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A CATALOGUE OF  
THE ELLIS COLLECTION  
OF  
ORNITHOLOGICAL BOOKS  
IN THE  
UNIVERSITY OF KANSAS LIBRARIES

Compiled by  
ROBERT M. MENGEL

Volume I  
A—B

Lawrence, Kansas  
1972

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Volume I  
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Lawrence, Kansas  
1972

DYCHE READING ROOM

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To the memory of Dr. Elliott Coues, nearly the first and certainly the greatest of ornithological bibliographers.

*Bibliography is a necessary nuisance  
and a horrible drudgery. . . . A good  
bibliographer is a kind of inspired  
idiot. . . .* Elliott Coues

# Table of Contents

Preface .....	ix
Biographical note .....	xv
Introduction .....	xix
References .....	xxvii
TEXT (A-B) .....	1-259

## Preface

The present work is a briefly descriptive, annotated catalogue of the ornithological books in the remarkable library of natural history privately assembled by the late Ralph N. Ellis, Jr. and now part of the Department of Special Collections in the Kenneth Spencer Research Library at the University of Kansas. This catalogue is a blend of ornithology, ornithological bibliography, and bibliography, in that order, because the author is an ornithologist by training and inclination, an ornithological bibliographer by necessity, and so much of a bibliographer as he may claim to be quite by accident.

The approach to the task of constructing the present catalogue has been made with reference to the whole field of ornithological literature, upon which a few reflections may be revealing.

Birds are especially conspicuous and popular animals, so that among zoological sciences in the taxonomic field ornithology is distinguished by the magnitude of a literature which increases at an appalling rate. Even in the 1870's, Elliott Coues, the last man to attempt a universal bibliography of ornithology, found the task beyond his singular powers of intellect and concentration, and after completing the four now classic installments of his *Ornithological Bibliography* wrote (*Osprey*, 1897:39-40): ". . . my machinery for doing the work broke down, and I found myself amidst the debris of the great plan I had projected." Coues' own efforts (see Wood, C. A., *Auk*, 1928:148; Coues, *loc. cit.*) to find a successor in his project failed, for rather evident reasons, and it is a little surprising that as late as 1927 so level-headed a man as Witmer Stone, long a capable editor of *The Auk*, could seriously regret (*Auk*, 1927:269-270) that "the energy and expenditure" devoted to Dr. Zimmer's *Catalogue of the Edward E. Ayer Ornithological Library* "could not have been devoted to a continuation of Coues' wonderful work, in which all papers dealing with ornithology would appear, instead of merely those published under an independent title or those contained in a particular library."

Today there is no escaping the fact that whatever universal bibliography of ornithology remains feasible has necessarily become the province of institutions, and must be carried on by such indispensable sources, limited as each may be in its own way, as *The Zoological Record* (1864- ) and *Biological Abstracts* (1926- ).

The individual bibliographer has been compelled to specialize; even R. M. Strong's fine *Bibliography of Birds*, the nearest approach since Coues to a universal ornithological bibliography and now terribly outdated, is far from complete. Purposely slighting the vast literature of systematics and ornithogeography, it is essentially a highly specialized finding index to the (chiefly)

periodical literature. Further specialized and similarly outdated—these and other sources are described more fully beyond—and each doing certain things better than any other, are the geographical bibliographies of W. H. Mullens and H. K. Swann (Great Britain), René Ronsil (France and French colonies), H. M. Whittell (Australia), and Joseph Grinnell (California); the systematic bibliographies of G. C. Low (Charadriiformes) and N. Kuroda (Anseriformes); the subject bibliographies of A. P. Gray (bird hybrids), J. C. Phillips (game birds), J. E. Harting (falconry), and Claus Nissen (illustrated bird books); and, finally, the catalogues of great ornithological libraries (these serve a number of needs not effectively met by other kinds, being able to devote far more space to rarities and to historical and bibliographic matters) such as those by Jean Anker (The University Library at Copenhagen), Casey A. Wood (McGill University libraries), and John T. Zimmer (Ayer Library, Chicago Museum of Natural History). In all of these together, with others not named, there is before us the start, if not of a universal bibliography, at least of a broad and pervasive coverage of the world's ornithological literature, from many standpoints and with many emphases. That this diversification of intent and authorship must lead to a certain amount of duplication is as evident as the need for more of it. A fact which fits in two systems is no less true or valuable for appearing in both.

The present descriptive catalogue belongs to the last specialized category named above. I have taken the first function of such a catalogue, when it commemorates the efforts of a given collector, to be the full and orderly description of his collection, with appropriate attention to bibliographic, aesthetic, and historical details. The catalogue thus reflects the interests and perceptions of the collector, appealing accordingly to others of similar tastes.

The definition of the catalogue being established, I have asked myself whom this catalogue might best serve.

First, I have hoped that at least on occasion it will aid the faculty and graduate students of the University of Kansas in their research. Watching the progress of seminars and other phases of graduate instruction, I have conceived ways in which it seemed to me such a catalogue might help in introducing the student to the broad outlines of ornithological knowledge, and in making more real to him the events, personalities, and books which have shaped the ornithological mountain on the top of which, at first all unknowing he finds himself. It has seemed to me that if we served ourselves truly in these aims, we could not fail to serve others too, since the Ellis Collection is sufficiently comprehensive to embrace a major portion of the project.

While keeping working and learning ornithologists uppermost in mind, and attempting to serve their needs as my own experience has suggested they might arise, I have attempted also to produce an instrument of potential

value to librarians, zoologists charged with library acquisition in their field, and private collectors—in short, all engaged in the selection and accumulation of ornithological books. I have likewise kept in mind the editor, grateful, as I know to be the case, for a means of checking titles and citations of books not available at his place of work. Finally I hope that antiquarian and out-of-print book dealers, serious bibliographers, and, in fact, anyone anywhere who is interested in birds and what has been written about them, will all find something of interest or value herein.

In attempting to serve so many, it is probable that I shall serve none to his complete satisfaction, a likelihood increased by the necessity of treating as nearly as possible under one system books from the earliest years of printing, products of the modern press, huge monographs of the 18th century, books for children, governmental surveys, and many more. This heterogeneous mass of material, having in common only the possession of some ornithological content, literally ranges from the ridiculous to the sublime, and the attainment of the dubious ideal of absolute consistency remains an unattainable mirage. At the same time, much widely scattered ornithological information has been brought together in one place.

The most important acknowledgment that I must make is a collective one to all of the patient, dedicated bibliographers and cataloguers of the past, without whose labors the present one would have been infinitely more difficult. While from time to time I have accepted the duty of correcting their inevitable errors,<sup>1</sup> I have done so with the uneasy suspicion that I am probably perpetrating at least one for each corrected. Although, in the interests of making the catalogue self-sufficient, I have borrowed unashamedly from my predecessors, I recognize that every serious student of ornithological literature will need to approach the subject armed with a full battery of bibliographies. The list of major references printed in this and ensuing volumes constitutes my detailed acknowledgment of these sources.

A more specific and extended acknowledgment of debt is necessary in the case of Zimmer's thorough *Catalogue of the Edward E. Ayer Ornithological Library*. Because this was prepared in response to a need more like the present one than any other, it is the source upon which I have most depended, and after which many features of the present catalogue have been patterned.

Disparate as it is possible, perhaps, to be, Ayer and Ellis nevertheless collected over much the same ground, and it early occurred to me that the degree of duplication between catalogues of the two collections would be such that the present catalogue could conveniently be restricted to gaps in the former and works published since its appearance. If further testimony to the com-

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<sup>1</sup> Or, in many instances, noting discrepancies which may indicate either error or actual differences among various copies of a given work.

plexity of ornithological and quasi-ornithological literature is needed, it is found in the fact that this proved not to be the case.

Indeed, so many differences were found, even between works ostensibly the same, that the amount of discussion and comparison called for was great enough to make it desirable to treat them all in full. There is, of course, some duplication, but users of the present work can only profit from the convenience of new and often more detailed treatment of those works which do indeed seem identical. It remains only to say that I have adopted a number of changes and additions, which I hope are improvements, to Zimmer's system, including some that he himself contemplated but was prevented by limitations of time from realizing, and others made possible only by prolonged, practical use of his work and by the evolution of bibliographic method over the last half-century.

Numerous individuals have facilitated the work. I am deeply indebted to Robert Vosper, former Director of Libraries, for much encouragement and support. For assistance of varied kinds I thank other past and present members of the Library staff, notably Thomas R. Buckman, Carol Chittenden, Earl Farley, John Glinka, Reginald Hennessey, John Nugent, Robert L. Quinsey and John Siedzik. For effective assistance under my own supervision I thank Donna Fitzroy, John William Hardy, Anne (Kyle) Kartogian, Charles Myles, and Kenneth Shields. E. Raymond Hall, Harrison B. Tordoff, and Richard F. Johnston, formerly or at present of the University of Kansas Museum of Natural History, have facilitated the project in numerous ways, and I have received helpful comments and suggestions at various times from several ornithological friends, notably the late Elsa G. Allen, Dean Amadon,<sup>2</sup> Herbert Friedmann, H. Bradley Martin, Alexander Wetmore, and the late John T. Zimmer. I am more in debt than I can say to Joseph Rubinstein, bookman, bibliographer, and former Head of the Department of Special Collections, for the free dispensation of an erudition surpassing belief, and for his unflagging efforts over several years to transmute the brass of ornithology into the gold of bibliography.

The translation of manuscript into printed book has been the burden and responsibility of Alexandra Mason and James Helyar. Miss Mason, Assistant Director of Libraries with special responsibility for the Division of Special Collections, has taken a large share in editing the manuscript for publication and in seeing this volume through the press, and in particular has been solely responsible for the editing and revision of the bibliographic descriptions. Mr. Helyar, Assistant Director of Libraries and Editor of Library Publications,

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<sup>2</sup>To Dr. Amadon I am indebted also for a transcript of Dr. Zimmer's manuscript corrections to his own copy of his *Catalogue of the Edward E. Ayer Ornithological Library*.

was instrumental in achieving publication of the Catalogue, and has carried through the editing, design and production of the finished work.

ROBERT MENGEL  
Lawrence, Kansas  
February 20, 1972

## Biographical Note

Ralph Nicholson Ellis, Jr., the only child of Ralph N. and Elizabeth Warder Ellis, was born at Jericho, Nassau County, New York, in the Town of Oyster Bay (Long Island), on June 15, 1908. He died 38 years later, on December 17, 1945, leaving as his monument the ornithological library to which the present catalogue is devoted.

The inclusion of a brief biography is traditional in catalogues of the present kind. I have assumed the task of preparing this one with marked hesitation, less because I did not know Ellis personally<sup>1</sup> than for reasons soon to become evident. Although I never met him, I have of course formed a mental image, shaped partly by the collection he made, with the notations and other evidences of his individuality found therein, partly by the voluminous files he left, and most definitely by the colorful reminiscences of many who did know him in various capacities.

There was something about Ralph Ellis that made people want to talk, and that still brings forth a tide of reminiscence a quarter of a century later. On the surface, he seems to have been a wholly cantankerous perennial child, alternately irascible and ungovernable, contrite and repentant; below the surface, a tormented individual whose chief and perhaps only real compensation was the collecting of books. Throughout his essentially tragic life he was organically sick; a lesser monument than the impressive library formed would have sufficed to reveal the personal force that might, in happier circumstances, have resulted in distinguished achievement of greater duration and variety.

Ralph's parents were well-to-do people of some cultivation, but a childhood attended by conspicuous advantages of environment and opportunity was early blighted by the onset of a painful and unusual blood disease thought to be agranulocytosis—perhaps the only chronic case known at the time.<sup>2</sup> This remained with him always, causing him to be seriously incapacitated for several days about every three weeks. It is probable that the effects of this illness, no less than the parental indulgence it seems to have occasioned, played a major part in shaping his personality.

In addition to the Jericho estate, the family owned property in Kershaw County, South Carolina, and Berkeley, California, and to the latter Ralph moved with his mother in 1921, while his father remained for the most part in New York where business interests engaged his attention.

The first Berkeley residence of the Ellises, at 2237 Hearst Avenue, was

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<sup>1</sup> For much background information I am indebted to Adrey E. Borell, E. Raymond Hall, and the late Harry Harris.

<sup>2</sup> For a clinical summary of the first 19 years of Ralph's illness, and one leaving no doubt as to its wretchedness, see Rutledge, Hansen-Prüss, and Thayer, *Bull. Johns Hopkins Hospital*, 46:369-389, June, 1930.

burned in the great fire of September 9, 1923, and the family moved at once to 2420 Ridge Road, which was to be Ralph's address through most of his adult life, and the one from which his book collecting was carried on.

By the time he was 10 years old, Ralph displayed a strong interest in birds and mammals, which his parents encouraged. Whether or not they regarded zoology as a constructive activity I do not know, but it provided an outlet for Ralph's restless energies, and by the time he was 15 he was an active amateur bird-student and collector. A long letter to his father (October 4, 1923), written shortly after the fire, is devoted mainly to birds and to Ralph's concern that his specimens might have been destroyed, as indeed some of them were.

Plagued as he was by illness, Ralph's formal schooling was erratic, being accomplished mainly by tutors, short enrollments in various schools, including the Evans School for Boys at Tucson, Arizona, and the Cora Williams School at Berkeley, and several brief, illness-ridden semesters at the University of California in 1928, 1929, and 1930. So far as his avocation was concerned, until 1928 the young naturalist was self-taught.

In that year, Ralph's hobby having assumed proportions which must have seemed formidable, his mother engaged a tutor-companion to instruct him in field natural history. For this assignment she selected Adrey E. Borell, a graduate student in zoology at the University of California. A good naturalist, of easy disposition, strong and level-headed, Borell was well-fitted for duties which proved to be varied and extensive. There is no doubt that whatever proficiency Ralph attained in natural history resulted largely from his formal association with Borell, and he must have learned other important lessons from his mentor as well, one of the earlier provided by an enforced immersion, fully clothed, at the height of a childish tantrum, into a bathtub filled with icy Berkeley tapwater. In any event, he became strongly attached to Borell, continuing their association intermittently for years after their formal relationship was terminated.

With the help of Borell and others, Ellis accumulated a collection of several thousand specimens<sup>3</sup> of birds and mammals, obtained on numerous field trips in the far western states, and authored a number of short notes and papers, the most important, in collaboration with Borell,<sup>4</sup> being "Mammals of the Ruby Mountains region of north-eastern Nevada" (*Jour. Mammalogy*, 15:12-44, plates 1-6, February, 1934). His most ambitious zoological venture was his participation in 1931 and 1932 in an expedition to Australia conducted

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<sup>3</sup> Birds now in the Museum of Vertebrate Zoology, University of California; mammals in the University of Kansas Museum of Natural History. Commentary on Ellis's mammal collection may be found in *The recent mammals of Idaho* by W. B. Davis (Caxton Publs., Ltd., Caldwell, Idaho, 1939) and *The mammals of Nevada* by E. R. Hall (Univ. of California Press, Berkeley, 1936).

<sup>4</sup> Borell's contract provided that, as senior and instructor, he should be first author of joint publications.

by the Museum of Comparative Zoology at Harvard University.<sup>5</sup> His connection with this enterprise, however, was severed at the half-way mark, following difficulties arising from his always uncertain health. In this case, so the correspondence shows, Ralph's concepts of his own needs differed widely from those jointly held by Dr. Thomas Barbour (then Director of the Museum), his mother, and his attendant physician.

In fact, Ralph Ellis seems to have been unsuited both by health and temperament for an auspicious career in zoological science. Aside from obvious deficiencies in stamina and the failure to conclude a formal education, he seems to have lacked the tolerance for drudgery and sustained work essential in any field of research. This being the case, it is fortunate that a natural interest in the literature of the subjects which themselves first secured his attention gradually grew to replace the subject.

It is difficult to say just when bibliomania (which is what it seems to have approached) first overtook ornithology, but it was probably around 1935, in which year we see him pencilling "before 1935" in all of his books, then by generous estimate perhaps 5,000 in number. Thereafter details of purchase and sundry bibliographical notes were entered faithfully in nearly every acquisition, and for the next ten years these came in at an average rate of 2,000 per year, or roughly 165 each month.

In book-collecting Ellis seems to have found himself; the lack of patience and physique which prevented his functioning as a naturalist were more than compensated for by a great if sporadic energy, a tenacious memory, and a highly-developed collecting instinct.

Ellis did most of his purchasing through American and British dealers, and also bought from and traded with other private collectors, notably the late Seth Guion, of New Orleans, and the late Harry Harris, capable ornithological bibliographer and historian, from whom Ralph received much valuable bibliographical lore.

Whenever possible he acquired entire libraries intact, among them those of the well-known zoologists E. C. Stuart-Baker and C. Hart Merriam. In 1936 and 1937, his two most active collecting years, he spent nearly 18 months in England, where the majority of his finest acquisitions were made. While in London he participated, on August 26, 1936, in the first general meeting of the Society for the Bibliography of Natural History, of which he was a founder (see *Jour. Soc. Bibl. Nat. Hist.*, 1:IX, 1936), and on November 26, 1936, was elected a Fellow of the Linnean Society of London.<sup>6</sup>

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<sup>5</sup> Sailing from Los Angeles, July 19, 1931: W. M. Wheeler (in charge), Glover M. Allen, P. J. Darlington, W. E. Scheville, Ira Dixson (physician), and Ralph Ellis.

<sup>6</sup> Obituary by E. R. Hall, *Proc. Linn. Soc. London*, session 159, 1946-47, pt. 2, pp. 158-159, 30 December 1947. For another obituary see *Auk*, 1948: 341-342 (T. S. Palmer).

In March, 1945, Ellis and his wife<sup>7</sup> took up residence in Lawrence, Kansas, where Ralph had reached an agreement with the University of Kansas to house his library, this in response to an invitation by Dr. E. Raymond Hall, Director of the Museum of Natural History and an acquaintance from Berkeley days. Ellis had been in Lawrence but a few months, time only to set about shelving his books and to resume his collecting, when he returned to California on a short hunting trip. On December 17, 1945, he died alone in a hotel near Colusa, California, of pneumonia.

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<sup>7</sup> Irene Sibell Ellis, to whom he was married on November 27, 1943. An earlier marriage, to Janet Ronneberg on December 16, 1934, was concluded by divorce on September 1, 1939. There were no children.

# Introduction

*Scope*—This catalogue includes all books with appreciable ornithological content which were acquired by Ralph Ellis as well as those bird books published before Ellis' death (December 1945) which have been added to the collection by the University Libraries. Some items which are less than purely ornithological have been included, thereby recapturing for ornithology much that might otherwise remain indefinitely obscure; for example, works on falconry and game management, which often contain essentially ornithological matter, are included, but works on poultry, pigeon culture, etc., are generally excluded.

The word "book" is difficult to define. I have used Zimmer's criteria, with little change. His catalogue was "restricted . . . to books and papers which stand apart so as to require citation by title . . . and omits [see beyond] numbered bulletins . . . and extracts from periodicals and serials; exceptions are made in the case of some of the more important papers dealing with the bird life of the entire United States or of the separate states within it." I have slightly increased the latitude of the exceptions just mentioned, to include papers dealing with the bird life of any country, large state, or major island, or comparable units, exceeding 75 pages, and complete in themselves (*e.g.*, *U.S. National Museum Bulletins*). In general, even the most important papers, in other categories, in the serial and periodical literature have been omitted. The great number of these, unfortunately, makes their omission a necessity, even though much of the most important ornithological literature is thus passed over.

Works comprising several volumes, but only partly ornithological, have sometimes been treated in full and sometimes only in their ornithological portions, the decision in each case being dictated by the nature of the material.

*Entry and sequence of works*—The general arrangement of works is alphabetical by author and chronological under author. The "author" may be an individual, two or three co-authors, a committee, or a corporate body. When individual authorship is known, the work is entered under the name(s) of the individual(s) concerned, even when produced under corporate sponsorship (thus the many volumes of the British Museum "Catalogue of Birds" will be treated separately under their respective authors). While this differs somewhat from standard library practice, it has advantages for zoologists, who think in terms of men rather than institutions; cross-references will ultimately be provided in the index for those accustomed to think of "United States. Pacific Railroad Surveys" rather than "Baird, Cassin, and Lawrence." Works authored by committee, however, are entered under the name of the

sponsoring organization, if any, or the editor, or the chairman of the committee.

Authorial combinations, with rare exceptions, are treated as distinct units, hence works by Baird, Brewer, and Ridgway follow those by Baird, regardless of date, and Baird, Cassin and Lawrence comes after Baird, Brewer, and Ridgway.

Each work receives a number, which appears in the margin opposite the date of publication.

Distinct and separate works by given authors appear in chronological order; however, where some of these have later editions, issues, or impressions these appear, also in chronological order, immediately after their predecessors. Their subsidiary nature should be evident, since descriptions are usually shortened by appropriate comparison with the earliest edition entered (or, when explicitly stated, by comparison with another). Translations are placed last, regardless of date.

*Authors' names and dates*—I have attempted to supply the full name and life-dates of each author, using many standard and miscellaneous biographical and professional sources. These sources have not as a rule been cited (though they are frequently suggested in the list of references at the end of each account); a wealth of biographical information is already available in various well-known sources, notably Claus Nissen's informative *Die illustrierten Vogelbücher*, and Mullens and Swann's *A bibliography of British ornithology*.

Authors' full names are not always those they use by choice; the latter are usually made evident by the titles themselves. When an author's name changes in his lifetime, entry is made under the latest known name, earlier names being dealt with in cross-reference. The life-dates of authors appear in parentheses following their names; insertion in main entries, however, of the life-dates of co-authors is awkward; their dates will accordingly be found under works of which they are sole or first authors or, lacking these, in their index entries.

*Indices*—Since this work must be published in parts, many cross-references cannot be made at the appropriate points in text. It is hoped that the appendices to the work, therefore, will ultimately contain, among other things, indices to co-authors and other contributors, to artists, to major voyages, ships, etc., and to corporate entries of works entered under individual authorship.

From time to time reference is made in the discussion of one work to others in some way related to it. When these are present in the collection, reference is made by number unless the works are to appear in a later volume.

*Description*—Because of the varied nature of the collection, as well as practical limitations, bibliographical description ranges from minimal for minor works to fairly extensive for bibliographically interesting books.

After entry by author and dates, the account of each work ordinarily consists of five parts: title; collation; contents; discussion; and a list of references.

Dates of publication are entered to the left of the first line of title. The dates are those of actual publication according to present knowledge. I have dispensed, as did Zimmer, with the convention of placing these dates in square brackets when determined from extrinsic sources (*i.e.*, evidence other than dates on title-pages), because such determination is usually evident from the adjacent transcription of title, and is invariably discussed in the appropriate section following.

Sherborn and others have been at great pains to determine the exact dates of publication of the individual parts, livraisons, fasciculi, etc., of many zoological works published in installments, and Zimmer added considerable new matter relative to ornithology. On ground not previously covered I have done likewise when opportunity permitted. In the cases of datings already established by others, I have reproduced the details when not too lengthy (abbreviating or correcting them in some cases), but have cited appropriate sources when very long passages were involved.

Titles are transcribed exactly as regards wording, punctuation, and arrangement by lines (the ends of which are indicated by oblique strokes), but long lists of honors and the like have been cut short and indicated in square brackets, *viz.* [*Etc. 5 lines*]. Conspicuous decorations, quotations, etc., are handled in the same way; *all matter of my own inserted within titles appears in brackets and in italics*. No attempt has been made to reproduce typefaces. Capitalization has been followed exactly when there was anything to follow; otherwise (*i.e.*, when passages appear entirely in capitals) I have followed my own concept of correct usage in the language involved. Recommended brief titles are indicated by boldface type.

In simple cases, works occupying more than one volume have been handled with the system used by Zimmer, so: “. . . the first title is used as the standard. This is transcribed like the title of a single volume while the changes which occur from line to line in succeeding numbers are noted or transcribed (in brackets) with an indication (where necessary) of the volume in which the changes appear; the differentiae of the various volumes, where they occur within the same brackets, are separated by semicolons. For example: “With five [four (*Vol. II*); three (*Vol. III*)] colored plates. [Line omitted (*Vol. IV*)] / .” Experience has indicated, however, that in complex cases this system becomes intolerably abstruse. In such cases, therefore, after a few words of explanation, the title of each volume is transcribed (these are usually identified by volume numbers within themselves), with those lines identical with the corresponding lines of the first volume (unless otherwise

specified) being indicated as [*Idem, 7 lines*] / Volume II. / (etc., etc.). In a few difficult cases, e.g., Bannerman's *Birds of tropical west Africa*, matters have been explained in full.

Further following Zimmer: "If the transcription has been made from outside sources [usually identified] in the absence of an available original title-page, the entire title is enclosed in . . . brackets. If the book is without any published title, a descriptive one has been created."

Still further: "The sign > (greater than), as used here, separates a title from a following subtitle. It is also used before a subtitle or subordinate title if the full title is not given, or before the full title if the volume quoted is not the first in the series to which it belongs." I have not had occasion to use the sign < (less than) as defined by Zimmer.

Leaf size is directly stated, in centimeters, vertical dimension first, with note if untrimmed. The measurements follow a statement of bibliographical format determined from the volume itself.<sup>1</sup> No attempt has been made to note the exact species of original sheet (as "flatcap, foolscap, post, imperial," etc.) save in those few cases where this information is of particular significance (e.g., certain works of Thomas Bewick).

Immediately following the statement of format and size is the statement of pagination and illustration. The degree of detail employed in the pagination statement varies directly with the complexity of the book. A simple, straightforward book which follows normal conventions (e.g., no page numbers for title and part of the prefatory matter although these pages are taken into account by the numbering system) is usually described without resort to square brackets, italicized numbers, and other appurtenances of full-dress description, and no notice is taken of final un-numbered blanks. Whenever irregularity (or the suspicion of it) or complexity occurs in the book I have followed the conventions of fuller description, extending sequences of pagination within square brackets, recording irregularities of numbering as they occur, indicating by italicized totals within brackets those groups of pages whose pagination cannot be inferred, attempting to account in the pagination statement for every leaf which passed through the press, including final un-numbered blanks.

Separated from the statement of pagination by a semicolon is the statement of illustrations. The illustrations, if un-numbered, are described as a total (e.g., 30 plates), and, if numbered, as a sequence (e.g., plates 1-30).

The manner in which illustrative matter has been reproduced has been

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<sup>1</sup>For full discussion of formats, see R. B. McKerrow's *An Introduction to Bibliography for Literary Students*, Oxford, Clarendon Press, 1928. It may be mentioned here that modern, mechanical methods of printing have resulted in many formats unrepresented in the classical series, as well as in the complete impossibility of identifying some of the others. I have generally followed those authorities who recommend dispensing with mention of format in such cases.

indicated in parentheses, but the great variety of processes has necessitated some flexibility. In general, lithographed literally means on stone; engraved means incised in steel or copper; half-tone means the modern, photographic, half-tone process, while photographic means a photograph (probably reproduced by the half-tone process). Colored, applied unmodified to modern works, implies some method of modern photographic reproduction; when modified (as "lith., col.," ) it means colored by hand. Chromolithographed refers to a process historically intermediate between coloring by hand and photographic color-separation processes.

The term plate has been restricted to mean a leaf or sheet apart from but inserted in the text, classically, but not always, printed on one side only; variations have been handled with regard to the particular situation.

Description by signatures has been made in a separate paragraph in the case of most books published before 1800 and of many complex books published after that date. The conventions employed are those described in Fredson Bowers' *Principles of Bibliographical Description*, Princeton, 1949.

Following the collation is a description of contents. The purpose of this section is to give, at the least, a list of the basic divisions into which the subject matter of the book is divided, with an indication of the nature and extent of the more important, especially if ornithological. For important and complex books of special bibliographical interest, description approaches a leaf-by-leaf and page-by-page accounting of contents. Even if desirable, it would be impractical to provide this treatment for more than a few works. While the degree of completeness of a description should be self-evident in most cases, nothing should be read into the description which is not already there. It is safe only to conclude that pages or leaves unaccounted for in moderately complete descriptions are either blank or contain matter of minimal importance for the purposes at hand.<sup>2</sup> Truly complete description, of course, is readily identifiable as such by its accounting for every page. In listings of signatures the bare "A-Z3" (for example) may safely be assumed to mean the same as "A1<sup>r</sup>-Z3<sup>v</sup>," that is, that the matter under consideration begins on the recto of the first leaf of signature A and ends on the verso of the third leaf of signature Z. I have, however, supplied complete notations whenever the beginnings or ends of matter under consideration are irregularly placed (or where there might be some doubt).

Consistency in the identification of textual components is virtually impossible to achieve short of the full transcription of all textual headings. There

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<sup>2</sup>For example, when in a brief description there appears (more briefly) "Half-title; title;" or (less briefly) "Half-title, p. i; title, p. iii," or "Half-title, 1 leaf; title, 1 leaf," the assumption is justified that half-title and title appear consecutively, on the normal recto sides of their respective leaves, and that the versos, while quite probably blank, may (unless it is otherwise stated) contain minor matter of some kind.

is a defensible tendency, for example, to preserve the German *Vorbericht*, or *Nachricht*, rather than translate them to their nearest but perhaps not precise English equivalents. That I have done both may owe partly to caprice, but stems in part from variations in the subtle, somewhat subjective feeling of fitness one inevitably forms when handling a book. In general, the more elaborate books have their important sections identified more or less as they are in the language in question but these should not be taken as exact unless surrounded by quotation marks (although, if short, they may be so in fact). The introduction of many quotation marks around short phrases has a tendency to clutter a page to the point of distraction, with little attendant gain. In all of the above matters, while working toward it in principle, I have despaired of attaining absolute consistency; my single inflexible aim has been that each description be correct and workable, so far as it goes.

Following the descriptive portion of each account, I have attempted, variously as seemed appropriate, to identify the edition and issue in hand; to clarify the history of publication of the work; to note any interesting peculiarities of the copy examined, including important provenance; and to establish its relation to ornithological history and its impact, if any, on ornithology.

Where ornithological nomenclature has been used in descriptions I have tried to make it self-evident when the names are those used in the work under review (which often differ from names in current use), and have occasionally given the authority upon which the author's nomenclature was based. When I have supplied current nomenclature (often parenthetically) I have hoped that this was also self-evident. In this case I have followed Wetmore for the orders and families (A. Wetmore, "A classification for the birds of the world," *Smiths. Misc. Colls.*, v. 139, no. 11, 1 leaf plus pp. 1-37, June 23, 1960), and Peters (as continued by Greenway, Mayr, *et al.*) for the names of genera and species through the family Mimidae (J. L. Peters, *et al.*, *Check-list of birds of the world*, vols. I-VIII, Cambridge, Harvard Univ. Press, 1931-1960). For names beyond the Mimidae I have followed Cory, Hellmayr, and Conover where appropriate, and such regional standards as the A.O.U. and B.O.U. Check-Lists, Selater's *Systema avium Aethiopicarum*, London, 1924-30, etc., as necessary. It has seemed unimportant to seek out and update the very few names that might be affected by changes incorporated in those volumes of Peters appearing since work on this manuscript was completed.

A list of references appears at the end of nearly every account, those authorities cited in the text being included. Works cited occasionally are usually identified in full; those referred to more frequently are indicated by abbreviations or key-words, followed by the pages cited or by the catalogue number (*e.g.*, Nissen, 32, means entry number 32 in Nissen's *Die illustrierten Vogelbücher*, while Zimmer, 116, means p.116 in Zimmer's unnumbered

catalogue of the Ayer Library). References in the terminal list are not necessarily cited in the preceding discussion; often they supply additional information pertinent to the book under examination, if only to indicate the location of other copies. When a work consists of many editions, references pertinent to all or most will usually be found under the first entered; those following later entries are generally of more specific relevance.

While literary and technical criticism are not properly bibliographical tasks, various bibliographies and catalogues, ornithological and otherwise, have combined them with bibliography. Bibliography is essentially objective, while criticism is subjective. Only after considerable thought and hesitation, therefore, did I decide to include my own value judgments. Mature ornithologists, like scientists in other fields, are frequently competent critics and historians in their own specialty. I do not expect that their opinions will, in every case, coincide with my own, or that my own are equally valid in all of the many facets of ornithology; wherever a basis of prior critical judgment exists I have attempted to indicate or at least to cite it. The inclusion of all of this critical matter, however, has been chiefly for the benefit of various non-ornithological users of this catalogue and for comparative beginners in the field, upon all of whom I urge the truth that no critical judgment is final, but that all are of some value in arriving at a reasoned personal conviction.

# References

Arranged as cited by abbreviation in Volume I.

- Agassiz *Bibliographia zoologiæ et geologiæ*. By Prof. Louis Agassiz, ed. by H. E. Strickland. London, Ray Society, 1848-54. 4 vols.
- Allen *The history of American ornithology before Audubon*. By Elsa Guerdrum Allen. Philadelphia, American Philosophical Society, 1951. (Transactions of the American Philosophical Society, new series, 41(3):385-591, Oct. 1951).
- Anker *Bird books and bird art*. By Jean Anker. Copenhagen, Levin & Munksgaard, 1938.
- BMC *British Museum General catalogue of printed books*. London, British Museum, 1959-1966. 263 vols.
- BMNH *Catalogue of the books, manuscripts, maps and drawings in the British Museum (Natural History)*. London, the Trustees, 1903-15. 5 vols. With *Supplement*, 1922-40. 3 vols.
- Carus and Engelmann *Bibliotheca zoologica . . . 1846-1860*. Bearb. von J. Victor Carus und Wilhelm Engelmann. Leipzig, Wilhelm Engelmann, 1861. 2 vols.
- Church *A catalogue of books relating to the discovery and early history of North and South America forming a part of the library of E. D. Church*. Comp. by George Watson Cole. New York, Dodd, Mead, 1907. 5 vols.
- Coe *Ornithological books in the Yale University Library including the library of William Robertson Coe*. Comp. by S. Dillon Ripley and Lynette L. Scribner. New Haven, Yale University Press, 1961.
- Coues [*Ornithological bibliography*] By Dr. Elliott Coues. Washington, 1878-80. 4 parts.
- Cox *A reference guide to the literature of travel*. By Edward Godfrey Cox. Seattle, University of Washington, 1935, 1938. Vols. 1 and 2 only cited.
- DNB *The dictionary of national biography*. London, Oxford University Press [1921-22]. 22 vols.
- Engelmann *Bibliotheca historico-naturalis . . . 1700-1846*. Von Wilhelm Engelmann. Leipzig, Wilhelm Engelmann, 1846.
- GKW *Gesamt-katalog der Wiegendrucke*. Zweite Auflage. Stuttgart, New York, Anton Hiersemann/H. P. Kraus, 1968. 7 vols.
- Goff *Incunabula in American libraries*. Comp. by Frederick R. Goff. New York, The Bibliographical Society of America, 1964.
- Grässe *Trésor de livres rares et précieux*. Par Jean George Théodore Graesse. Dresde, R. Kuntze, 1859-69. 8 vols.
- Grinnell *A bibliography of California ornithology*, by Joseph Grinnell. Santa Clara, Cooper Ornithological Club, 1909-39. 3 vols.
- Harting *Bibliotheca accipitraria*. By James Edmund Harting. London, Bernard Quaritch, 1891.

- HCL, French 16th *Harvard College Library Department of Printing and Graphic Arts Catalogue of books and manuscripts. Part I: French 16th century books.* Comp. by Ruth Mortimer. Cambridge, Mass., The Belknap Press of Harvard University Press, 1964. 2 vols.
- Heinsius *Allgemeines Bücherlexikon . . . 1700 bis zu ende [1892].* Von Wilhelm Heinsius. Leipzig, J. F. Gleditsch [etc.], 1812-94. 19 vols.
- Herrick *Audubon the naturalist.* By Francis Hobart Herrick. New York, D. Appleton and Company, 1917. 2 vols.
- Irwin *British bird books: an index to British ornithology, A.D. 1481 to A.D. 1948.* By Raymond Irwin. London, Grafton, 1951.
- Mathews *Bibliography of the birds of Australia.* By Gregory M. Mathews. London, H. F. & G. Witherby, 1925.
- Meisel *A bibliography of American natural history; the pioneer century: 1769-1865.* By Max Meisel. Brooklyn, Premier Publishing Co., 1924-29. 3 vols.
- Mullens and Swann *A bibliography of British ornithology from the earliest times to the end of 1912.* By W. H. Mullens and H. Kirke Swann. London, Macmillan, 1917. With *Supplement. A chronological list of British birds*, by H. Kirke Swann. London, Wheldon & Wesley, 1923.
- Newton *A dictionary of birds*, by Alfred Newton. London, Adam and Charles Black, 1896.
- Nissen *Die illustrierten Vogelbücher.* [Von] Claus Nissen. Stuttgart, Hiersemann, 1953.
- Nordenskiöld *The history of biology.* By Erik Nordenskiöld. New York, Alfred A. Knopf, 1932.
- Osler *Bibliotheca Osleriana, a catalogue of books . . . collected, arranged, and annotated by Sir William Osler.* Oxford, Clarendon Press, 1929.
- Ronsil *Bibliographie ornithologique française . . . 1473 à 1944*, par René Ronsil. Paris, Paul Lechavalier, 1948-49. 2 vols.
- Roscoe *Thomas Bewick, a bibliography raisonné of editions of the General History of Quadrupeds, the History of British Birds, and the Fables of Aesop issued in his lifetime.* [By] S. Roscoe. London, Oxford University Press, 1953.
- Sabin *Bibliotheca americana.* By Joseph Sabin. New York, 1868-1936. 29 vols.
- Schwerdt *Hunting, hawking, shooting illustrated in a catalogue of books, manuscripts, prints and drawings collected by C. F. G. R. Schwerdt.* London, Privately printed, 1928-37. 4 vols.
- Sitwell, Buchanan, and Fisher *Fine bird books, 1700-1900*, by Sacheverell Sitwell, Handasyde Buchanan and James Fisher. London, New York, Collins & Van Nostrand, 1953.
- STC *A short-title catalogue of books printed in England, Scotland, & Ireland and of English books printed abroad 1475-1640.* Comp. by A. W. Pollard & G. R. Redgrave. London, The Bibliographical Society, 1926.
- Stresemann *Die Entwicklung der Ornithologie von Aristoteles bis zur Gegenwart.* [Von] Erwin Stresemann. Berlin, F. W. Peters, 1951.

- Strong *A bibliography of birds.* By Reuben Myron Strong. Chicago, Field Museum of Natural History, 1939-59. 4 vols.
- Taschenberg *Bibliotheca zoologica II. . . . 1861-1880.* Bearb. von Dr. O. Taschenberg. Leipzig, W. Engelmann, 1887-1923. 8 vols.
- Thayer *Catalogue of a collection of books on ornithology in the library of John E. Thayer,* comp. by Evelyn Thayer and Virginia Keyes. Boston, Privately printed, 1913.
- Whittell *The literature of Australian birds.* By Hubert Massey Whittell. Perth, Western Australia, Paterson Brokensha Pty. Ltd., 1954.
- Wood *An introduction to the literature of vertebrate zoology.* Comp. by Casey A. Wood. London, Oxford University Press, 1931.
- Zimmer *Catalogue of the Edward E. Ayer ornithological library,* by John Todd Zimmer. Chicago, Field Museum of Natural History, 1926. 2 vols.
- Zoological Record *The zoological record,* vol. 1- 1864- London, J. Van Voorst, 1865-
- ZSL *Catalogue of the library of the Zoological Society of London.* 5th ed. [Prepared by F. H. Waterhouse]. London, Taylor and Francis, 1902.

ABBOTT, CHARLES CONRAD (1843-1919)<sup>1</sup>

1. 1884. *A naturalist's / rambles about home.* / By / Charles C. Abbott. / New York: / D. Appleton and Company, / 1, 3, and 5 Bond Street. / 1884.

12mo (19.0 × 12.6 cm). Pp. 1-485 [486], [6].

*Contents*—Title, conts., introd. remarks, pp. 1-15; text, pp. 17-445, in chapters I-XXXVII (chapters XXII-XXVII, pp. 93-241, ornith.); appendix, pp. 447-479, a "List of the mammals, birds [pp. 451-475], reptiles, batrachians, and fishes of Mercer County, New Jersey"; index, pp. 481-485; advt., 6 pp.

Besides an assortment of factual records of wild life, mainly in the vicinity of Trenton, New Jersey, this popularly written work contains much theory and conjecture. A second and somewhat revised version appeared in 1887 (*cf.* Zimmer, 1).

Wood, 175. Reviewed: *Auk*, 1885:86-88 (J. A. Allen, crit.).

2. 1895. *The Birds / About Us* / By / Charles Conrad Abbott, M.D. / Author of Recent Rambles / Travels in a Tree-Top, etc. / [*Col. vign.*] / London / Elkin Mathews, Vigo Street / 1895.

8vo (20.1 × 12.8 cm). Pp. [2] i-xi [xii], 9-288; front. (wanting), 23 plates, 49 text-figs.

*Contents*—Title; pref. to second edit. (dated at Trenton, New Jersey, January 1895); conts.; list of illustrs.; introd.; text, in chapters I-XV, being a popularly-written general commentary on North American birds, arranged by groups; index.

A rambling and trivial work. Notwithstanding the inclusion of the preface to the "second edition," I find no record of an earlier version of the work, unless an American one (imprint: Philadelphia, J. B. Lippincott) referred to by Wood, also under date of 1895, was issued earlier than British copies. The last is not improbable; it is improbable that the type is different. The plates are seemingly based mainly upon Audubon.

Wood, 175. Reviewed: *Auk*, 1895:67-69 (Witmer Stone).

## ABBOTT, CLINTON GILBERT (1881-1946)

3. 1911. *The home-life / of / the Osprey / photographed and described / by / Clinton G. Abbott, B.A. / Associate of the American Ornithologists' Union / with some photographs by Howard H. Cleaves, Associate of / The American Ornithologists' Union. / With thirty-two mounted plates / London / Witherby & Co. 326 High Holborn W.C. / MCMXI.*

8vo (25.3 × 19.0 cm). Pp. 1-54; plates 1-32 (42 photos.).

*Contents*—Half-title; title; list of plates; text, pp. 7-54, being observations of the life-history of the Osprey made principally at Gardiner's Island, New York.

A contribution to knowledge of the subject. Part of the "Bird Lovers' Home-Life Series." Bookplate of Lord Berkeley Paget.

Wood, 175. Reviewed: *Auk*, 1912:125 (J. A. Allen).

<sup>1</sup>Date of death given by Wood as 1911; according to the Ten-year Index to *The Auk*, 1911-20 (p. ix) it is July 28, 1919.

ABBOTT, FRANCES MATILDA (1857- )

4. 1906. *Birds and flowers / about / Concord, New Hampshire / By / Frances M. Abbott / [Orn.] / [Poem, 5 lines.] / Concord, New Hampshire / Rumford Printing Company / Nineteen Hundred and Six.*

8vo (17.2 × 13.0 cm). Pp. [8] [i-vii] viii-xxi [xxii-xxiv] 1-140 [141-142].

*Contents*—4 blank leaves; title; ded.; conts.; prologue; hints for beginners; books for nature lovers; local (geographic) names; text, pp. 1-119, devoted to birds (pp. 1-74; with popular essays on common birds, a “List of birds about Concord,” including 110 species with short notes, and a list of 91 species “seen by other observers”) and flowers; index to flowers, pp. 121-140; poem (ornith.), p. [141].

The work seems to have escaped notice in ornithological journals. The annotated lists may be of some interest to New England ornithologists and historians, but this might not be great since the appearance of Ludlow Griscom’s authoritative *The Birds of Concord. A study in population trends.* (Cambridge, Harvard Univ. Press, 1949).

Wood, 175.

ACADEMIE DES SCIENCES DE PARIS

5. 1676. *Memoires / pour servir / a l’histoire naturelle / des animaux. / Dressez par M. Perrault, de l’Academie Royale des Sciences, / & Medicin de la Faculte de Paris. / [Device] / A Paris, / de l’Imprimerie Royale. / M.D.C.LXXVI.*

Broadsheet (55.0 × 41.0 cm). Pp. [14], 1-205 [206-208]; engr. front., 30 engr. plates (by S. LeClerc; 9 ornith.), 21 engr. tail-pieces, decors., etc.

*Sigs.*—[\*]<sup>1</sup> \*\*\*<sup>1</sup> ā<sup>1</sup> ē<sup>1</sup> î<sup>1</sup> ô<sup>1</sup> [û]<sup>1</sup> A-5M<sup>1</sup>; 111 leaves. Signature G misprinted as F and corrected by printed label.

*Contents*—Title, [\*]<sup>r</sup> (v. blank); “avertissement,” \*\*\*<sup>r-v</sup>; preface, ā<sup>r</sup>-ō<sup>v</sup>; “Explication de la figure du Lion,” [û]<sup>v</sup> (r. blank; remaining explanations of plates occurring throughout, are paged in the text); text (including that of the “Suite des memoires”), A-5L<sup>r</sup> (pp. 1-205), consisting of 28 accounts of the gross anatomy of various mammals, birds, and reptiles, each account illustrated by a plate or plates (30 in all), with accompanying explanations (“explications des figures”) facing, showing both the entire animal and internal details; table of animals, 5L<sup>r</sup>-5M<sup>r</sup>; colophon, 5M<sup>v</sup>. Eight accounts (pp. 102-107, 134-191) and nine plates deal with birds, these being (I translate and infer, variously) a cormorant, guinea fowl, eagle, “Indian cock” (said to be from Africa but resembling a New World curassow, *Crax* sp.), bustard, demoiselle crane, ostrich (2 plates), and cassowary.<sup>1</sup>

An early French work in anatomy, sponsored by the Academy, edited and/or written by Claude Perrault, and based, according to its *avertissement*, upon dissections of various animals by du Verney, Pequet, and Gayant, and perhaps others. Some of the “mémoires” (see BMNH) were published at Paris at least as early as 1669, and from 1671 to 1676 there appeared an augmented version in two parts, the second entitled *Suite des mémoires*. The Ellis copy is probably the 1676 reissue of both parts in one described by Graesse (vol. 5, p. 206). The title-page for the separate edition

<sup>1</sup>Determination to species may not be possible in every case; 2 or more species may figure in some units.

of *Suite des mémoires* has been bound in following 2Z. According to BMNH the work was published again, further enlarged, in 1733-1734. The edition in hand seems to be the probable basis for the first English edition of 1688, assuming a version of the latter dated 1701 (No. 6) to be, as stated by BMNH, a reissue of the 1688 edition with new title and other minor changes. The plates of the present edition are much superior to the reduced copies appearing in the translation.

BMC, 187, column 157; BMNH, IV: 1514 (various edits.); Newton, 14; Norden-skiöld, 153-155 (hist., biogr.).

6. 1701. *Memoirs / for a / natural history / of / animals, / containing the / Anatomical Description / of several / creatures / dissected by / The Royal Academy / of / Sciences at Paris. / Wherein / The Constructive [Changed in ink, by hand, to Construction] Fabrick and genuine Use of the Parts, are exactly / and finely delineated in Copper Plates, and the whole Enriched / with many Curious Physical and no less usefull Anatomical Re- / marks, being one of the most Considerable Productions of that / Academy. / Done into English by a Fellow of the R. S. / To which is Added, / An Account of the Measure of a Degree of a great Circle of the Earth, / Publish'd by the Members of the same Academy: English'd by R. W. SRS. / With an Alphabetical Table of the Names of the several Animals mention'd / in this Volume. And likewise an Alphabetical Index to make the Work / Compleat. / Publish'd by an Order of Council of the Royal Society. / London, / Printed for John Clarke at the Bible and Crown in the Old Change, near / St. Austin's Church, 1701. [Title in red and black.]*

Folio (30.5 × 19.5 cm). Pp. [14] 3-267 [268-280], 1-40 (pp. 176 and 212 misnumbered 671 and 202); 35 engraved plates (the 30 in the "Memoirs" copied by Richard Waller from those of the original, No. 5; 9 ornithological).

*Signatures*— $\pi 1$   $2\pi 1$  a-b<sup>2</sup>  $\chi^2(\chi 1+A^2)$  B-U<sup>4</sup> W<sup>4</sup> X-li<sup>4</sup> Kk-Nn<sup>2</sup>, <sup>2</sup>B<sup>2</sup> B<sup>\*2</sup> <sup>2</sup>C-F<sup>4</sup> (b1 mis-signed bb); 166 leaves.

*Contents*—Engr. title ("Englished by A.P.SRS. 1687"), 1 leaf (facing title; r. blank); title, 1 leaf (v. blank); "The publisher to the reader," 1 leaf; pref., a- $\chi 1^r$ ; explanation of first plate,  $\chi 1^v$  text, A-Kk2<sup>r</sup> (pp. 3-267), a translation from the French of No. 5, in the same order (birds, pp. 132-138, 174-249); alphabetical table of names of animals, errata, and "Index of matters chiefly anatomical," Kk2<sup>v</sup>-Nn2<sup>v</sup> (13 pp.). The appended "The measure of the earth" is separately paged, 1-40 (B, B\*, C-F), with 5 plates. Each section of the book is concluded by a decorative woodcut.

A re-issue with cancellans title-leaf of the first English edition, 1688, translated by Alexander Pitfield. The work originally appeared at Paris, in several forms, variously ca. 1669-1676 (see No. 5 for details). Another issue is dated 1702 (No. 7).

BMNH, IV:1514; Wood, 520 (entered "Pitfield").

7. 1702. *The / natural history / of / animals / containing the / Anatomical Description / of several / creatures / dissected by / The Royal Academy / of / Sciences at Paris. / Wherein / The Construction, Fabrick and genuine Use of the Parts, are ex- / actly and finely delineated in Copper Plates, and the whole / Enriched with many Curious Physical and no less useful Ana- / tomical Remarks, being one of the most Considerable Produ- / ctions of that Academy. / Done into English by a Fellow of*

the Royal Society. / To which is added / An Account of the Measure of a Degree of a great / Circle of the Earth, Published by the Members / of the same Academy: English'd by R. W. SRS. / With an Alphabetical Table of the Names of the several Animals mention'd / in this Volume. And likewise an Alphabetical Index to make the Work / Compleat. / Publish'd by an Order of Council of the Royal Society / London, / Printed for R. Smith, at the Angel and Bible without Temple Barr, 1702.

See No. 6. Another issue, differing only in the title-page, which has been entirely reset with some changes of wording, dated 1702 and printed in black only. Judging from the rarity with which it is mentioned in standard bibliographical sources, the issue is little known.

BMC 179, column 823.

ACERBI, JOSEPH (GIUSEPPE) (1773-1846)

8. 1802. *Travels / through / Sweden, Finland, and Lapland / to the / North Cape, / in / the years 1798 and 1799. / By Joseph Acerbi. / Sistimus hic tandem, nobis ubi defuit orbis. / In two volumes. / Illustrated with seventeen elegant engravings. / Vol. I [II]. / London: / printed for Joseph Mawman, in the Poultry, / successor to Mr. Dilly. / 1802.*

2 vols., 4to (24.9 × 19.5 cm).

Vol. I: pp. i-xxiv, 1-396; front., 7 engr. plates.

Vol. II: pp. i-viii, 1-380; 8 engr. plates, fold. map.

*Contents*—Vol. I: title; ded.; preface, directions to binder; conts.; narrative text (part), pp. 1-396, in chapters I-XXX (on Sweden and Finland), with casual reference to birds *passim* and longer references on pp. 200-201 (on birds of the Isles of Åland) and 223-224. Vol. II: title; conts.; narrative text (concluded), pp. 1-132, in chapters I-XI (on Lapland); "General and miscellaneous remarks concerning Lapland," pp. 133-322, in Sections I-XXVII; appendix, pp. 323-380. Sections XIII-XVII deal with natural history of Lapland, birds in section XIII, pp. 212-235, with annotated list on pp. 233-235. Figured are *Corvus Lapponicus* (= *Pica pica*?) and *Strix Lapponica* (seemingly = *Strix nebulosa lapponica* Thunberg 1798; see Peters, James Lee, *Check-list of birds of the world*. Cambridge, Mass., 1931-1945, vol. 4, p. 165). In the annotated list Acerbi refers to the latter as new, although he earlier mentions Thunberg's prior description. This may be the first published figure of the form.

Observations on many subjects made on an extended journey. Birds, mammals, fishes, and insects are frequently mentioned. The first five plates in the present copy of volume II were misplaced in binding and occur opposite pp. 36, 44, 108, and 228 (2), instead of 34, 43, 107, 227, and 228, as called for in volume I, p. xii. Pp. 325-328 are engraved plates of music; pp. 329-336, apparently also music, are not present. Ownership inscriptions of John M. Hood.

BMNH, I:8.

OSTA, JOSÉ DE (1539-1600)

1604. *The / Naturall / and Morall Historie of the / East and West / Indies. / Intreating of the remarkeable things of Heaven, of the / Elements, Mettalls, Plants*

and Beasts which are pro- / per to that Country: Together with the Manners, / Ceremonies, Lawes, Governements, and Warres of / the Indians. / Written in Spanish by Ioseph Acosta, and translated / into English by E. G. / [Orn.] / London / Printed by Val: Sims for Edward Blount and William / Aspley. 1604.

4to (18.7 × 13.3 cm). Pp. [8] 1-590 (i.e. 592), [16] (misprinting 45 as 47, 48 as 50, 178 as 179, 179 as 178, 189-373 as 187-371, 376-377 as 374-375, and 380-592 as 378-590).

*Sigs.*—A<sup>4</sup>, B-Pp<sup>8</sup>, a-b<sup>4</sup> (Ee<sup>4</sup> mis-signed D<sup>4</sup>); 308 leaves.

*Contents*—1 leaf signed A, otherwise blank; title, A<sup>2r</sup>; ded., A<sup>3r</sup>; advt., A<sup>3v</sup>-A<sup>4r</sup>; text, B-Pp<sup>8v</sup>, in 7 "bookes" containing 25, 14, 27, 42, 31, 28, and 28 numb. chapters respectively. Books 1-4 deal with natural history, 5-7 with "moral" history. Various advts. and prologues addressed to the reader occur throughout. A "table" (index) occupies a-b<sup>3r</sup>, with *Errata* on b<sup>3v</sup>; b<sup>4</sup> is blank. Birds and other animals are discussed, principal ornithological references being in chapter 35 of book 4, under heading "Of Fowles which are heere, and are at the Indies, and how they could passe thither" (pp. 304-306, i.e. X<sup>1v</sup>-X<sup>2v</sup>), and in chapter 37 of the same book, under heading "Of Fowles that are proper to the Indies" (pp. 308-312, i.e. X<sup>3v</sup>-X<sup>5v</sup>). Other matter of interest to zoologists occurs on pp. 299-322 (V<sup>7v</sup>-Y<sup>2v</sup>), book 4, and in chapters 20-22 of book 1.

A well known work by one of the earliest visitors to the New World who wrote of natural history (based on observations in Peru about 1571). It is particularly interesting because of its early attempt at theoretical zoogeography. The work was first published in full at Seville in 1590. The translation of this, the first English edition, has been attributed to Edward Grimstone. Of many editions in various languages, that of the Hakluyt Society (1879) is perhaps the best known and certainly the most readily obtainable in English.

Ownership inscriptions of Anne Hill and Anne Conway; presentation inscriptions to the Oxford University Church Missionary Collectors Association Library from the Rev. J. Mendham, April 28, 1860.

Allen, 427-428 (hist.); BMNH, I:9; Church, no. 328; Cox, II:254; Sabia, 18-20 and 121 ff.

#### ACWORTH, BERNARD (1885- )

10. 1929. **This bondage** / A study of the 'migration' of birds, insects / and aircraft, with some reflections on / 'evolution' and relativity / By Commander Bernard Acworth / D.S.O., R.N. / London / John Murray, Albemarle Street, W.

8vo (18.5 × 12.5 cm). Pp. i-xxiv, 1-229 [230], [2].

*Contents*—Half-title; title ("First edition . . . 1929" on reverse); ded.; pref.; conts.; introd.; text, pp. 1-229, in chapters I-XVI and "conclusion"; advt., 1 leaf. Part I (chapters I-VI) is concerned principally with physical phenomena. Part II (chapters VII-XIII) deals with biological matters—the migration and dispersal of birds and insects. A final part is devoted largely to aviation.

This peculiar work consists of a poorly grounded and argumentative attack on

the principles of avian distribution, migration, evolution, flight, and other matters (including aircraft operation) as they stood at the time of writing. Most of the author's premises are false, as abundantly shown by later developments. His predictions for the future of aviation are seen as ridiculous today and he fares little better with biology.

Reviewed: *Ibis*, 1930:502-503; *Auk*, 1930:585-586 (Robert Cushman Murphy).

ADAMS, ANDREW LEITH (1826-1882)

11. 1873. *Field and Forest Rambles*, / with notes and observations / on the / natural history of eastern Canada. / By / A. Leith Adams, M.A., M.B., F.R.S., F.G.S., / Staff Surgeon-Major. / Author of "Wanderings of a Naturalist in India" [*Etc.*, 2 *lines.*]. / [*Vign.*] / The Ruby-Throated Humming-Bird. / London: / Henry S. King & Co., / 65, Cornhill, & 12, Paternoster Row. / 1873.

8vo (22.0 × 14.0 cm). Pp. i-xvi, 1-333 [334], [2]; front., 2 engr. plates, 15 text-figs. (several multiple, 1 full-p., none ornith.), col. fold. map.

*Contents*—Half-title; title; ded.; pref.; conts.; text, pp. 1-294, in chapters I-XII; appendix, pp. 295-321 (pp. 296-302 ornith.); index, pp. 323-333; advt., 1 leaf. Chapters I-VIII (pp. 117-195) are chiefly devoted to birds as observed in New Brunswick. Chapter XII (pp. 285-294) contains a "Naturalist's Calendar" for that region, and the appendix contains a list of birds including (on dubious authority) some improbable species.

An unimportant account of early observations in New Brunswick. Copy inscribed to C. Hart Merriam by Ruthven Deane.

Wood, 179; Zimmer, 1.

ADAMS, CHARLES CHRISTOPHER (1873-1955)

12. 1906. *An ecological survey / in / northern Michigan*. / Prepared under the direction of / Chas. C. Adams. / A report from the University Museum, University of Michigan, published by the / State Board of Geological Survey as a part of the Report for 1905. / Lansing, Michigan / Wynkoop Hallenbeck Crawford Co., State Printers / 1906.

8vo (23.0 × 15.5 cm). Pp. 1-133; text-figs. 1-21 (none ornith.).

*Contents*—Complexly divided, being a thorough treatment, for the times, of the subject. The chief ornithological matter consists of a consideration of bird distribution in the Porcupine Mountains from an ecological standpoint (pp. 56-67; by Otto C. McCreary) and an annotated list of the birds of the Porcupine Mountains and Isle Royale (pp. 113-127; by Norman A. Wood, Max M. Peet, and McCreary).

The ornithological observations are not extensive, being based on short periods of field work.

Reviewed: *Auk*, 1906:354 (J. A. Allen).

## ADAMS, HENRY GARDINER (1811-1881)

13. 1856. **Humming birds, / described and illustrated; / with an / introductory sketch / of their / structure, plumage, haunts, habits, etc. / By H. G. Adams, / Author of "Nests and Eggs of Familiar British Birds" [Etc., 2 lines]. / With eight coloured plates, and several wood engravings. / London: / Groombridge and Sons, 5, Paternoster Row. / MDCCCLVI.**

8vo (17.7 × 12.3 cm, untrimmed). Pp. i-xxviii, 29-70 [2]; engr. col. plates I-VIII, 6 wood-engr. text-figs.

*Contents*—Title; introd. (including a short biography of John Gould); text, pp. 29-54, describing briefly 16 kinds of hummingbirds, with references to the plates; "My humming birds," pp. 55-70, a popular account (by C. W. Webber) of adventures with Ruby-throated Hummingbirds (*Archilochus colubris*); index of species and advt., 1 leaf.

This obscure little book appeared in a number of editions and impressions (see Nos. 14, 15), some of them undated, and the details are unclear. The present copy appears to represent the first edition and, probably, impression. Also under date of 1856, evidently inferred, Zimmer and Wood list 144-page copies which are clearly different from (and probably later than) the present, dated copy. The plates in the present copy are bound before the title. Zimmer and Nissen erred in allocating the plates to Webber's essay. They clearly belong with Adams' text. The work is sometimes described as 12mo; the present unopened copy is definitely 8vo.

Nissen, 3; Wood, 179; Zimmer, 2.

14. 1862. **Humming birds, described and illustrated. [As No. 13: *Idem*, 12 lines] / MDCCCLXII.**

Another impression, varying only in date and final advertisement. Plates interspersed throughout; copy in original blue and orange paper covers titled: "Young / Naturalist's Library. / Humming / [Orn.] / Birds / Groombridge and Sons / London."

15. n.d. **Humming birds / Described and Illustrated / By H. G. Adams, / Author of [Etc., 2 lines]. / With eight coloured plates. / London: / Groombridge and Sons, / 5, Paternoster Row.**

8vo (18.0 × 12.0 cm). Pp. [4], 1-144, [12]; engr. col. plates I-VIII, 6 text-figs., tail-piece.

*Contents*—Title; index of species; introd., pp. 1-56; text, pp. 57-108, with descriptions of the 16 species figured; "My humming birds," by Webber, pp. 109-144; advt.

The content of this edition does not differ appreciably from that of the first (No. 13), the increased number of pages resulting from wider spacing of, the new setting of type. Two nearly identical versions from the same setting are in the collection, probably representing distinct impressions. They differ in title, the one being as transcribed above, in the other the line "With eight coloured plates" being replaced by "Illustrated" and the publisher's address being absent. On verso of title the second ver-

sion differs from the present (where this page is blank) in being marked "Printed by Simson and Co., Hertford." I have seen no evidence of a 144-page copy actually dated 1856 or 1862, although Zimmer and Wood enter such copies under date of 1856. Nissen refers to a "New edition" of 1871, and one of the Ellis 144-page copies (version 1, above) is so dated in pencil.

ADAMSON, CHARLES MURRAY (d. 1894)

16. 1880-81. *Some more scraps / about / birds, / by / Charles Murray Adamson. / [Vign.] / Newcastle-upon-Tyne: / printed by J. Bell & Co., Railway Bank, Pilgrim Street. / 1880-81. / Entered at Stationers' Hall.*

8vo (22.4 × 14.3 cm, untrimmed). Pp. i-vi [2], 1-273; 43 plates (3 "autotype engravings," 40 lith.)

*Contents*—Title; pref.; conts.; list of illustrs.; text, pp. 1-273, a long series of notes upon various species of British birds, being a rather disorderly but sometimes interesting ornithological miscellany. Much is included on molts, plumages, and habits, the work being in this respect rather progressive for its time.

This eccentric but worthwhile little work is rather rare. Original paper covers are bound in with the present copy.

Mullens and Swann, 3-4; Wood, 180. Reviewed: *Ibis*, 1882:457.

17. 1881. *Studies of birds, / by / Charles Murray Adamson. / [Vign.] / Newcastle-upon-Tyne: / Andrew Reid, Lithographer, Printing Court Buildings, Akenside Hill. / [Rule] / 1881. / Entered at Stationers' Hall.*

(13.6 × 22.3 cm). Ff. [2]; 41 plates (1 "autotype," 40 lith.)

*Contents*—Title, f.1<sup>r</sup>; contents, f.2<sup>r</sup>; autotype of swans; 40 lithographs.

A separate publication of 41 of the plates from No. 16 *supra*.

Mullens and Swann, 3-4; Wood, 180.

18. 1882. *Another book of scraps, / principally / relating to natural history, / with / Thirty-six Lithograph Illustrations from Pen and Ink Sketches of Wild Birds. / By Charles Murray Adamson. / [Vign.] / Newcastle-upon-Tyne; / Andrew Reid, Printing Court Buildings, Akenside Hill, and 12, Collingwood Street. / Mawson, Swan, & Morgan, Grey Street. / 1882. / [Entered at Stationers' Hall.].*

Oblong folio (21.7 × 28.0 cm). Pp. [4], 1-56; 36 lith. plates.

*Contents*—Title; list of illustrs.; note to the reader; text, under miscellaneous headings, with scattered references to birds. Neither text nor illustrations has great ornithological importance.

Inscribed on title-page: Edward Bidwell Esq from the Author February 26th 1884. Original yellow wrappers bound in.

Wood, 180. Reviewed: *Ibis*, 1833:374-375.

19. 1887. *Some more Illustrations / of / wild birds, / showing their Natural Habits, / by / C. M. Adamson. / [Vign.] / London: / Gurney & Jackson / (Mr. Van Voorst's Successors). / Newcastle-upon-Tyne: / Mawson, Swan, & Morgan. / 1887. / [Entered at Stationers' Hall.]*

Oblong 8vo (19.3 × 25.7 cm). Pp. [8]; photolith. plates 1-24 in sepia.

*Contents*—1 leaf with printer's imprint on v.; title; introductory remarks, dated August, 1887; index to plates; 24 plates. The plates have a careless charm but the author was far from an accomplished draftsman.

Only 200 copies were printed and the lithographic stones were destroyed.

Wood, 180. Reviewed: *Ibis*, 1888:267.

AELIANUS, CLAUDIUS (*ca.* 170-235)

20. 1744. *Αελιανου / περι / ζων ιδιότητος / βιβλια ΙΖ'. / Aeliani / de / natura animalium / Libri XVII. / Cum animadversionibus / Conradi Gesneri, et Danielis Wilhelmi Trilleri: / curante / Abrahamo Gronovio, Qui et suas Adnotationes adjecit. / [Device] / Londini, / Excudit Gulielmus Bowyer, / Sumptibus Societatis ad Literas Promovendas Institutae: / Prostant venales apud / I. Whiston in Fleetstreet, I. Osborn in Pater-noster-row, et / Fran. Changuion in the Strand, Bibliopolas Societati: / Anno MDCCXLIV. / [Pret. aur.]*

Title of second vol. as follows:

[Idem, 8 lines] / Pars altera.

2 vols., 4to (28.0 × 22.7 cm).

Vol. I: pp. i-xiv, <sup>2</sup>i-xxvii, [35], 1-603 [604].

Vol. II: pp. [605] 606-1128 [88].

*Sigs.*—Vol. I: A<sup>4</sup>, a<sup>4</sup>(-a<sup>4</sup>), <sup>2</sup>a-g<sup>4</sup>, <sup>2</sup>h<sup>4</sup>(-h<sup>4</sup>), B-Z<sup>4</sup>, Aa-Zzz<sup>4</sup>, 4A-4G<sup>4</sup>, 4H<sup>2</sup>; 340 leaves. Vol. II: 4I-6H<sup>4</sup>, 6I<sup>2</sup>, 6K-7Q<sup>4</sup>; 308 leaves.

*Contents*—Vol. I: title, A1<sup>r</sup> (v. blank); Dedicatio, A2<sup>r</sup>-a1<sup>v</sup> pp. iii-x); Praefatio, a2<sup>r</sup>-a3<sup>v</sup> (pp. xi-xiv); "Conradi Gesneri Prolegomena in Aelianum," <sup>2</sup>a1<sup>r</sup>-d2<sup>r</sup> (pp. <sup>2</sup>i-xxvii, dated Tiguri, 6 May 1556); "Index capitum," <sup>2</sup>d2<sup>v</sup>-h3<sup>v</sup>—except for the Index, which has parallel columns of Latin and Greek to correspond with the text, all introductory matter after title is in Latin; section-title to text, B1<sup>r</sup> (p. 1, in Greek and Latin); preface to text, B1<sup>v</sup> (Latin) and B2<sup>r</sup> (in Greek); text, B2<sup>v</sup>-4H2<sup>r</sup>, divided into books and chapters, in Latin and Greek on facing pages (pp. 4-603); errata, 4H2<sup>v</sup> (p. [604] in Latin). Vol. II: title, 4I1<sup>r</sup>; text, 4I1<sup>v</sup>-6I2<sup>r</sup> (pp. 606-975, on facing pages as in vol. I); errata, 6I2<sup>v</sup> (p. 976); index to critical annotations (to be found throughout text) by Conrad Gesner, Daniel Wilhelm Triller, and Abraham Gronovius, 6K1<sup>r</sup>-7E4<sup>v</sup> (pp. 977-1128); 88 unnumb. pp. as follows—"Index Graeco-Latinus Praecipuorum Animalium ab Aeliano memoratorium," 7F1<sup>r</sup>-7K2<sup>r</sup>—index of principal animals; "Index rerum Memorabilium in Aeliani Libros XVII de Natura Animalium," 7K2<sup>v</sup>-7Q2<sup>r</sup>—index of noteworthy matters in the 17 books; "Index Auctorum," 7Q2<sup>v</sup>-7Q3<sup>v</sup>; "Addenda" etc., 7Q4. The text of the two volumes is continuous, the various indices applying to the whole work. Each of the 17 books is divided into

short chapters, reference to birds being scattered throughout, with many chapters devoted entirely to ornithological subjects.

A comparatively late but very good edition of one of the classical early works on natural history. The work is regarded as inferior to those of Aristotle and Pliny, being "a kind of commonplace book kept without scientific discrimination" (Newton). There are many editions.

Bookplates of Alexander Baring and the Earl of Cromer (presumably the same owner, before and after his succession). Ownership stamp of Melchet Court, Romsey.

Newton, 3-4; Stresemann, 6; Wood, 2—hist. and crit.; Wood, 180 (many edits., including 'this).

**AFLALO, FREDERICK GEORGE (1870-1918)**

21. 1896. A sketch of / the natural history / of Australia / with some notes on sport / by / Frederick G. Aflalo, F.R.G.S., F.Z.S., Etc. / Author of "Sea-fishing on the English Coast" [*Etc.*, 2 lines.] / Illustrated by F. Seth / [*Quotations*, 5 lines.] / London / Macmillan and Co., Ltd. / New York: the Macmillan Co. / 1896 / All Rights Reserved.

8vo (19.0 × 12.8 cm, untrimmed). Pp. iii-xxv [3], 1-307; front., 30 half-tone text-figs. (from wash drawings), map.

*Contents*—Half-title; title; pref. (date Bournemouth, July 1896); introd., pp. ix-xx; conts.; text, pp. 1-254, divided into many parts of varying rank corresponding roughly with animal classification and dealing popularly with common and more spectacular vertebrates of Australia (birds, pp. 85-154); appendix, pp. 255-280, dealing with invertebrates; glossary, pp. 281-288; index, pp. 289-307.

A popular and interesting little book of no great literary or scientific distinction.

Whittell, 3; Wood, 181.

22. 1898. A sketch of / the natural history / (vertebrates) / of the / British Islands / with a / concise bibliography of popular works relating to / the British fauna / and a list of / field clubs and natural history societies / in the United Kingdom / By: / F. G. Aflalo, F.R.G.S., F.Z.S. / Author of "A sketch of the natural history of Australia," etc. / With illustrations / William Blackwood and Sons / Edinburgh and London / MDCCCXCVIII / All Rights reserved.

8vo (19.0 × 12.6 cm, untrimmed). Pp. i-xiv, 1-498; front., 73 text-figs. (photos. and half-tones of wash drawings by G. E. Lodge; 3 full-page), fold. map.

*Contents*—Half-title; title; pref.; conts.; list of illustrs.; "Introductory," pp. 1-19; text, pp. 21-439, divided according to vertebrate classification (birds, pp. 95-296); appendix I, pp. 441-459, a bibliography of the British vertebrate fauna (birds, pp. 449-457); appendix II, pp. 460-467, "A list of natural history societies and field clubs in the United Kingdom"; index, pp. 469-498.

A popular text of no great zoological import; the appendices are of some historic interest.

Mullens and Swann, 4-5; Wood, 281.

## AGASSIZ, JEAN LOUIS RODOLPHE (1807-1873)

23. 1848. *Nomenclatoris zoologici / index universalis, / continens / nomina systematica classium, ordinum, familiarum / et generum animalium omnium, / tam viventium quam fossilium, / secundum ordinem alphabeticum unicum disposita, / adjectis homonymiis plantarum. / Auctore / L. Agassiz, / Hist. Nat. in Acad. Neocom. Professore. / Soloduri. / Sumtibus et typis Jent et Gassmann. / 1848.*

8vo (17.7 × 11.0 cm, untrimmed). Pp. i-x, 1-1135.

*Contents*—Half-title; title; preface; text, containing the names, with their dates and authorities, of all classes, orders, families, and genera of animals known to the author and his collaborators (see below) at the time of compilation, together with botanical homonyms. The preface is dated December, 1845.

With the collaboration of various specialists, Agassiz brought out the first important zoological nomenclator, under the title *Nomenclator zoologicus* at Soleure, 1842-1846. This, a single quarto volume, was published in 26 parts corresponding with 26 orders. In 1846, as a companion volume, appeared the first edition of the present *Index universalis*, in which all the names earlier assembled are ranged consecutively in alphabetical order. The present is the second edition of this part. For collaborators and editors of the original work in full see *BMNH*, I:18, and *Engelmann*, 289; the *aves* section was prepared by Prince Charles Bonaparte, G. R. Gray, and H. E. Strickland.

24. 1848-54. *Bibliographia / zoologiæ et geologiæ. / A / general catalogue / of all / books, tracts, and memoirs / on / zoology and geology. / By Prof. Louis Agassiz, / Corr. Memb. Brit. Assoc. Adv. Sc. &c. / Corrected, enlarged, and edited / By H. E. Strickland, M.A., F.G.S. &c. / Vol. I. / Containing periodicals, / and the alphabetical list from A to BYW. / London: / printed for the Ray Society. / 1848.*

Remaining vols. titled as follows: [*Idem*, 12 lines.] / Vol. II [III]. / Containing the alphabetical list from CAB to FYF [GAB to MYL]. / [*Idem*, 2 lines.] / 1850 [1852].

[*Idem*, 12 lines.] / and / Sir William Jardine, Bart., F.R.S.E., &c. / Vol. IV. / Containing the alphabetical list from NAC to ZWI. / [*Idem*, 2 lines.] / 1854.

4 vols., 8vo (22.0 × 14.3 cm).

Vol. I: pp. [2] i-xxiii [xxiv], 1-506.

Vol. II: pp. [6], 1-492.

Vol. III: pp. [6], 1-657.

Vol. IV: pp. [6], 1-604, [18].

*Contents*—All vols. contain series title (The / Ray Society. / Instituted MDCCCXLIV. / [Seal] / London. / MDCCCXLVIII [MDCCCL; MDCCCLIII; MDCCCLIV]) preceding title-page.<sup>1</sup> Vol. I contains conts., editor's pref., and list of abbrevs. Short notices appear at beginnings of vols. III and IV, the latter referring to Strickland's death. At the end of vol. IV are 18 unnumb. pp. of miscellany, including a list of subscribers to the work. The bibliographic text is in two parts, the

<sup>1</sup>Note discrepancy in date between the two in respect to vol. III. The date of the "notice" in this volume, July 23, 1852, suggests publication in that year.

first listing periodicals and irregular sources consulted, the second being the bibliographic catalogue proper, arranged alphabetically by author and variously under author.

An important early bibliographic source listing all titles known to the author and editors pertaining to zoological and geological sciences from the earliest printed literature down nearly to the time of publication. The entries are much abbreviated, with little detail, as is to be expected in a work of this scope. Not so thorough as Engelmann's *Bibliotheca Historico-Naturalis (infra)*, and much less useful because of lack of organization, it is nonetheless a valuable source of information on early works.

Inscribed (vol. III): W[illiam M.?] Baird. Bookplate: Frederick Duane Godman.

Wood, 182.

25. 1850. *Lake Superior: / its / physical character, vegetation, and animals, / compared with those of other similar regions. / By / Louis Agassiz. / With a narrative of the tour, / by / J. Elliot Cabot. / [Vign.] / And / contributions by other scientific gentlemen. / Elegantly illustrated. / Boston: / Gould, Kendall and Lincoln, / 59 Washington Street. / 1850.*

8vo (23.5 × 14.5 cm). Pp. i-x [2], 9-428 [20]; front., 16 lith. plates (8 landscapes by Cabot, 8 detail drawings of animals), map.

*Contents*—Title; pref.; conts.; list of illustrs.; text, divided into a narrative (pp. 9-133) in 4 chapters, covering the period of exploration, June 15-August 25, 1848, and a scientific report (pp. 135-428) in 12 chapters, several contributed by others, including John L. Leconte, A. A. Gould, and Thaddeus William Harris; advt. Chapter VIII (pp. 383-385) is a "Report of the birds collected and observed at Lake Superior, by J. E. Cabot." This report lists by scientific name only a number of species collected or seen at loosely designated localities.

Of minor ornithological interest.

Meisel, III:457; Wood, 181.

26. 1859. *An essay / on / classification. / By / Louis Agassiz. / London: / Longman, Brown, Green, Longmans, & Roberts, / and / Trübner & Co. / MDCCCLIX.*

8vo (22.5 × 14.1 cm). Pp. i-viii, 1-381 [3], 1-24, endpaper advt.

*Contents*—Half-title; title; pref., dated at Cambridge, December 2, 1858; text, in three chapters entitled "The fundamental relations of animals to one another and to the world in which they live, as the basis of the natural system of animals," pp. 1-206, "Leading groups of the existing systems of animals," pp. 207-284, and "Notice of the principal systems of Zoölogy," pp. 285-370; index, pp. 371-381; advt. Birds are discussed *passim*.

A work of some historical interest as revealing the views of a great zoologist of his period. Presentation copy, P. L. Sclater to H. B. Tristram. Bookplate: Henry Baker Tristram.

Wood, 182.

27. 1863. *Method of study / in / natural history.* / By L. Agassiz. / [*Device*] / Boston: / Ticknor and Fields. / 1863.

12mo (18.1 × 11.5 cm). Pp. i-viii, 1-319 [320], 1-21.

*Contents*—Title; pref.; conts.; text, in chapters I-XVI; advt. “The series of papers collected in this volume may be considered as a complement or commentary to ‘Essay on Classification.’” Birds are mentioned casually in several chapters, principal references occurring on pp. 107, 114-115, 119-120, 122-124, and 130-131.

Devoted largely to marshalling arguments against organic evolution. Another impression in the collection (autograph: C. Hart Merriam) differs only in date of title (1866), content of a 24-page terminal advertisement, and the statement “Third edition” on the verso of the title-leaf.

28. 1874. *The / structure of animal life.* / Six lectures / delivered at the Brooklyn Academy of Music in / January and February, 1862. / By Louis Agassiz, / late director of the Museum of Comparative Zoölogy. / Third edition. / New York: / Scribner, Armstrong, and Company. / 1874.

8vo (22.0 × 14.5 cm). Pp. i-viii [4], 1-128 [4].

*Contents*—Series title (Graham lectures; / on the / power, wisdom, and goodness of God, / as manifested in his works. / Volume IV. / Published by / the Brooklyn Institute); title; pref.; conts.; publisher’s note; text, in lectures I-VI; advt. Casual reference to birds appears chiefly on pp. 34-36, 97, and 107-108.

Publisher’s note refers to first publication in 1865. Inscribed: C. Hart Merriam.

AGASSIZ, JEAN LOUIS RODOLPHE *and* ELIZABETH CABOT CARY AGASSIZ

29. 1868. *A / journey in Brazil.* / By / Professor and Mrs. Louis Agassiz. / [*Poem, 5 lines*] / Boston: / Ticknor and Fields. / 1868.

8vo (21.0 × 14.0 cm). Pp. i-xix [xx], 1-540; front., 19 figs. (woodcuts).

*Contents*—Title; ded.; pref.; conts.; list of woodcuts; text, pp. 1-517, in chapters I-XVI; appendix, pp. 519-540. The text describes an expedition to Brazil extending from April, 1865 to July, 1866. Casual references to birds appear occasionally.

Interesting, informal observations by a great scientist. Ornithologist with Agassiz’s party was a young “John A.” (Joel Asaph) Allen, whose unpublished notes were said to be of considerable merit (p. 536). An account of Allen’s experiences on this trip is found in his autobiography, pp. 11-18 (No. 58).

Wood (p. 182) mentions a similarly-paged version dated 1886 (1868?).

AGASSIZ, JEAN LOUIS RODOLPHE *and* AUGUSTUS A. GOULD

30. 1848. *Principles of zoölogy: / touching / the structure, development, distribution, / and natural arrangement / of the / races of animals, living and extinct; / with numerous illustrations. / For the use of schools and colleges. / Part I. / Comparative physiology.* / By / Louis Agassiz, / and / Augustus A. Gould. / Boston: / Gould, Kendall and Lincoln. / 59, Washington Street. / 1848.

12mo (19.3 × 12.0 cm). Pp. [6] i-xix [xx], 1-216 [18]; front., text-figs. 1-170.

*Contents*—Advt.; title; pref.; conts.; explanation of figs.; introd.; text, pp. 1-207, in 14 chapters; index and glossary, pp. 209-216; advt. Casual reference to birds scattered through text.

Of interest primarily as a representative zoological textbook of the day.

Wood, 182.

31. 1855. *Outlines / of / comparative physiology, / touching / the structure and development / of the / races of animals, living and extinct. / For the use of schools and colleges. / By / Louis Agassiz / and / A. A. Gould. / Edited from the Revised Edition, and greatly enlarged, / by Thomas Wright, M D. / With 390 illustrations. / London: / H. G. Bohn, York Street, Covent Garden. / MDCCCLV.*

8vo (17.6 × 10.8 cm). Pp. i-xxiv, 1-442; front. (fold. col. chart), text-figs. 1-390.

*Contents*—An enlarged British edition of No. 30 with contents very similar in nature and scope. Frequent references to birds scattered through text.

An early zoological textbook.

AITKEN, EDWARD HAMILTON (1851-1909)

32. n.d. *The common birds / of Bombay. / By / EHA / illustrated with pen and ink. / Thacker & Co., Bombay. / Thacker, Spink & Co., Calcutta. / Higginbotham & Co., Madras.*

8vo in fours (21.0 × 13.5 cm). Pp. i-xiv, 1-195; 32 half-tone text-figs.

*Contents*—Half-title; title; pref.; conts. and classification; index of English names; index to scientific names; text, pp. 1-195, in chapters I-XXXII, the first introductory, the rest more or less corresponding with the orders of birds and containing popular, pleasantly written accounts based mostly on personal observations.

A compilation of articles first published in *The Times of India*. I have been unable to determine the date of publication of this edition. A "third edition," retitled "The common birds of India," and edited by Salim Ali with a biographical sketch of the author by W. T. Loke, is dated 1947 (Thacker & Co., Ltd., Bombay; or Thurber & Co., same; cf. *Ibis*, 1948:79-80). From this we learn that the book was first published some time, probably shortly, before the prolific author's return to Scotland in 1906, following a lifetime of work in India (copy with Thacker imprint seen Amer. Mus. Nat. Hist. Library).

ALBIN, ELEAZAR (fl. 1713-1759)

33. 1731-38. *A / natural history / of / birds. / Illustrated / With a Hundred and one Copper Plates, / Curiously Engraven from the Life. / Published by the Author Eleazar Albin, / and carefully colour'd by his Daughter and Self, from / the Originals, drawn from the live Birds. / [Orn.] / London: / Printed for the Author: And Sold by William Innys in St. Paul's Church Yard; / John Clarke under the*

Royal-Exchange, Cornhill; and John Brindley at / the King's Arms in New Bond-Street. MDCCXXXI.

Vols. II and III titled as follows:

[*Idem*, 5 lines] / With a Hundred and four Copper Plates, / Engraven from the Life. / [*Idem*, 1 line.] / and carefully colour'd by his Daughter and Himself, / from the Originals, drawn from the live Birds. / Vol. II. / [*Orn.*] / London: / Printed for the Author: And Sold by William Innys at the West-End of St. Pauls; / John Clarke under the Royal-Exchange, Cornhill; and John Brindley / at the King's Arms in New Bond-Street. MDCCXXXIV.

[*Idem*, 6 lines] / Engraven from the Life. / [*Idem*, 1 line.] / and carefully colour'd by his Daughter and Himself, / from the Originals, drawn from the live Birds. / Vol. III [*Misprinted II., corrected to III in ink*] / London: / Printed for the Author: And Sold by William Innys at the West-End of St. / Paul's; and John Brindley at the King's Arms in New Bond-Street. / MDCCXXXVIII.

3 vols., 4to (29.0 × 22.8 cm).

Vol. I: pp. [8] 1-96 [97-100]; engr. col. plates 1-101.

Vol. II: pp. [8] 1-92 [93-96]; engr. col. plates 1-104.

Vol. III: pp. [8] 1-95 [96]; engr. col. plates 1-101, 1 engr. table.

*Sigs.*—Vol. I: A<sup>4</sup> B-Cc<sup>2</sup>; 54 leaves. Vol. II: a<sup>4</sup> B-Bb<sup>2</sup>; 52 leaves (last leaf, Bb<sup>2</sup>, lacking with no loss of text). Vol. III: A-N<sup>4</sup>; 52 leaves.<sup>1</sup>

*Contents*—Vol. I: Title, A1<sup>r</sup> (v. blank, all vols.); ded., A2<sup>r</sup>-A2<sup>v</sup>; "To the reader," A3<sup>r</sup>-A3<sup>v</sup>; list of subscribers, A4<sup>r</sup>-A4<sup>v</sup>; text, B-Bb<sup>2</sup> (pp. 1-96); observations by Mr. W. Derham, and errata, Cc1 (pp. [97]-[98]); index, Cc2 (pp. [99]-[100]). Vol. II: title, a1; "To the reader," list of subscribers, and ded., a2-a4; text, B-Aa2 (pp. 1-92); index, Bb1 (pp. [93]-[94]). Vol. III: title, A1; ded., pref., and list of subscribers, A2-A4; engr. table "A Catalogue of the Birds in the Third Volume," 1 leaf (verso blank); text, B-N4<sup>r</sup> (pp. 1-95); "A Catalogue of the Birds in the Third Volume," N4<sup>r</sup> (p. [96]). Most of the plates are accompanied by a page each of descriptive text relating to the internal and external anatomy of the birds, with comments on their distribution, food, habits, etc. Some American birds appear.

One of the earliest of elaborately illustrated bird books, just preceding the more ambitious works of George Edwards (*A natural history of uncommon birds*, *infra*) and approximately contemporaneous with Mark Catesby's great work (*The natural history of Carolina*, *infra*). Vols. I and II were reissued with new titles in 1738 and vol. III in 1740 (Nos. 34, 35). Interesting, from an esthetic and historic standpoint, the work is without particular ornithological merit, Newton having remarked, indeed, that the author "seems to have been ignorant of ornithology." Bookplate: William Dowdeswell Esq. / Of Bull Court / Worcester Shire.

Allen, 479-480 (hist.); Mullens and Swann, 7-9 (biogr.); Newton, 9; Nissen, 14.

34. 1738. A / natural history / of / birds. / Illustrated / With Two Hundred and Five Copper Plates, / Curiously Engraven from the Life. / And Exactly Colour'd by the

<sup>1</sup> Two blank leaves occurring at the beginning and end of each vol. seem to be binder's leaves and are not included.

author, / Eleazar Albin. / To which are added, / Notes and Observations by W. Derham, D.D. / Fellow of the Royal Society. / In two volumes. / Vol. I [II]. / London: / Printed for W. Innys and R. Manby, Printers to the Royal Society, at the / West-End of St. Paul's. MDCCXXXVIII.

2 vols., 4to (28.8 × 22.8 cm).

*Contents*—The same as vols. I and II of the work as first issued, 1731-1734 (No. 33), being a reissue with cancellans title-leaves.

The third volume of the work accompanying this issue is dated 1740 and characterized in title as a supplement (No. 35). Vols. I and II of the three-volume sets listed by Zimmer and Wood are apparently of this issue (No. 34). It is not absolutely clear whether there exists an issue of vol. III titled in conformity with the above and dated 1738. I have seen no direct evidence of this and it may be that all copies of vol. III dated 1738 are from the first issue and so titled (see, however, Anker, no. 5, and Mullens and Swann). The coloring of plates in 1738-40 copies seen is not as good as that in those dated 1731-38. Bookplate and supra-libros of the 9th Earl of Lincoln, later 2nd Duke of Newcastle-under-Lyme.

Anker, 4; Mullens and Swann, 9; Nissen, 15; Wood, 184; Zimmer, 3.

35. 1740. A / supplement / to the / natural history / of / birds. / Illustrated / With a Hundred and One Copper Plates, / Curiously Engraven from the Life; / And Exactly Colour'd by the Author, / Eleazar Albin. / Being the Third and Last Volume. / London: / Printed for W. Innys and R. Manby, Printers to the Royal Society, at / the West-End of St. Paul's. / MDCCXL.

4to (28.8 × 22.8 cm).

*Contents*—The same as those of vol. III of the work as first published in 1738 (No. 33), being a re-issue with cancellans title-leaf and apparently intended to accompany the 1738 reissues (No. 34) of vols. I and II (first issued in 1731 and 1734 respectively; see No. 33).

Bookplate and supra-libros as in No. 34.

Anker, 5; Nissen, 15; Wood, 104; Zimmer, 4.

36. 1737. A / Natural History / of / English song-birds, / And such of the Foreign as are usually / brought over and esteemed for their / Singing. / To which are added, / Figures of the Cock, Hen and Egg, of / each Species, exactly copied from Nature; by Mr. Eleazar Albin: And curiously Engraven on Copper. / [Orn.] / London: / Printed and sold by A. Bettesworth and C. / Hitch in Paternoster-Row; and S. Birt in / Ave-Mary-Lane, 1737.

8vo<sup>1</sup> (19.8 × 12.0 cm). Pp. [4] 1-97 [98-100]; front., 23 engr. col. plates.

*Sigs.*—[A]<sup>2</sup> B-N<sup>4</sup> [O]<sup>2</sup>; 52 leaves.

*Contents*—Title, 1 leaf; "To the reader," 1 leaf; text, pp. 1-97; index, pp. [98-100]. Text divided into accounts of birds under headings such as "Of the Green-finch,"

<sup>1</sup>Zimmer refers to the work as a 12mo, but the chain-lines in the present copy are vertical.

providing under subordinate headings descriptions of the species, details concerning their procurement, care, nesting, etc. Primarily a guide for cage-bird enthusiasts.

This is the first edition of this quaint work, the popularity of which is indicated by the considerable number of legitimate editions and piracies, some of which are listed below. Another copy in the collection has uncolored plates.

Mullens and Swann, 7-9; Wood, 184; Zimmer, 3.

37. 1741. A / Natural History / of / English song-birds, / and / Such of the Foreign as are usually / brought over and esteemed for / their Singing. / To which are added, / Figures of the Cock, Hen, and Egg of / each Species, exactly copied from Nature, / By Mr. Eleazar Albin, / And curiously engraven on Copper. / Also / A particular Account how to order the Ca- / nary-Birds in Breeding; likewise their Dis- / eases and Cure. / The second edition. / London: / Printed for R. Ware, at the Bible and Sun in Amen- / Corner, near Pater-Noster-Row, 1741. Price 2s. 6d.

8vo (17.1 × 10.5 cm). Pp. [4] 1-96 [97-100]; front., 23 engr. plates.

Sigs.—[A]<sup>2</sup> B-N<sup>4</sup> O<sup>2</sup>; 52 leaves.

*Contents*—Essentially the same as in the first edition (No. 36). The type has been reset and the text does not always match the original line for line. A final page of advt. has been added.

The second edition, wrongly dated 1747 by Coues. Some copies are said to have the plates colored. Bookplates: W. H. Mullens; the Honble. Sr. William Irby, / of Boston, Lincolnsh: Bart.

Coues, 4:363; Mullens and Swann, 9; Nissen, 17.

38. 1776. A / natural history / of / singing birds: / and particularly, / That Species of them most commonly / bred in Britain. / To which are added, / Figures of the Cock, Hen, and Egg, of each / Species, exactly copied from Nature, / and elegantly engraven on Copper. / Together with / The Figure, Description, and Use of the Day-net, and / the Manner of catching small Birds of all Kinds. / By a lover of birds. / Edinburgh: / Printed for J. Dickson, front of the Exchange. / M, DCC, LXXVI.

12mo (16.5 × 9.9 cm). Pp. [4] i-vii [viii], 1-120 [4]; front., 22 engr. plates.

Sigs.—a<sup>6</sup> A-K<sup>6</sup> [L]<sup>2</sup>; 68 leaves.

*Contents*—Half-title, 1 leaf; title, 1 leaf; pref., pp. i-vii; poem, p. [viii]; text, pp. 1-114; appendix, pp. 115-120, including accounts of the "Virginia-nightingale," the "Common House-Swallow," and miscellany; index, 4 unnumb. pp. The text varies in many respects from earlier editions, being largely reworded, but is much the same in content.

See No. 36. The present is said by Mullens and Swann to be a reprinting of a pirated edition of 1754. Wood (p. 184) lists a 1754 piracy in which the words "most commonly bred in Scotland" appear in the title. Possibly there are more or less con-

temporaneous "British" and "Scottish" versions of both 1754 and 1776 piracies, although I have no evidence of this.

Mullens and Swann, 9.

39. 1779. A / natural history / of / English song-birds, / including such / foreign birds / as are usually brought over and esteemed / for their singing: / Their proper Management, Diseases, and Cures. / To which are added, / figures of the cock, hen, and egg of / each species, / exactly copied from nature, / By Mr. Eleazar Albin, / and curiously engraven on copper. / A new edition corrected, / with several improvements, under the article of / canary-birds. / London: / Printed for T. Lowndes, No. 77, in Fleet-Street, / and S. Bladon, in Paternoster-Row. 1779. / Price 3s. plain, and 7s. 6d. coloured.

8vo (20.0 × 12.7 cm, untrimmed). Pp. [4] 1-107 [108-110] [2]; engr. col. front., 23 engr. col. plates.

Sigs.—[A]<sup>2</sup> B-H<sup>8</sup>; 58 leaves.

Contents—Title; "To the reader"; text, pp. 1-107; index, pp. [108-110]; advt., 2 unnumb. pp. Text more or less as in earlier edits.

See first edition (No. 36). The present example probably represents what is said to be the legitimate fourth edition of the work. Bookplates: W. H. Mullens; Le Gendre Pierce Starkie. The frontispiece bears the legend "Published June 12, 1779, by T. Lowndes. . . ."

Mullens and Swann, 9; Nissen, 17; Wood, 184.

40. 1825. History / of / singing-birds: / particularly that species / most commonly known in / Britain. / Illustrated with fifteen elegant / engravings, correctly copied / from nature. / By an amateur. / Leith: / Published by James Burnet, / and sold by all the booksellers. / 1825.

8vo, in fours (15.5 × 9.5 cm). Pp. [4] i-iv, 1-60; engr. col. front., 14 engr. col. plates.

Contents—Title, 1 leaf; index, 1 leaf; introd., pp. i-iv; text, pp. 1-60.

Still another piracy of Albin's *A natural history of English song-birds* (No. 36), much altered from the original as first published in 1737, but still clearly recognizable as a descendant. The drawings are not in Albin's style and suggest plagiarism of George Edwards (*A natural history of uncommon birds*, *infra*).

Mullens and Swann, 19.

#### ALCOCK, ALFRED WILLIAM (1859-1933)

41. 1902. A naturalist / in Indian seas / or, four years with the Royal / Indian Marine Survey Ship / "Investigator" / By A. Alcock, M.B., LL.D., F.R.S. / Corresponding Member of the Zoological Society of London / [*Etc.*, 3 lines] / London / John Murray, Albemarle Street / 1902.

8vo (22.8 × 15.5 cm, untrimmed). Pp. iii-xxiv, 1-328; front., figs. 1-98 (halftones).

*Contents*—Half-title; title; ded.; pref.; conts.; list of illustrs.; text, pp. 1-298, in chapters I-XXI and in two parts (one narrative, one related to deep-sea fauna of the Indian Region); appendices, pp. 299-318; index, pp. 319-328. Birds are mentioned casually on pp. 81, 123-126 (behavior), 181-184, etc.

A marine survey with both popular and technical content; of little ornithological importance.

Wood, 184.

ALDROVANDUS, ULYSSES (1552-ca. 1605)

42. 1599-1603. *Vlyssis Aldrouandi / Philosophi ac Medici / Bononiensis. / Historiam Naturalem in Gymnasio Bononiensi / Profitentis, / Ornithologiae / Hoc est / de Anibus Historiae / Libri XII. / Ad Clementem VIII. / Pont. Opt. Max. / Cum / Indice Septendecim Linguarum / Copiosissimo. / Bononiae / Apud Franciscum de Franciscis Senensem. / CIO. IO. XCIX / Superiorum Permissu. / [Engr.] / Cum Priuilegiis. [Engr., orn. architectural title decorated with classical figures, the title as transcribed above on a central tablet. On lateral columns near bottom of page appear: Alex. / Mag. / Arist. (left); Vesp. / Imp. / Plin. (right). At foot: Aldrovandus presenting his book to Clement VIII.]*

Remaining vols. titled as follows:

*Vlyssis Aldrouandi / Philosophi et Medici / Bononiensis / Ornithologiae / Tomus Alter / ad Illustrissimum Principem / Alexandrum Perettum / S.R.E. Card. Montaltum / Vicecancellarium, & Bononiae / Legatum / Cum Indice / Copiosissimo / Variarum / Linguarum / Bononiae / Apud Io: Bapt. Bellagambam MDC. Superiorū Permissu / [Engr.] / Cum Priuilegio S. Caes. M. Magni Hetruriae / Ducis et Ducis Vrbinī. [Engr., orn. architectural title with various shields and devices on an arch. Portrait of Perettus at head of arch.]*

*[Same as vol. II, 4 lines.] / Tomus Tertius ac Postremus. / [Same as vol. II, 14 lines.] [Engr., orn. title, from same plate as that of vol. II, with the indicated change for the volume number.]<sup>1</sup>*

3 vols. ornithology (of 13—should be 14—vols. in all), folio (35.5 × 24 cm).

Vol. I: pp. [18], 1-883 [884], [56] (mis-printing 94 as 92, 208 as 218, 496-501 as 494-499, 761-764 as 759-762, 880-883 as 890-893); engr. t-p., engr. portrait, 166 woodcuts in text.

Vol. II: pp. [20], 1-862, [60] (mis-printing 357 as 157, 358 as 158, 445 as 455, 532 as 528, 543 as 553, 669 as 699, 702 as 792, 711 as 71r, 853 as 857, 854 as 856); engr. t-p., engr. portrait, 292 woodcuts in text.

Vol. III: pp. [8], 1-560, [24] (mis-printing 252 as 240, 382 as 282, 485 as 475, 521 as 621); engr. t-p., engr. portrait (identical to that occurring in vols. I and II), 227 woodcuts in text.

<sup>1</sup>In an effort to conform with the usage of the engraver, an exception to the usual rules of capitalization (see introd.) has been made in transcribing these engraved titles, and all major words are begun with capital letters. The engraver used this system whenever words were not entirely capitalized. The same is true of later edits. (see Nos. 43-45).

*Sigs.*—Vol. I: ¶<sup>6</sup>(-¶<sup>1</sup>) [ ]<sup>4</sup> A-4H<sup>6</sup> 4I<sup>8</sup> (X2 mis-signed V2); 479 leaves. Vol. II: ¶<sup>8</sup> [ ]<sup>4</sup> A-4B<sup>6</sup> 4C<sup>6</sup>(-4C6) 4D-4H<sup>6</sup>; 472 leaves. Vol. III: [ ]<sup>2-5</sup> A-3B<sup>6</sup> 3C<sup>4</sup> (3A3 mis-signed 2Z3; the engraved title-leaf and the engraved portrait, apparently conjugate, occupy the positions of [ ]<sup>1</sup> and 6); 296 leaves.

*Contents*—Vol. I: engraved title-leaf; dedication, ¶<sup>2-3</sup>; "Praefatio," ¶<sup>4-6</sup>; dedicatory poems, etc., [ ]<sup>1-3</sup>; engraved portrait, [ ]<sup>4</sup><sup>v</sup>; text, with "Prolegomena in Ornithologiam" pp. 1-16 (A1-B2), and books I-XII, pp. 17-883 (B3-4E4<sup>r</sup>); indices, with "Enumeratio Avium" 4E5-4E6<sup>r</sup>, and general index, 4F1-4I7<sup>r</sup>, the latter with separate indices for words from Latin, Greek, and several other languages: errata, 4I7<sup>r</sup>; register and colophon, 4I8<sup>r</sup>.

Vol. II: engraved title-leaf; dedication, ¶<sup>1-2</sup><sup>r</sup>; "J. C. Wterwerius . . . lectoribus," ¶<sup>2</sup><sup>v</sup>; dedicatory poems, etc., ¶<sup>3-6</sup>; engraved portrait (conjugate with engraved title-leaf); "Ulysses Aldrovandus candiis lectoribus," [ ]<sup>1</sup><sup>r</sup>; "Catalogus Operum Ulyssis Aldrovandi," [ ]<sup>1</sup><sup>v</sup>-3; 1 blank, [ ]<sup>4</sup>; text, books XIII-XVIII, pp. 1-862 (A1-4C5); indices (to birds, 4D1; general, 4D2-4H4); errata, register, and colophon, 4H5; privilege, etc., 4H6<sup>r</sup>.

Vol. III: engraved title-leaf; dedication, [ ]<sup>2-3</sup><sup>r</sup>; inquisitors' imprimatur, [ ]<sup>3</sup><sup>v</sup>; "Catalogus Authorum" for entire work, [ ]<sup>4-5</sup>; engraved portrait; text, books XIX-XX, pp. 1-560 (A1-3A4); indices (to birds, 3A5; general, 3A6-3C3<sup>r</sup>); errata, 3C3<sup>v</sup>; privilege, 3C4<sup>r</sup>; register and colophon, 3C4<sup>v</sup>.

Colophon of vol. I: *Bononiae. / Apud Io: Baptistam Bellagambam. 1599. / Impensis Magnifici Domini / Francisci de Franciscis Senensis. / Cum Consensu Superiorum.* Colophons of vols. II and III briefer in form, dated 1600 and 1603, respectively, and accompanied by Bellagamba's second device, a flaming brazier.

The contents of the 20 books of text are indicated by headings as follows: Liber I. De Aquilis in Genere. II. De Aquilis in Particulari. III. De Vulturibus in Genere. IV. De Accipitribus in Genere. V. De Accipitribus in Specie. VI. De Falconibus in Genere. VII. De Falconibus in Specie. VIII. De Avibus Rapacibus Nocturnis. IX. De Avibus Mediae Naturae (includes bats, ostriches). X. De Avibus Fabulosis. XI. De Psittacis. XII. De Corvino Genere, et de Aliis Nonnullis Avibus, quibus rostrum durum, ac robustum est (besides crows and jays, includes birds of paradise, bee-eaters, toucans, woodpeckers, hornbills, and crossbills). XIII. De Avibus pulveratricibus sylvestribus (pheasants, grouse, peafowl, quail, some passerines, etc.). XIV. De Pulveratricibus domesticis (chickens, etc.). XV. De Avibus, quae simul se pulverant et lavant (pigeons, some passerines, including *Passer domesticus*). XVI. De Avibus baccivoris (many passerine birds, including some thrushes and fringilids). XVII. De Avibus vermivoris (various passerines, including swallows [!], tits, wagtails, Old-World flycatchers, *Oenanthe* sp., etc.). XVIII. De Avibus canoris (including Nightingales, European Goldfinch, larks, and other passerines). XIX. De Avibus palmipedibus (swans, ducks, gulls, pelicans, etc.). XX. De Avibus, quae circa aquas degunt (herons, storks, cranes, some shorebirds, some ducks, etc.).

Aldrovandus' concept of avian classification, based partly on Aristotle but considerably modified for the worse (see Stresemann), is revealed by the above arrangement. His use of "dusting" as a systematic character is novel, and of some interest in view of recent emphasis of behavioral characters in taxonomy.

The 20 books are subdivided into chapters and these in turn into a great variety of lesser sections under diverse headings, containing (to mention a few) accounts of plumage, structure, habits, food, voice; methods of capturing birds; their use as food, in medicine, in emblem and symbol, and in mythology and proverb.

One of the principal encyclopedic ornithologies of the Renaissance, and certainly the most ambitious. Aldrovandus is most notable for his energy and the volume of his works. The *Ornithologia*, although containing much of interest, is in many ways inferior to the great works of Belon and Gesner and has been called "almost wholly a compilation, and that not of the most discriminative kind" (Newton). The woodcuts range from the literal and identifiable to the purely fantastic. A few are superior for their time. They were executed by Chr. and G. B. Coriolano (Thieme-Becker, VII: 415-416). A number of New World birds are depicted, including the Cardinal and Turkey, these figures being among the earlier illustrations of American forms (see Christy, *Auk*, 1933:278).

The *Ornithologia*, first of Aldrovandus' works to appear, was followed by 11 additional folio volumes treating various aspects of the natural world and represented by a multiplicity of editions. The present first edition of the ornithology is part of a uniformly bound set containing 13 of the 14 volumes (missing is the very rare *Pomarium Curiosum*, etc., Bononiae, 1692). There are later editions of the *Ornithologia* (see Nos. 44-46).

Allen, 403-405 (hist.); BMNH, I:26-27 (various edits.); Frati, L., *Catalogo dei Manoscritti di Ulisse Aldrovandi*, Bologna, N. Zanichelli, 1907; Newton, 6 (crit.); Nissen, 18; Nordenskiöld, 95-96 (hist.); Stresemann, 22-24 (hist., crit.); Wood, 184.

43. 1637 (1640?) Vlyssis Aldrouandi / Philosophi et Medici / Bononiensis / **Ornithologiae** / Tomus Alter / ad Eminentissimū Principem / Alexandrum Perettum / S.R.E. Card. Montaltū / Vicancell. et Bononiae / Legatum / Cū indice copiosissimo / variarum linguarum. / Sumptibus / M. Antonii Bernia / Bibliopol. Bonon. / Bonon. Apud Nicolaum Tebaldinum MDCXXXVII.

Folio (35.7 × 23.5 cm). Pp. [8] 1-862 [62]; engr. title, 292 woodcuts.

*Sigs.*—[ ]2-5, A-4H<sup>6</sup>; 464 leaves. The engraved title-leaf (sculptured figures supporting shield on architectural base, signed Io. Bapta. Coriolanus) precedes [ ]2 and is stubbed to a blank leaf following [ ]5. O3, 2Z, and 3E2 are mis-signed O2, Z22, and 3E. 4C6 and 4H5v-4H6v are blank.

*Contents*—Essentially same as in first edit., vol. II (No. 42), but omits 4 leaves of dedicatory poems, engr. portrait, "Catalogus operum Ulyssis Aldrovandi" (3 leaves), and certain terminal matter (register, privilege), and contains the preliminary matter found in vol. III of first edit. Contains books 13-18, the text agreeing, not always line for line, but usually word for word, with the first edit. Woodcuts from same blocks.

Another edition of Vol. II of Aldrovandus' *Ornithologia*. The colophon is dated 1640.

44. 1637 (1640?) [As No. 43, 4 lines] / Tomus Tertius ac Postremus. / [Idem, 11 lines]  
Folio (35.9 × 23.8 cm). Pp. [8], 1-560, [24]; engr. title, 227 woodcuts.

*Sigs.*—[]2-5, A-3B<sup>6</sup>, 3C<sup>4</sup>; 296 leaves. The engraved title-leaf (from same plate as the title-leaf of No. 43 with necessary alteration for volume number) is stubbed in before [ ]2. 3C4 is blank.

*Contents*—Essentially the same as those of vol. III of the first edit. (No. 42), but lacking portrait and some terminal matter and containing same preliminary matter (same sheets) as vol. II of this set (No. 43).

Another edition of vol. III of Aldrovandus' *Ornithologia*. Colophon dated 1640.

45. 1646. Vlyssis Aldrouandi / Philosophi ac Medici / Bononiensis / Historiam naturalem in Gymnasio Bononiensi / Profitentis. / *Ornithologiae* / Hoc est / de Avibus Historiae / Libri XII. / Ad Emin. et Reu. Principem / Carolum S.R.E. Car. Rossettu / Episcopum Faentinum. / Cum Indice Septendecim linguarum / Copiosissimo / Sumptibus Marci Antonii Bernia / Bonon. Apud Nicolaum Tebaldinum MDCXLVI.

Folio (35.8 × 23.7 cm). Pp. [4] 1-883 [884] [54] (misprinting 496-501 as 494-499, 761-764 as 759-762, 879-883 as 889-893); engr. title, 166 woodcuts.

*Sigs.*— $\pi^2$  A-4H<sup>6</sup> 4I<sup>8</sup>; 472 leaves. The engraved title-leaf, garden scene signed by Gio. Batta. Cavazza, is conjugate with  $\pi 2$ . 3D3 is mis-signed 3D2.

*Contents*—Essentially same as in first edit. of vol. I (No. 42) but lacking pref., dedicatory poems, and front.; contains new dedication and omits some terminal matter. The text, books 1-12, is reset (although not always line for line) from the first edition, as is attested by the perpetuation of a number of the incorrect page-numbers of that edition. The woodcuts are from the same blocks. On p. 877 the woodcut of the "Curvirotra, sive Loxia" has been pasted over an incorrectly placed cut which occurs also in its correct position on p. 889.

Another edition of the first volume of Aldrovandus' *Ornithologia*. The colophon is dated 1645. This and Nos. 43 and 44 are part of a set of Aldrovandus containing 13 of the 14 volumes in various editions, but lacking the *Pomarium Curiosum*.

#### ALEXANDER, WILFRID BACKHOUSE (1885- )

46. 1928. *Birds of the Ocean* / A Handbook for Voyagers / Containing descriptions of all the sea-birds / of the world, with notes on their habits / and guides to their identification / By / W. B. Alexander, M. A. (Camb.) / Vice-President, Royal Australasian Ornithologists' Union / [Etc., 2 lines.] / [Orn.] / With 140 Illustrations / G. P. Putnam's Sons / New York—London / The Knickerbocker Press / 1928.

(17.4 × 9.8 cm). Pp. i-xxiii [xxiv], 1-428 [3]; half-tone plates 1-88 (115 photos., 12 diagrammatic drawings).

*Contents*—Title; pref.; conts.; list of illustrs.; text, pp. 1-395, in chapters I-XX (chapters I-XVI treat oceanic birds by taxonomic groups; chapters XVII-XX deal with the bird faunas of the north Atlantic, north Pacific, tropical seas, and southern oceans); appendix, pp. 397-418, being a "Systematic list of birds of the ocean"; index, pp. 419-428; advt., 3 pp.

The first edition of a well-known and useful guide intended for convenient use on voyages. Revised second edition, 1954.

Wood, 185. Reviewed: *Auk*, 1928:387-388 (Witmer Stone).

ALI, SÁLIM A.

47. 1945. **The birds / of / Kutch /** By Sálím Ali / With thirty-two photographs and / twenty coloured plates by / D. V. Cowen/ [*Vign.*] / Published for the Government of Kutch / by Humphrey Milford / Oxford University Press.

(24.5 × 18.5 cm). Pp. i-xviii, 1-175; plates I-XV (photos.), 1-20 (col., printed both sides on 10 leaves), map.

*Contents*—Ded. (map on v.); title (“First published 1945” on v.); pref.; introd., describing area, pp. ix-xvi; list of illustrs.; text, pp. 1-170, a thoroughly annotated account (each species described under such headings as Size, Field Characters, Status and Distribution, Habits, Nesting, Measurements, etc.) of the birds of Kutch; Appendixes A and B, pp. 171-172, list birds reported from Kutch by various other authors but not, for one reason or another, included in the present work; index of species, pp. 173-175.

An up-to-date, authoritative work on the birds of the area, and useful for north-western India in general. The work is intended to replace *The Birds of Cutch* by Hugh Palin (1878), second edition revised by C. D. Lester (1903). For readers desiring fuller descriptions the work is cross-referenced throughout to E. C. Stuart Baker’s *Fauna of British India*.

Reviewed: *Auk*, 1948:148 (S. Dillon Ripley); *Ibis*, 1946:409.

ALLEN, ARTHUR AUGUSTUS (1885-1964)

48. 1914. 1911-1913 Nos. 24-25 / Abstract / of the Proceedings of the / Linnaean Society / of / New York / For the Years Ending / March 12, 1912 / and / March 11, 1913 / containing / **The Red-Winged Blackbird: A Study in the Eco- / logy of a Cat-tail Marsh** By Arthur A. Allen / [*Etc., 2 lines*] / Date of Issue, April 15, 1914.

8vo (22.8 × 14.5 cm). Pp. [2] 43-128 151-156; plates I-XXII (plate II, map; plate III, fold. map; remaining plates photos.).

*Contents*—Title; conts.; list of illustrs.; introd.; text, in two parts (I. “The environment,” a rather thorough survey of the fauna and flora of the south end of the Cayuga Lake Basin, Tompkins County, New York; pp. 48-74. II. “The life history and ecology of the Red-winged Blackbird,” in detail under many headings; pp. 74-126); bibl., pp. 127-128; index (to this and other papers), pp. 151-156.

Copy bound as a separate book, with other papers of the volume removed. An early study of the life-history and ecology of a single species.

Reviewed: *Auk*, 1914:414-415 (Witmer Stone).

49. 1930. **The / book of bird life /** A study of birds in their / native haunts; with photo- / graphs by the author / By Arthur A. Allen / Ph. D. / [*Etc., 3 lines*] / D. Van Nostrand Company, Inc. / 250 Fourth Avenue, New York.

8vo (22.8 × 14.9 cm). Pp. i-xix [3], 1-426; col. fotogr. front., text-figs. 1-275 (chiefly photos., mainly by author), endpaper photos.

*Contents*—Half-title; title (copyright, 1930, on v.); ded.; conts.; list of illustrs.; introd.; text, in chapters I-XII (Part I, pp. 1-299; The living bird) and XIII-XX (Part II, pp. 301-416; Methods of bird study); index, pp. 417-426.

A well-known textbook providing a general review of the biology and study of birds for beginning students of ornithology. It is now outdated but a revised edition appeared in 1961.

Reviewed: *Auk*, 1930:432-433 (Witmer Stone).

50. 1934. **American / bird biographies /** Containing the complete life-histories of / familiar birds / written in autobiographical form / By Arthur A. Allen, Ph. D. / Professor of Ornithology in Cornell University / [*Etc.*, 5 lines]. / With ten color plates and / ten wash drawings / By George Miksch Sutton / and 190 photographs of the birds in nature / by the author / [*Orn.*] / Comstock Publishing Company, Inc. / Ithaca, New York.

8vo (24.2 × 16.5 cm). Pp. i-ix [x], 1-238; 20 plates (10 col., 10 half-tone), half-tone text-figs. 1-189 (193 photos.), endpaper half-tones.

*Contents*—Half-title; title (copyright 1934 on v.); introd.; conts.; text, pp. 1-223, being a series of informally written accounts of well-known birds, written as though told by the birds themselves, for children; a series of questions for teaching purposes is found on pp. 225-238.

Intended primarily for young readers. The various accounts were originally published in *Bird-Lore*.

Reviewed: *Auk*, 1935: 205 (Witmer Stone).

51. 1939. **American bird biographies / Second series / The Golden Plover / and Other Birds /** By Arthur A. Allen, Ph. D. / Professor of Ornithology in Cornell University / [*Etc.*, 3 lines] / With seven color plates / By George Miksch Sutton / and 240 photographs of birds in nature / by the author / [*Orn.*] / Comstock Publishing Company, Inc. / Ithaca, New York, 1939.

8vo (24.2 × 16.6 cm). Pp. i-xiii [xiv], 1-324; 7 col. plates, 243 text-figs. (half-tones of 242 photos.; 1 line-cut), endpaper half-tones.

*Contents*—Half-title; title; introd.; conts.; list of plates; text, pp. 1-304, a series of popularly written accounts of well-known birds told in the first person. A series of questions to be used as aids in teaching occupies pp. 305-324.

Further popular "autobiographical" accounts of the same type as those in the author's *American bird biographies* (No. 50).

Reviewed: *Auk*, 1939:346-347 (G. M. Allen).

ALLEN, GLOVER MORRILL (1879-1942)

52. 1904. **A list of the birds / of / New Hampshire.** / By / Glover M. Allen.

8vo (22.7 × 15.0 cm). Pp. [6] 23-222.

*Contents*—Series-title (Proceedings / of the / Manchester Institute / of / Arts and Sciences. / Vol. IV, 1902. / Part one. / Manchester, N. H. / [*Seal*] / Published by the Institute. / Manchester, N. H, [*sic*] / Nature Study Press.); title (as above); conts.; text, with introd. (pp. 23-24), summary of literature (pp. 25-35), faunal areas of New Hampshire (pp. 36-53), migration (pp. 54-61), annotated list of the birds (pp. 62-193), giving names, status, citing various records, etc.; references, pp. 194-204; index, pp. 205-222.

A carefully prepared report which should still be of some utility.

Wood, 186. Reviewed: *Auk*, 1904:503-505 (J. A. Allen; date of actual publication given as "about June 15, 1904").

53. 1909. Occasional Papers / of the / Boston Society of Natural History / VII. / Fauna of New England. / 11. / List of the Aves. / By Glover M. Allen. / Boston: / printed for the Society from the / Gurdon Saltonstall Fund. / June, 1909. (*Cover-title from original gray paper wrapper of part 11.*)

8vo (23.4 × 15.0 cm). Pp. [4] 1-10, 1-230.

*Contents*—Publisher's notice and introductory matter, 4 pp.; table of species, pp. 1-10, with columns for the states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut (records deemed trustworthy for a species in each of these states are indicated by the mark "–," and the presence of a specimen in the Society's museum is signified by the mark "+"); text proper, pp. 1-230, an annotated list of the birds, giving scientific name, common name, citation of original description, one or two references, habitat, and a sentence describing status in each New England state.

Despite its brevity a standard reference on New England birds until the appearance of more exhaustive accounts such as Forbush's *Birds of Massachusetts and other New England states* (1925-1929).

Wood, 186. Reviewed: *Auk*, 1910:97 (J. A. Allen).

54. 1925. Birds and their / attributes / By / Glover Morrill Allen, Ph. D. / [*Monogram*] / Marshall Jones Company / Boston Massachusetts.

4to (21.0 × 15.5 cm). Pp. i-xiii [xiv], 1-338; col. front. (water-color by Frank W. Benson), 33 plates (32 halftones, 1 line-cut), text-figs. 1-5 (on one page) and I-VI (line-cuts).

*Contents*—Half-title; title; ded.; pref.; conts.; list of illustrs.; text, pp. 1-320, in chapters I-XIV; references, with subtitle, pp. 321-326; index, pp. 327-338. The 14 chapters deal with various matters pertaining to the science of ornithology: human relations with birds, feathers, coloration, structure, food, origin and distribution, ecology, nesting, parasites, habits, senses and behavior, flight and song, birds at rest, migration, nomenclature and classification.

A text for beginning and moderately advanced students of ornithology of the time.

Wood, 186; Zimmer, 4. Reviewed: *Auk*, 1926: 112-113 (Witmer Stone).

ALLEN, JOEL ASAPH (1838-1921)

55. 1871. Bulletin of the Museum of Comparative Zoölogy, / at Harvard College, Cambridge, Mass. / Vol. II. No. 3. / On the / mammals and winter birds / of east Florida, / with / an examination of certain assumed specific / characters in birds, / and / a sketch of the / bird faunæ of eastern North America. / By J. A. Allen. / With Five Plates. / Cambridge, University Press: Printed by Welch, Bigelow, & Co. [*Cover-title from original brown paper covers, bound in. Caption-title, top of p. 161, reads: No. 3.—On the Mammals and Winter Birds of East Florida, / with an Examination of certain assumed Specific Characters / in Birds, and a Sketch of the Bird-Faunæ of Eastern North America. By J. A. Allen.*]

8vo (23.1 × 14.2 cm). Pp. 161-450; lith. plates IV-VIII (line drawings).

*Contents*—Introd., pp. 161-163; text, in 5 parts as follows—Part I, “The Topographical, Climatic, and Faunal Characteristics of East Florida,” pp. 163-167; II, mammals, pp. 168-185; III, “On Individual and Geographical Variation among Birds, considered in respect to its bearing upon the Value of certain assumed Specific Characters,” pp. 186-250; IV, “List of the Winter Birds of East Florida, with Annotations,” pp. 250-375; V, “On the Geographical Distribution of the Birds of Eastern North America, with special reference to the Number and Circumscription of the Ornithological Faunæ,” pp. 375-425; Appendix to Part V, being a list of authorities, pp. 426-450. Dated, p. 450, “Cambridge, April, 1871.”

A classic taxonomic and zoögeographical paper. Two separately bound copies are in the collection, signed respectively by P. L. Sclater and C. Hart Merriam.

Reviewed: *Ibis*, 1872: 189-191. See also Stejneger, *Proc. U. S. Nat. Mus.*, 7:70-81, 1884 (1885).

56. 1889. Article XIX.—On the Maximilian / Types of South American Birds in / the American Museum of Natural / History. By J. A. Allen. / Extracted from Bull. Am. Mus. Nat. Hist., Vol. II, No. 3, December, 1889. / Author's edition. [*Cover-title; caption-title reads: Article XIX.—On the Maximilian Types of South American / Birds in the American Museum of Natural History. By / J. A. Allen.*]

(23.8 × 15.0 cm). Pp. 209-276.

*Contents*—Introductory remarks, pp. 209-212; annotated list of types, pp. 212-272; concordance and index, pp. 273-276. For each type is given current name, Wied name and citation of original source, Amer. Mus. catalogue details, transcript of original label, and comments on the form or forms involved.

A basic taxonomic paper. Separately bound. Bookplate: John Eliot Thayer.

Reviewed: *Auk*, 1890:386-387 (Robert Ridgway).

57. 1907. The Types of the North American Genera of Birds. / By J. A. Allen. / Author's edition, extracted from Bulletin / of the / American Museum of Natural History, / Vol. XXIII, Article XVI, pp. 279-384. / New York, April 15, 1907. [*Cover-title; caption-title reads: Article XVI.—The types of the North American / genera of birds. / By J. A. Allen.*]

(24.6 × 16.2 cm, untrimmed). Pp. 279-384.

*Contents*—I, Introductory, pp. 279-285, discussing selection of generic types; II, Types of North American bird genera, pp. 285-379; III, General summary, pp. 379-384. Annotations as necessary under each generic name.

An important paper on nomenclature, separately bound.

Wood, 187. Reviewed: *Ibis*, 1907:634-636.

58. 1916. *Autobiographical notes / and / a bibliography / of the / scientific publications / of / Joel Asaph Allen / [Seal] / Published by the [American] Museum [of Natural History] / New York / 1916.*

(23.3 × 15.1 cm). Pp. i-xi [xii], 1-215; front. (photo., portr. of author).

*Contents*—Title; ded.; foreword by Henry Fairfield Osborn; pref.; conts.; autobiographical notes, pp. 1-46; bibl., with explanatory note, p. 49; mammal papers, pp. 50-99, about 270 titles; index to mammal papers, pp. 101-113; bird papers, pp. 115-194, about 965 titles; other subjects, pp. 195-215. Major contributions copiously annotated.

The bibliography of a noted American scientist prepared and annotated by himself and thus of special value. Presentation copy from the author to Miss M. C. Dickerson.

Reviewed: *Auk*, 1917:221 (Witmer Stone).

ALLEN, ROBERT PORTER (1905- )

59. 1942. *The / Roseate Spoonbill / Research Report No. 2 / of the / National Audubon Society / by / Robert Porter Allen / Published by / National Audubon Society / 1006 Fifth Avenue New York, N. Y. / December 1942 / \$2.50.*

(25.9 × 19.5 cm). Pp. i-xviii, 1-142; col. front. (by R. T. Peterson), 16 photogr. plates (20 photos., numb. as plates 1-20, printed both sides of 8 leaves), text-figs. 1-44.

*Contents*—Half-title; title; foreword; pref.; acknowledgments; conts.; list of illustrs.; introd. (containing a brief survey of the species of spoonbills), pp. xv-xviii; text, pp. 1-130, in parts I (distribution), II (abundance), III (migration, etc.), IV (limiting factors), V (breeding-cycle behavior), VI (food and feeding habits), VII (plumages and molts), and VIII (the future); appendix (local names, names of plants and animals, etc.), pp. 131-134; bibl., pp. 135-138; index, pp. 139-142.

A thorough and useful account of the biology of an interesting and colorful species, being one of a series of studies of threatened North American birds sponsored by the National Audubon Society (Tanner, 1941, on the Ivory-billed Woodpecker; Allen, 1952, on the Whooping Crane, and 1956, on flamingos; Koford, 1953, on the California Condor).

Reviewed: *Auk*, 1943:291-292 (J. T. Zimmer); *Bird-Banding*, 14:54-55 (D. S. Farner).

ALPHÉRAKY, SERGIUS (1850-1918)

60. 1905. *The geese of Europe / and Asia / being the description of most of the / Old World species / by / Sergius Alphéraky / [Honors, 3 lines]. / With / twenty-four*

coloured plates by F. W. Frohawk / F.E.S., M.B.O.U. / and / frontispiece by Dr. P. P. Sushkin / London: Rowland Ward, Ltd. / "The Jungle," Piccadilly / MCMV.

4to (33.4 × 26.4 cm). Pp. i-ix [x], 1-198 [199-200]; col. front., col., lith. plates 1-24, 16 text-figs.<sup>1</sup>

*Contents*—Half-title; frontispiece; title; pref., pp. v-vi (dated St. Petersburg, August, 1904); conts.; list of plates; text, with introd., pp. 1-6, key to genera, species, and subspecies, pp. 7-11, and extensively annotated accounts of the forms treated, pp. 12-182, giving technical names, vernaculars in many languages, synonymy, descriptions of various sex and age classes, geographical distribution, etc., all in great detail (little on habits); Appendix I (by C. F. Göbel), on the eggs of Russian geese, pp. 185-190; Appendix II, extract from diary of S. A. Buturlin's visit to Kolguev in 1902, pp. 191-195; index to English and scientific names, pp. 197-198; sectional half-title to plates, pp. [199].

A translation of the author's *Gusi Rossii*, which appeared in Moscow in 1904. A thorough and valuable work, to which the appendices by Göbel and Buturlin are welcome additions. The latter's paper on Kolguev contains numerous references to birds other than geese.

Anker, 9; Nissen, 30; Wood, 188; Zimmer, 6. Reviewed: *Auk*, 1907:229-230 (J. A. Allen); *Ibis*, 1905:478-479, and 528-535 (crit. by Count T. Salvadori, generally favorable).

#### ALTSHELER, BRENT

61. 1940. *Natural History Index-Guide* / An index to 3,365 books and periodicals / in libraries / A guide to things natural / in the field / Where and how to find the most important objects of natural / interest in all countries as described in the leading publications / by the popular authors and well-known scientists and explorers / of various nationalities / Brent Altshele / Compiler / Second Edition Revised and Enlarged / In 15 Sections, with 23 Divisions / [Device] / The H. W. Wilson Company / New York 1940.

(25.2 × 17.2 cm). Pp. 1-583.

*Contents*—Half-title; title; list of collaborators; conts.; introd.; text, minutely subdivided. The field of natural history is divided into 14 sections, following a general index (pp. 11-79). "Birds" occupies section 10, pp. 305-359. Under headings purporting to be the names of birds (anything from species to family, names vernacular) are grouped alphabetically various numbers of authors selected by unstated criteria. Titles by these authors are included in a bibliographic list in the back of the book, listed alphabetically by author and by no discernible system under author. The coverage of literature is very incomplete (for example one title is listed under Coues, none under Grinnell, two under Ridgway, and six under Wetmore) and the selection of titles sometimes seems strange for such a work. Herbert Friedmann is listed as ornithological "collaborator," but his influence must have been slight. The section on birds includes also a "selected" bibl. and an unannotated list of about 240 contributors to ornithology.

<sup>1</sup> Omitted by Zimmer.

An ambitious bibliographic effort, but not one intended for the specialist or scientist. Of comparatively little use to serious ornithologists, it may also be somewhat misleading to laymen. The first edition (1936) was published by the Natural History Publishing Company, at Louisville, Kentucky.

#### AMERICAN ORNITHOLOGISTS' UNION

62. 1886. *The code of nomenclature / and / Check-List / of / North American Birds / Adopted by the American Ornithologists' Union / being the report of the committee of the / Union on classification and / nomenclature / Zoölogical Nomenclature is a means, not an end, of Zoölogical Science / New York / American Ornithologists' Union / 1886.*

8vo (22.3 × 14.6 cm). Pp. i-viii, 1-392.

*Contents*—Title; pref.; conts.; text, with introd., pp. 1-17, "Principles, canons, and recommendations," pp. 18-69, this being the code of nomenclature; check-list proper (main list, pp. 71-347; hypothetical list, pp. 349-357; fossil birds, pp. 359-367); index, pp. 369-392. The check-list contains the names of orders, suborders, families, and subfamilies as nearly as possible in order of supposed natural relationship, under these being ranged genera, subgenera, species, and subspecies, with citations of original descriptions of each and of the published sources of the specific and subspecific combinations here adopted. Additionally the forms are marked with the numbers awarded them in the earlier lists of S. F. Baird (1858), Elliott Coues (1873; 1882), and Robert Ridgway (1880). A brief summary of distribution is given for each form. The code of nomenclature, republished separately in 1892, prepared by the committee for its own guidance, is still useful in systematic work, particularly in interpreting stands taken by the A.O.U. on controversial problems in nomenclature.

The first edition of a fundamental and authoritative standard reference on the nomenclature, classification, and distribution of North American birds. Subsequent editions appeared in 1895 (No. 63), 1910 (No. 64), 1931 (No. 65), and later, and many supplements (the first published in book form in 1889, the remainder in July numbers of *The Auk*, official journal of the Union) have been issued between editions. The several editions of the *Check-List* provide a historical record of the progress in knowledge of North American birds. By common consent most American ornithologists follow the nomenclature and classification of the current *Check-List* except where these matters are directly under argument in their own contributions.

The British ornithologists (as cited below) objected vehemently to certain basic stands adopted by the first Check-List Committee of the A.O.U. and upheld by subsequent committees. Most of the points of issue have been resolved by time, usage, and rulings of the International Committee on Zoological Nomenclature in favor of the A.O.U. J. A. Allen, William Brewster, Coues, H. W. Henshaw, Ridgway, and their colleagues and successors on the committee thus played an important part in establishing certain familiar features of present-day taxonomy, such as the use of the 10th edition of Linnaeus' *Systema Naturae* (1758) as the starting point of zoological nomenclature, preservation of the original orthography of names, and the trinomial system of nomenclature (see also Stresemann, 245-246, and Stejneger, *Proc. U.S. Nat. Mus.*, 7:70-81, 1884 (1885)).

Wood, 190; Zimmer, 6. Reviewed: *Ibis*, 1886:510-513 (crit.).

63. 1895. **Check-List / of / North American Birds / prepared by a committee / of the / American Ornithologists' Union / Second and revised edition / Zoölogical Nomenclature is a means, not an end, of Zoölogical Science / New York / American Ornithologists' Union / 1895.**

8vo (22.7 × 14.6 cm). Pp. i-xi [xii], 1-372.

*Contents*—Title; pref. to first edit.; pref. to second edit.; conts.; text (main list, pp. 1-323; hypothetical list, pp. 325-333; fossil birds, pp. 335-345); index, pp. 347-372. Similar in scope and treatment to the first edition (No. 62), but incorporating revisions in nomenclature and status of birds published in the "revised edition" of the Check-List (No. 66) in 1889 and in supplements 2-7 published in *The Auk*. The so-called "revised edition" of 1889 contained only names and related matter and is not to be confused with the second complete edition here described.

The members of the committee for this edition were Allen, Brewster, Coues, C. Hart Merriam and Ridgway. Copy with autograph and annotations of Merriam.

Wood, 190; Zimmer, 8. Reviewed: *Ibis*, 1896: 267-268.

64. 1910. **Check-List / of / North American Birds / prepared by a committee / of the / American Ornithologists' Union / Third edition (revised) / Zoölogical Nomenclature is a means, not an end, of Zoölogical Science / New York / American Ornithologists' Union / 1910.**

8vo (23.4 × 15.5 cm). Pp. 1-430; 2 fold. maps (1 col.).

*Contents*—Title; conts.; pref.; pref. to second edit.; pref. to first edit.; text (main list, pp. 21-367; hypothetical list, pp. 369-374; fossil birds, pp. 375-393); index, pp. 395-430. "The plan of the work follows that of the second edition, 1895, with a few alterations. References are given to the original designation of the various generic types and the mode of such designation is indicated, the citations of original references to accepted combinations of names are omitted, type localities are given for the species and subspecies, and serial numbers, prominent in former lists, are subordinated" (Zimmer). Incorporates changes adopted in the 8th to 15th supplements published periodically in *The Auk*.

The members of the committee for this edition were Allen, Brewster, Jonathan Dwight, Jr., Merriam, Charles W. Richmond, Ridgway and Witmer Stone.

Wood, 190; Zimmer, 8. *Ibis* does not seem to have reviewed this edition.

1931. **Check-List / of / North American Birds / prepared by a committee / of the / American Ornithologists' Union / Fourth edition / Constituting the "Systema Avium" for North America / North of Mexico / Zoölogical Nomenclature is a means, not an end, of Zoölogical Science / Published by the / American Ornithologists' Union / Lancaster, Pa. / 1931.**

o (23.3 × 15.1 cm). Pp. i-xix [xx], 1-526.

*Contents*—Title; pref. to 4th edit.; conts.; text, pp. 1-363 (main list), giving the sification of North American birds, the names of all groups, authorities and citations of original descriptions of genera, species, and subspecies, and the ranges of the

last two; hypothetical list, pp. 365-375; summary of changes, pp. 377-400; "The fossil birds of North America" (by Wetmore), pp. 401-472; index to check-list numbers, pp. 473-478; index, pp. 479-526.

The classification of North American birds was largely revised between the third and fourth editions, and many minor changes and additions reflect the progress in the study of North American birds in the period 1910-1931. An innovation here adopted is the listing of pre-Linnean sources where these serve as bases for names applied since 1758.

The members of the committee for this edition were Stone, Dwight, Joseph Grinnell, W. DeWitt Miller, Harry C. Oberholser, Theodore S. Palmer, James L. Peters, Richmond, Alexander Wetmore and John T. Zimmer.

Wetmore's contribution on fossil birds has subsequently been twice revised and separately published (*Smiths. Misc. Colls.*, 99(4):1-81, June 18, 1940; 131(5):1-105, January 25, 1956).

An abridged, or "pocket" version of the *Check-List* was published in 1935 (*Auk*, 1935:478).

Reviewed: *Ibis*, 1932:535-538. Comments and corrections were submitted by F. C. R. Jourdain and published in *Auk*, 1933:201-204.

66. 1889. **Check-List / of / North American Birds / According to the Canons of Nomenclature / of the / American Ornithologists' Union / Abridged edition / revised / Published by the American Ornithologists' Union / 1889.**  
8vo (23.2 × 15.0 cm, severely trimmed). Pp. 1-71 (all but pref. printed on one side of paper only).

*Contents*—Title; pref.; text (main list, pp. 5-68; hypothetical list, pp. 69-70; introduced species, p. 71), giving A.O.U. numbers, names, and references to the lists of Baird, Coues, and Ridgway (see No. 62) but no ranges or other matter.

A revised and abridged edition (not the true second edition of 1895) of the A.O.U. *Check-List of North American birds*, incorporating changes adopted in 1889 in the Union's *Supplement to the Code of Nomenclature*. The composition of the editorial committee was identical with that of No. 63.

Wood, 190; Zimmer, 7.

67. 1904. **Report of the A.O.U. Committee / on the / Protection of North American Birds, / and of the / National Committee of Audubon / Societies / for the year, 1903. / Also, on the / results of special protection / to gulls and terns / obtained through the Thayer Fund. / By William Dutcher / Chairman of the Committees. / (Extracted from 'The Auk,' January, 1904.). [Cover-title]**  
(23.4 × 15.0 cm). Pp. 97-208; photogr. plates XII-XVII, 2 maps.

Includes considerable correspondence and information pertinent to the millinery trade and the use of plumes therein. The covers were apparently printed especially by the Audubon Societies for circulation of extra copies and contain advertisements. Bookplate and signature: Thomas Parkin.

68. 1933. **Fifty years' / progress / of / American ornithology / 1883-1933 / Published**

by the American Ornithologists' Union / on the occasion of its Semi-centennial / Anniversary, New York, N.Y. / November 13-16, 1933 / (Revised Edition) / [*Decor.*] / Lancaster, Pa., 1933.

(24.4 × 15.8 cm, untrimmed). Pp. 1-249; front. (composite photo. of founders).

*Contents*—Title; conts.; introd.; text, in the form of a historical summary, as follows: "A brief history of the American Ornithologists' Union," pp. 7-27 (by Theodore S. Palmer); "American ornithological literature 1883-1933," pp. 29-49 (by Witmer Stone); "Fifty years of bird migration," pp. 51-63 (by William Rowan); "Bird banding," pp. 65-87 (by Frederick C. Lincoln); "The theory of territorialism and its development," pp. 89-100 (by Margaret M. Nice); "Advances in life history work," pp. 101-109 (by Herbert Friedmann); "Economic ornithology," pp. 111-129 (by William L. McAtee); "Collections of birds in the United States and Canada: study collections," pp. 131-141 (by James L. Peters); "Collections of birds in the United States and Canada: exhibition collections," pp. 143-157 (by Frank M. Chapman); "History and progress of bird photography in America," pp. 159-180 (by Alfred O. Gross); "Fifty years of progress in American bird-art," pp. 181-197 (by George M. Sutton); "Fifty years of bird protection in the United States," pp. 199-213 (by T. Gilbert Pearson); "Ornithological education in America," pp. 215-229 (by Arthur A. Allen); "Development of our knowledge of fossil birds," pp. 231-239 (by Alexander Wetmore); Appendix A, "Meetings and Membership of the Union, 1883-1933," pp. 241-242; Appendix B, "Chronology of the . . . Union," pp. 242-249.

A useful reference work containing much historical and biographical information. A somewhat similar but more technical work appeared in 1955.

Reviewed: *Auk*, 1934:105-106 (Witmer Stone).

#### AMUNDSEN, ROALD ENGELBRECHT GRAVNING (1872-1928)

69. 1908. Roald Amundsen's / "The North West Passage" / being the record of a / voyage of exploration of the / Ship "Gjøa" 1903-1907 by Roald / Amundsen with a supplement / by First Lieutenant Hansen / vice-commander of the / expedition / With about one hundred and thirty-nine / illustrations and three maps / Vol. I [II] / London: / Archibald Constable and Company Limited / 1908.

2 vols., 8vo (23.2 × 16.0 cm).

Vol. I: pp. i-xiii [xiv], 1-335 [336]; front., 68 halftone plates and text-figs., fold. map (no ornith. illustrs.).

Vol. II: pp. i-ix [x], 1-397 [398]; front., 70 halftone plates and text-figs., fold. map (no ornith. illustrs.).

*Contents*—Vol. I: half-title; title; ded.; pref.; conts.; list of illustrs.; text, chapters I-VII, VIII (part I). Vol. II: half-title; title; conts.; list of illustrs.; text, chapter VIII (part II), chapters IX-XIII; supplement (by Godfred Hansen); addendum; index to both vols.

An account of explorations by the Amundsen expedition on the Arctic coast of North America, 1903-1907. Occasional brief references to birds are scattered through both volumes. Zoological specimens, including birds, were collected by Adolf Henrik Lindström. cursory search has revealed no record of a scientific report on the birds.

## ANDERSON, JOHANN (1647-1743)

70. 1746. Herrn Johann Anderson, / I. V. D. / und weylend ersten Bürgermeisters der freyen Kayserlichen / Reichstadt Hamburg, / Nachrichten / von Island, / Grönland und der Strasse Davis, / zum wahren Nutzen der Wissenschaften / und der Handlung. / Mit Kupfern, und einer nach den neuesten und in diesem Werke angegebenen Entdeckungen, genau eingerichteten Landcharte. / Nebst einem Vorberichte / von den Lebensumständen des Herrn Verfassers. / [Orn.] / Hamburg, / verlegt Georg Christian Grund, Buchdr. 1746.

8vo (21.5 × 13.3 cm, untrimmed). Pp. [30] 1-328 [329-335]; engr. front., 4 engr. plates (3 fold.), fold. map.

Sigs.— $\pi^2$  a<sup>8</sup>(-a1.8= $\pi^2$ ?) b<sup>8</sup> A-X<sup>8</sup>; 184 leaves.

Contents—Engraved front.,  $\pi 1^v$ ; title,  $\pi 2$ ; author's foreword, a2-a5<sup>r</sup>; foreword on the life of Anderson, a5<sup>v</sup>-b8 (dated at Hamburg, 1 Oct. 1746); text as follows—"Nachrichten von Island," pp. 1-144 (A1-I8), "Nachrichten von Grönland und der Straat Davis," pp. 145-284 (K1-S6), "Anhang," being an introduction to native languages of the area, pp. 285-328 (S7-X4); "Register" (index), pp. [329-333] (X5-X7<sup>r</sup>); errata, p. [333]; blank, p. [334] (X7<sup>v</sup>); further errata, p. [335] (X8<sup>r</sup>). Material on birds, particularly game birds, birds of prey, and sea birds, occurs mainly on pp. 39-49 (Iceland) and pp. 173-184 (Greenland and Davis Straits). Most comments are brief, but a detailed description of the "Malle-mucke" (Fulmar, *Fulmarus glacialis*) is found on pp. 177-183. Figured opposite p. 42 are an owl (*Nyctea*?) and a hawk (*Falco*?).

The first edition of one of the earliest works devoting considerable space to the birds of Greenland and other areas mentioned in title. It was followed by several editions and translations. The figure from David Crantz's *History of Greenland* (*infra*) reproduced by Allen (p. 514) and credited to that work is a very close copy of Anderson's figure (p. 42) mentioned above.

Allen, 513-514 (hist.); Coues, 1: 579, 580, 581 (conts. and various edits.); Wood, 192.

## ANDERSON, JOHN (1833-1900)

71. 1879. Anatomical and zoological researches: / comprising an account of the / zoological results of the two expeditions / to / western Yunnan / in / 1868 and 1875; / and / a monograph of the two Cetacean genera, Platanista and Orcella. / By / John Anderson, M.D., Edin., / Superintendent Indian Museum, and Professor of Comparative Anatomy, Medical College, Calcutta; / medical officer to the expeditions. / First Volume—Text [Second Volume—Plates. / (84 Plates.)]. / London: / Bernard Quaritch, 15, Piccadilly. / 1878.

2 vols., 4to (31.9 × 25.0 cm).

Vol. I: pp. [4] i-xxv [3], 1-984 [985]; text-figs. 1-33 (figs. 19-33 misnumb. 18-32), col. fold. map.

Vol. II: pp. [6] 1-29; plates I-LXXXI,<sup>1</sup> XIII A, XXVA, LXXVA, LXXVB (85 plates in all, 50 col.,<sup>2</sup> 4 fold.; XLV-LIV col., ornith., by J. G. Keulemans).

<sup>1</sup> Zimmer gives I-LXXX.

<sup>2</sup> Zimmer gives 51.

*Contents*—Vol. I: title; half-title; systematic index; corrigenda; introd., pp. xiii-xxv (dated at Calcutta, Dec. 21, 1878); text, pp. 1-936; general indices, pp. 937-985]. A thorough systematic and anatomical treatise covering the vertebrate classes and many invertebrates found in Yunnan. Birds are treated on pp. 565-702, species accounts giving synonymies, lists of specimens taken, remarks on characters, distribution, and in some cases habitat. A new sunbird is described on p. 661 (plate XLIX, vol. II). Vol. II: title; half-title; corrigenda; description of plates; plates, as listed above.

Although other authors contributed to the work, the ornithological portion is by Anderson. As pointed out by Zimmer, the work could not have been published in 1878 (see date of pref.; *Zool. Record* for 1879). A valuable report handsomely produced.

Wood, 192; Zimmer, 9. Reviewed: *Ibis*, 1880-132.

ANDERSON, RUDOLPH MARTIN (1876- )

72. 1907. March, 1907. Vol. XI. Pages 125-417 / Proceedings / of the / Davenport Academy of Sciences / The birds of Iowa / by Rudolph M. Anderson / Davenport, Iowa, U.S.A. / Davenport Academy of Sciences / 1907. [Cover-title]

8vo in fours (23.5 × 15.3 cm). Pp. 125-417 [418], [4]; front. (map).

*Contents*—Pref., pp. 125-127; introd., pp. 128-147; text, pp. 148-392, an annotated list of Iowa birds, with short statement of status and summary of records for each species; bibl., pp. 393-403 (incomplete, omitting titles from serials); addenda, pp. 404-406; errata, p. 407; index, pp. 408-417; advt., 2 leaves.

A separately bound copy of a state list adequate at the time of publication and still useful as a repository of earlier records.

Zimmer, 9. Reviewed: *Auk*, 1907:458-459 (J. A. Allen).

ANDRÉ, EUGÈNE

73. 1904. A / naturalist in the / Guianas / By / Eugène André, F.R.G.S., F.Z.S., M.S.A. / With a preface by Dr. J. Scott Keltie / (Secretary of the Royal Geographical Society) / With thirty-four illustrations / and a map / London / Smith, Elder, & Co., 15 Waterloo Place / 1904 [All rights reserved].

8vo (22.4 × 14.5 cm, untrimmed). Pp. i-xiv, 1-310 [2]; front. (portr. of author), 33 plates (31 photos., 1 ornith.; 2 lith., col., ornith., by Keulemans), 2 text-figs., col. fold. map.

*Contents*—Half-title; title; pref.; conts.; list of illustrs.; text, pp. 1-303, in chapters I-XX, and "Conclusion," p. 304; index, pp. 305-310; advt. Includes much zoological material, with interesting references to habits of birds, especially in chapters X, XI (these mainly ornithological), XII, XIII, XV, XVI, and XVII.

An interesting account, said to be rare, of expeditions devoted to scientific work, largely biological. A technical report based in part on specimens collected by André on some of these expeditions was prepared by Berlepsch and Hartert (*Novitates Zoologicae*, 9:1-134, April, 1902).

Wood, 192; Zimmer, 10. Reviewed: *Ibis*, 1904:459-460.

## ANDREWS, CHARLES WILLIAM (1866-1924)

74. 1900. **A monograph / of / Christmas Island / (Indian Ocean): / physical features / and / geology / by / Charles W. Andrews, B.A., B.Sc., F.G.S. / With descriptions of / the fauna and flora / by / numerous contributors. / Illustrated by twenty-two plates, a map, and numerous / illustrations in the text. / London: / printed by order of the Trustees. / Sold by / Longmans and Co., Paternoster Row. / B. Quaritch, 15, Piccadilly. Dulau and Co., 37, Soho Square, W. / Kegan Paul and Co., Charing Cross Road, W.C. / and at the / British Museum (Natural History), Cromwell Road, S.W. / (All rights reserved.) / 1900.**

8vo (21.6 × 13.9 cm). Pp. i-xiii [3], 1-337 [338], 1-20; plates I-XXI, II bis (22 plates in all; 7 chromolith., including ornith. plates III-VI, by Keulemans; 12 lith.; 3 collotype photos.), 27 text-figs. (numb. separately in each section; none ornith.), fold. col. map.

*Contents*—Half-title; title; pref., by Henry Woodward, dated Feb., 1900; author's pref.; introd.; note; conts.; list of text-figs.; text, in many sections, that on birds (pp. 37-50) by R. Bowdler Sharpe and giving for each species synonymy, list of specimens taken on Christmas Island, and various comments (occasional notes by Andrews on behavior and life history appear in brackets, initialled C.W.A.); advt.

A single brief but well-prepared faunal paper comprises the ornithological content of this work.

Wood, 193 (collation of plates in error). Reviewed: *Ibis*, 1900:689.

75. 1906. **A descriptive catalogue / of the / Tertiary Vertebrata / of / the Fayûm, Egypt. / Based on the collection of the Egyptian Government in / the Geological Museum, Cairo, / and on the collection in / the British Museum (Natural History), London. / By / Charles William Andrews, D. Sc. / London: / printed by order of the Trustees of the British Museum. / Sold by / Longmans & Co., 39 Paternoster Row, E.C.; / B. Quaritch, 15 Piccadilly, W.; Dulau & Co., 37 Soho Square, W.; / Kegan Paul & Co., 43 Gerrard Street, W.; / and at the / British Museum (Natural History), Cromwell Road, S.W. / 1906. / (All rights reserved.)**

4to (31.6 × 24.7 cm). Pp. i-xxxvii [xxxviii], 1-324; half-tone front., lith. plates I-XXVI, engr. text-figs. 1-98.

*Contents*—Title; pref.; introd.; list of pertinent literature; systematic index; list of illustrs.; text, systematically arranged, Aves including one species only, pp. 258-260 being devoted to a discussion and figure of the ratite bird *Eremopezus eocaenus* Andrews.

A thorough and well-made work with little ornithological content.

Wood, 193.

## ANECDOTES OF BIRDS

76. 1809. **Anecdotes of birds; / or / short accounts / of / their habits / in a state of nature, / collected from / the best authors on natural history. / [Wood-engraving of bird, entitled:] / Red-Breast. / With figures engraved on wood. / [Rule] / London: / Printed by and for William Savage, / 28, Bedford Bury. / 1809.**

8vo (17.3 × 10.4 cm). Pp. [i-iii] iv [v] vi-vii [viii] ix-xii, [1] 2-123 [124] [6]; 9 wood-engravings of birds.

*Contents*—Title, p. i; Preface, p. iii-iv; "Books consulted in compiling this Volume," p. v-vii; Contents, p. viii-xii; text, p. 1-123; blank, p. 124; advt. Original blue paper wrappers bound in at end.

A good statement of the purpose and method of compilation is given in the preface. The wood-engravings are attributed to Bewick, according to Wood (p. 195).

ANKER, JEAN (1892- )

77. 1938. *Bird books and / bird art / an outline / of the literary history and iconography of / descriptive ornithology / based principally on the collection / of books containing plates with figures of birds and their / eggs now in the University Library at Copenhagen / and including a catalogue of these works / written and compiled / by / Jean Anker / issued by the University Library Copenhagen / to commemorate the inauguration of the new building / of the library / [device] / Levin & Munkegaard / Copenhagen 1938.*

4to (30.5 × 23.5 cm). Pp. i-xviii, 1-251; col. front., plates I-XII (4 col., offset lith.; 8 half-tones), 1 full-page half-tone text-fig.

*Contents*—Half-title; title; ded.; conts.; acknowledgment; pref.; list of abbrevs.; list of illustrs.; text (Part I: "An outline of the literary history and iconography of descriptive ornithology," pp. 1-87; Part II: "A catalogue of the collection," pp. 89-215); bibl., pp. 217-228 (general and comprehensive bibliographies; general and comprehensive works relating to the history of art and ornithology; special works); indices of names and places, pp. 229-251.

An exhaustive, well-prepared, readable history, and a valuable bibliographic source which is particularly useful because of its organization and thorough indexing.

Reviewed: *Auk*, 1939:92-94 (G. M. Allen); *Ibis*, 1939:165-66.

LIN, OLIVER VERNON (1858-1940)

1889. *The / birds of Oxfordshire / By / O. V. Aplin / Member of the British Ornithologists' Union / With a Map / [Quot., 4 lines] / Oxford / at the Clarendon Press / 1889 / [All rights reserved].*

8vo (21.4 × 14.3 cm, untrimmed). Pp. i-vii [viii], 1-217; col. lith. front. (by S. L. Mosley), fold. col. map.

*Contents*—Half-title; title; pref. (dated at Bloxham, Oxfordshire, May 3, 1889); introd., pp. 1-22; text, pp. 23-208, a well-annotated list of the birds ascertained to occur in Oxfordshire, giving status of each, and in some instances considerable numbers of detailed records, notes on habitat, food, etc.; addenda, pp. 209-213; glossary of local names, p. 214; index, pp. 215-217.

A good local list.

Mullens and Swann, 23-26; Wood, 199; Zimmer, 13. Reviewed: *Ibis*, 1890:110-11.

ARCHER, SIR GEOFFREY FRANCIS (1882- ) and EVA M. GODMAN

79. 1937. *The Birds of British Somaliland / and the / Gulf of Aden / Their Life Histories, Breeding Habits, and Eggs / By / Sir Geoffrey Archer, K.C.M.G. / Former Governor of the Somaliland and Uganda Protectorates / and Governor-General of the Anglo-Egyptian Sudan / and / Eva M. Godman / Volume I [II] / With 8 Coloured Plates by Archibald Thorburn / and [Word "and" omitted (Vol. II)] 2 Coloured Plates of Eggs by Henrik Grönvold / Map and Photographs [and Map (Vol. II)] / Gurney and Jackson / London: 33 Paternoster Row, E.C. / Edinburgh: Tweeddale Court / 1937.*

2 vols., 8vo (27.2 × 19.2 cm).

Vol. I: pp. i-xcvi, 1-285 [3]; col. plates [1] (front.), 2-10 (numb. and legended on tissues), 22 photogr. plates chiefly of habitats, 2 text-diagr., fold. map.

Vol. II: pp. i-vii [viii], 289-626; col. plates 11-20.

*Contents*—Vol. I: 1 blank leaf (pp. i-ii); half-title; title; ded.; conts.; historical note, pp. xi-xv; list of governors of Somaliland Protectorate, etc.; ornithological history, pp. xvii-xxii; acknowledgments; note on illustrs.; list of col. plates; list of illustrs. etc.; method of measurement; diags. of bird; introd., pp. xxxvii-lxxvii, describing the country, its bird life, and human inhabitants; list of birds (including those to be treated in 2 further vols. projected), pp. lxxix-xci; glossary, pp. xcii-xcvi; text, chapters i-ix, with subtitles for each chapter (arbitrary units dealing with systematically contiguous groups of birds), pp. 1-272; index, pp. 273-285; 1 leaf ("end of vol. I"). Vol. II: half-title; title; conts.; list of plates; text, chapters X-XIX, pp. 289-601; appendix 1, a guide to the identification of larger nests, p. 603; appendix 2, on nesting dates, pp. 604-607; bibl., pp. 609-611; index, pp. 613-626. The popularly but authoritatively written text gives keys to the various groups and, for each form, common and scientific name, source of the latter, description, and a general account with particular reference to habits in British Somaliland. In the order of Sclater's *Systema Avium Aethiopicarum*, vol. I includes the ostrich through the Falconiformes, vol. II Galliformes through Columbiformes.

A notable contribution to the ornithology of northeast Africa and a fundamental faunal work. The two volumes are also examples of excellent modern bookmaking. Unfortunately the work has never been brought to completion.

Reviewed: *Auk*, 1938:560-561 (G. M. Allen); *Ibis*, 1938:775-777 (Cyril W. Mackworth-Praed and Claude H. B. Grant).

ARCUSSIA, CHARLES D' (1547-1617?)

80. 1599. *La / Fauconnerie / de Charles / d'Arcussia, / Seigneur d'Esparron / de Paillieres, & de Courmes, Gentil- / homme Prouençal. / Diuisee en trois liures. / Avec vne briefue instruction / pour traiter les Autours, sur la fin de l'œuure, / par le mesme autheur. / Au magnanime Henry III. / Tres-Chrestien Roy de France, & de Nauarre. / [Device] / A Paris, / Chez Iean Houzé, au Palais, en / la Galerie des Prisonniers, / allant à la Chancellerie. / M.D.XCIX. / Avec priuilege du Roy.*

8vo (16.5 × 10.5 cm). Pp. 1-272 [8] (mis-printing p. 149 as 146); 11 engraved figures of birds in text.

*Sigs.*—A-R<sup>8</sup> S<sup>4</sup>; 140 leaves. Imperfect copy, lacking pp. 55-58, 133-140 (ff. D4-5, I3-6).

*Contents*—Title, A1r; “Au Roy,” A2; text proper, A3-P4, divided as follows: “Le premier liure,” in chapters I-XXV (pp. 5-96), containing general information and descriptions of different kinds of falcons; “Le second liure,” with an “avant-discours” (pp. 97-101), and two additional parts, the first containing “indices” I-VII (pp. 102-129), and the second containing chapters I-XLVII (pp. 130-194), these dealing with the diseases and care of hawks; “Le troisieme liure,” chapters I-XVI (pp. 195-232), containing instructions and material on techniques. After the three books which comprise the “fauconnerie” proper are sections (in all, P5-S<sup>4</sup>) as follows: “Briefue Autourserie du mesme autheur,” in chapters I-V (pp. 233-249), and “Recherches a l’honneur de la chasse” (pp. 251-259), with “De l’Antiquité de la Fauconnerie” (pp. 259-263), and various poems (pp. 264-272). The eight unnumb. pp. at the end are devoted to a table of contents, 6 pp., “Extrait du privilege du Roy,” 1 p., and 1 blank page.

The second edition of a famous work on falconry, rare in all editions and “much esteemed on account of its originality and the amount of information which it conveys . . .” (Harting). The first edition appeared in 1598 and the best edition is said to be that of 1644. In the copy at hand several misnumbered pages listed by Schwerdt have been corrected (one has not), indicating the existence of more than one state of some formes.

Harting, 80-82 (hist.); Schwerdt, I:41 (full collation).

#### ARISTOTELES (384-322 B.C.)

81. 1862. Aristotle's / *History of animals*. / In ten books. / Translated by / Richard Cresswell, M.A., / St. John's College, Oxford. / London: / Henry G. Bohn, York Street, Covent Garden. / 1862.

8vo (18.2 × 11.5 cm). Pp. [6], i-ix [x], 1-326, 1-32, [6].

*Contents*—Adv't.; title; pref., pp. iii-ix (by Cresswell); text, pp. 1-292, in 10 books; appendix, pp. 293-303 (trans. of an essay by J. G. Schneider); index, pp. 304-326, giving the Greek equivalent of all words indexed, although Greek does not occur in the text; two sections of advertisements. Reference to birds scattered throughout, chapters VIII-XXIV (pp. 239-254) of book 9 being devoted entirely to birds.

According to the preface this translation, one of many in the literature, is based on the Latin edition of Schneider (J. G. Schneider, Leipzig, 1811, 4 vols.), and other editions were consulted. According to terminal advertisement it forms number 86 of Bohn's Classical Library. Schneider's text of the *Historia Animalium* is not included in a list of the most authoritative basic texts given in the *Encyclopaedia Britannica*, belonging rather to a group of variously edited versions specially prepared from a zoological standpoint. Newton regarded Cresswell's as a “wretched translation.”

Newton, 3; Wood, 203.

#### ARMSTRONG, EDWARD ALLWORTHY (1900- )

82. 1940. *Birds of the grey wind* / by Edward A. Armstrong / [*Poem, 5 lines*] / Oxford University Press / London New York Toronto / 1940.

8vo (21.4 × 13.8 cm). Pp. i-xv [xvi], 1-228; 32 plates (51 photos., printed both sides of 16 leaves), 10 line-cuts in text.

*Contents*—Half-title; title; poem; ded.; conts.; list of illustrs.; pref., pp. xiii-xv; text, pp. 1-218, in chapters I-XVI, describing many aspects of the bird life of Ireland, the Scottish islands, and other areas, largely from the author's own experience, and illustrated by good photographs by himself and a number of other bird photographers (George Bird; William Bennett; C. Douglas Deane; H. Morrey Salmon; Riley Fortune); index, pp. 219-228.

Anyone interested in birds should enjoy this charmingly written, informative book, which in 1942 won the Burroughs Medal for the best natural history book of its year.

Reviewed: *Ibis*, 1940:742-743; *Auk*, 1943:456 (J. T. Zimmer).

83. 1942. *Bird display / An Introduction to the Study of Bird Psychology / By / Edward A. Armstrong / [Quot., 4 lines] / [Device] / Cambridge / At the University Press / 1942.*

8vo (21.7 × 13.8 cm). Pp. i-xvi, 1-381; plates I-XXII (numerous photos., printed both sides of 11 leaves).

*Contents*—Half-title; title (ded. on v.); conts.; list of illustrs.; pref.; text, pp. 1-309, in chapters I-XIX, treating in some detail and with numerous references to literature a wide variety of topics related to bird display and behavior; list of scientific names of birds mentioned, pp. 311-327; bibl., pp. 329-359; indices to birds, subjects, and authors, pp. 361-381.

A useful, highly condensed survey of the ideas, developments and literature to date of a fast-growing field. The bibliography is valuable. A revised and somewhat enlarged edition was published in 1947 under title of *Bird display and behaviour* (Oxford Univ. Press).

Reviewed: *Ibis*, 1943:355-357; *Auk*, 1943:287-288 (J. T. Zimmer); *Bird-Banding*, 1943:55-56 (M. M. Nice; crit.);—rev. edit., *Auk*, 1948:465 (J. T. Zimmer); *Bird-Banding*, 1948:144-145 (D. S. Farner); *Ibis*, 1948:341-342.

#### ARMSTRONG, JOHN SCAIFE

84. 1932. *Hand-list / to the / birds of Samoa / By / John S. Armstrong, M. B. / London / John Bale, Sons & Danielsson, Ltd. / 83-91 Great Titchfield Street, W. I. / 1932.*

(18.2 × 12.2 cm). Pp. i-iv [2], 1-91; 1 fig. (line-cut).

*Contents*—Title; pref. (dated Taupo, October, 1930); conts.; text, with introductory material, pp. 1-3, diagram of bird, p. 4, list of Samoan birds, pp. 5-7, key (down to order or family), p. 7, and annotated list giving terse descriptions of plumage, habitat, notes on local occurrence, and references for each of the 63 species said to occur. Keys to species are provided in a section on each order, there being no reference to families.

Designed as an aid to Samoa residents and visitors.

Reviewed: *Auk*, 1932:376-377 (Witmer Stone); *Ibis*, 1932:538 (G. M. Mathews).

## ARNAULT DE NOBLEVILLE, LOUIS DANIEL (1701-1778)

85. 1751. *Aëdologie*, / ou / *Traité* / du rossignol / franc, ou chanteur; / contenant / La maniere de le prendre au filet, de / le nourrir facilement en cage, & d'en / avoir le Chant pendant toute l'année. / Ouvrage / Accompagne de Remarques utiles & curieuses sur la nature de cet Oiseau. / Avec figures. / [*Orn.*] / A Paris, / Chez Debure l'aîné, Quai des Augustins, / à l'Image S. Paul. / [*double rule*] / M. D. CC. LI. / Avec Approbation & Privilège du Roi.

12mo (16.5 × 9.4 cm). Pp. [2] [i] ii-vii [viii-x] [1] 2-156 [157-160]; 2 engr. fold. plates (one of nightingale, the other of cages), head- and tail-pieces.

*Sigs.*— $\pi^2$  ( $\pi 1 + a^4$ ) A<sup>8</sup> B<sup>4</sup>(-B1 + B\*) C<sup>8</sup> D<sup>4</sup> E<sup>8</sup> F<sup>4</sup> G<sup>8</sup> H<sup>4</sup>(-H4 + \*) I<sup>8</sup> K<sup>4</sup> L<sup>8</sup> M<sup>4</sup> N<sup>8</sup>; 172 leaves. B1 (pp. 17-18, signed B\*) and H4 (pp. 95-96, signed \*) are cancels.

*Contents*—Title,  $\pi 1^r$ ; quotation from Aldrovandus,  $\pi 1^v$ ; Préface, pp. i-vii; Table des chapitres, pp. viii-x; text, pp. 1-156; Approbation de M. Guettard, p. 157; Privilège du roi, pp. 158-160.

The two plates are signed by M. Aubert.

Wood, 493.

86. 1773. *Aëdonologie*, / ou / *Traité* / du rossignol / franc ou chanteur; / contenant / La maniere de le prendre au filet, de / le nourrir facilement en cage, & / d'en avoir le chant pendant toute / l'année. / Ouvrage / Accompagne de Remarques utiles & curieuses sur la nature de cet Oiseau. / Avec figures. / [*Orn.*] / A Paris, / Chez Debure pere, Quai des Augustins, / à l'Image S. Paul. / [*double rule*] / M. DCC. LXXIII. / Avec Approbation & Privilège du Roi.

12mo (16.3 × 9.6 cm). Pp. [i-iii] iv-x [xi-xii] [1] 2-156; 2 engr. fold. plates, head- and tail-pieces.

*Sigs.*— $a^6$  A-M<sup>8/4</sup> N<sup>6</sup>; 84 leaves.

*Contents*—Title, p. [i]; quotation from Aldrovandus, p. [ii]; Preface, pp. [iii]-viii; Table des chapitres, pp. ix-x; Approbation and Privilège, pp. [xi-xii]; text, p. [1]-156.

Revised edition of No. 85, with the same plates. Note change of first word of title.

Wood, 195.

## ARNOLD, EDWARD CARLETON (1868- )

87. 1924. *British waders* / illustrated in water-colour / with descriptive notes by / E. C. Arnold / [*Device, in blue*] / Cambridge / at the University Press / MCMXXXIV.

4to (29.1 × 22.6 cm, untrimmed). Pp. i-vii [viii], 1-102, [2]; col. plates I-LI (by author).

*Contents*—Half-title; title; pref., pp. v-vi; conts.; text, pp. 1-102, composed of 1 leaf of descriptive matter (1-2 pp.) concerning the birds figured in each plate.

A handsome book. The popular text mainly describes field experiences with shorebirds. The plates are from delicately executed watercolors suggesting the oriental style, and are said to have been done chiefly from memory.

Wood, 204; Zimmer, 15. Reviewed: *Auk*, 1925:289-290 (Witmer Stone); *Ibis*, 1925:265-266 (Norman Boyd Kinnear).

#### ARTHUR, STANLEY CLISBY

88. 1918. State of Louisiana / Department of Conservation / M. L. Alexander, Commissioner / Bulletin 5 / **The birds of Louisiana** / [*Seal*] / Published by the / Department of Conservation / New Orleans Court Building / January 1918.

(22.9 × 14.8 cm). Pp. 1-80; fotogr. front., 6 plates (5 contain 24 photos.; the other is a line and wash drawing by author), 4 text-maps.

*Contents*—Title, 1 leaf (poem on v.); introd. note; text, with introductory material describing the state, pp. 5-12, and a briefly annotated list of the birds, pp. 13-75, giving for each a short description and statement of status; index, pp. 76-80.

A popularly written bulletin prepared for schools, nature groups, etc. The work is poorly printed and little precise information on Louisiana birds is included. The author's name does not figure in the title-page but appears at the head of the text.

Wood, 205; Zimmer, 15-16. Reviewed: *Auk*, 1918:247-248 (Witmer Stone).

89. 1931(?). State of Louisiana / Department of Conservation / Rob't S. Maestri, Commissioner / Bulletin No. 20 / **The birds of Louisiana** / [*Seal*] / Published by the / Department of Conservation / New Orleans Court Building / August, 1931.

(22.5 × 14.9 cm). Pp. 1-598, [2]; col. front. (by R. B. Horsfall), 6 col. plates (4 by Horsfall, 2 by Allan Brooks), about 230 text-figs., decors., etc. (10 full page; photos., line drawings, etc.), text-map.

*Contents*—Title; note; full-page fig.; conts.; introd., pp. 7-8; note, p. 9 ("Who owns the birds?" by W. L. Dawson); text, with various introductory material, pp. 11-32, and an annotated list of the species, pp. 33-592, giving local names, descriptions, status in Louisiana (briefly), and remarks on habits; index, pp. 595-598.

A semi-popular work prepared mainly by S. C. Arthur but completed, to its detriment, by personnel of the Louisiana Department of Conservation after Arthur's separation from that organization. Little documented, scientifically useful information is presented. The work of a large number of artists, many not credited, appears in the text-figs., which come from numerous sources. Two of the plates by Horsfall (Snowy Egret; Spoonbill) are examples of his best work. The original paper covers of the copy at hand are dated December, 1931, as is the introduction, the work evidently having been published somewhat later than the title implies, possibly not until 1932, when it was received (on April 1) by the reviewer cited below.

Reviewed: *Auk*, 1932: 370-371 (Witmer Stone).

#### ATKINSON, JOHN (1787-1828)

90. 1820. **A compendium / of the / ornithology / of / Great Britain / with a reference to the / anatomy and physiology of / birds. /** By John Atkinson, F. L. S. / Member of the Royal College of Surgeons / [*Etc.*, 3 lines]. / "Milvus in coelo cognovit

tempus suum" / [*Etc., quot., 3 lines*]. / London: / Printed for Hurst, Robinson and Co. No. 90 Cheapside; and / Robinson and Co. Leeds. / 1820.

8vo in fours (22.1 × 13.5 cm). Pp. i-vi, ix-xii, 1-232.

*Contents*—Title, 1 leaf; pref., pp. iii-vi (dated July, 1820); index, pp. ix-xii; text, pp. 1-223, a taxonomically arranged synopsis treating orders, genera, and species of British birds with descriptions, some references to literature, and occasional attention to anatomy (no synonymies, little reference to habits or life histories); appendix, pp. 225-228, on taxidermy; general index, pp. 229-232.

Title and contents self-explanatory. Mullens and Swann refer to an undated issue with six lines of honors after the author's name. The present copy agrees with Wood's in lacking pp. vii-viii. The preface (pp. iii-vi) and index (pp. ix-xii) are both complete. The omission may result from the cancelling of a leaf, as the first gathering of the copy at hand consists of only three leaves (stub of fourth conjugate with tide) and the second (index) is complete in two.

Coues, 4:376; Mullens and Swann, 29; Wood, 206.

ATKINSON, JOHN CHRISTOPHER (1814-1900)

91. 1862. *British / birds' eggs and nests*, / popularly described. / By / Rev. J. C. Atkinson, / author of "Walks and talks" [*Etc., 2 lines*]. / With coloured illustrations by W. S. Coleman. / New edition. / London / Routledge, Warne, & Routledge, / Farringdon Street. / New York: 56, Walker Street. / 1862.

8vo (16.8 × 10.6 cm, untrimmed). Pp. i-viii, 1-182 [2], col. plates II (front.), I, III-XII (all of eggs).

*Contents*—Half-title; title; pref., pp. v-viii (dated at Danby, March, 1861); text, with two "introductory chapters," pp. 1-19, followed by brief but well-written accounts of 323 kinds of British birds, pp. 21-169, these concerned mainly with breeding habits, nests, and eggs; appendix, pp. 171-178, giving accounts of species occurring, but not breeding, in the British Isles; index, pp. 179-182; advt.

An excellent and popular little book in its time. The present appears to be the second of a number of editions and/or impressions of the work, copies of others being listed by Zimmer and Wood. It lacks a folding chart said to occur in 1861 copies. Another impression is described below.

Mullens and Swann, 29-31 (hist.); Wood, 206; Zimmer, 16. Reviewed: *Ibis*, 1861:400 (first edit.).

92. n. d. *British / birds' eggs and nests* / popularly described / By / Rev. J. C. Atkinson / author of "Walks and Talks," [*Etc., 2 lines*]. / Illustrated by W. S. Coleman / London / George Routledge and Sons, Limited / Broadway, Ludgate Hill / Glasgow, Manchester and New York.

8vo (18.2 × 12.0 cm). Pp. i-viii, 1-182 [10]; col. plates I (front.), II-XII, fold. chart in pocket.

*Contents*—Except for title and advt. same as No. 91, and from the same setting of type.

Another impression, evidently little known, as I have not found the title-page exactly duplicated in any bibliographic source. Inscription: F. E. Hudson.

AUDEBERT, JEAN BAPTISTE (1759-1800) *and* LOUIS JEAN PIERRE VIEILLOT

93. 1800-02. [*Oiseaux dorés. Vol. I*] Histoire naturelle / et générale / des colibris, / oiseaux-mouches, / jacamars et promerops; / par J. B. Audebert et L. P. Vieillot. / A Paris, / chez Desray, Libraire, Rue Hautefeuille, No 36. / An XI=1802.

[*Vol. II*] Histoire naturelle / et générale / des grimpereaux / et des oiseaux de paradis. / Par J. B. Audebert et L. P. Vieillot. / A Paris, / chez Desray, Libraire, Rue Hautefeuille, No 36, / An XI=1802.

2 vols., folio (53.0 × 34.5 cm, untrimmed).

Vol. I: pp. [4] i-x, 1-128, 1-8, 1-28; plates 1-70, 1-6, 1-9 [=85 engr. col. plates].

Vol. II: pp. [4] 1-128,<sup>1</sup> 1-40; plates 1-26 *26bis* 27-88, 1-16 [=105 engr. col. plates].

*Contents*—Vol. I: set-title (“Oiseaux dorés / ou / à reflets métalliques. / Tome premier.”), p. [1]; “A Paris, / de l’Imprimerie de Crapelet. / An XI.”, p. [2]; title, p. [3]; p. [4] blank; “Avertissement,” pp. i-viii; “Liste des souscripteurs” and “Avis au relieur,” pp. ix, x; “Préface,” pp. 1-4;<sup>2</sup> “Histoire naturelle des colibris et des oiseaux-mouches,” divided as follows—“colibris,” with introd., pp. 5-40, plates 1-20; “oiseaux-mouches,” with sectional half-title, “avertissement” and introd., pp. 41-118, plates 21-64; supplement to colibris, pp. 119-128, plates 65-70; “Histoire naturelle des jacamars” (by Vieillot), with sectional half-title, pp. 1-8, plates 1-6; “Histoire naturelle des promerops,” with sectional half-title and introd. (Vieillot), pp. 1-22, plates 1-9; “Table générale des matières,” subdivided according to divisions of text, pp. 23-28. Vol. II: set-title (“Oiseaux dorés / ou / à reflets métalliques. / Tome second.”), p. [1]; “A Paris, / de l’Imprimerie de Crapelet. / An XI.”, p. [2]; title, p. [3]; p. [4] blank; treatment of the “grimpereaux,” not specially titled, divided as follows with a sectional half-title for each grouping—“grimpereaux soui-mangas,” with “Discours préliminaire, Par Camille de Genève,” pp. 1-68, plates 1-26, *26bis*, 27-40; “grimpereaux guit-guits,” pp. 69-84, plates 41-51; “grimpereaux héoro-taires,” pp. 85-106, plates 52-71; “grimpereaux,” pp. 107-112, plates 72-75; miscellaneous species, pp. 113-128, plates 76-88; “Histoire naturelle des oiseaux de paradis,” with “Discours préliminaire,” pp. 1-28, plates 1-12; supplement to birds of paradise, pp. 29-34, plates 13-16; “Table générale des matières” (subdivided for “grimpereaux” and birds of paradise), pp. 35-40. The accounts of species give French names, references to other authors, and in varying detail descriptions, distributions, and discussions of supposed relationships.

A rare, beautiful, and ambitious work. Treating as it does of iridescent birds in general, it inevitably includes a most heterogeneous assortment of forms, and approaches monographic status in the modern sense only in respect to the humming-birds (Trochilidae=“colibris et oiseaux-mouches”) and jacamars (Galbulidae). Coues wrote: “The ‘Grimpereaux’ are a most miscellaneous lot of birds, about equal to the Linnaean *Certhia*; including *Meliphagidæ*, *Coerebidæ*, *Sylvicoldæ*, *Dendro-*

<sup>1</sup> Zimmer gives 1-88.

<sup>2</sup> Omitted from Zimmer’s collation.

*colaptidæ*, etc. The Paradise birds are less composite, but still include others than the *Paradiseidæ* of modern authors." According to Sherborn (*Index Animalium*, Sect. 2, pt. 1, p. xix, 1922) the work was issued in 32 parts which appeared over a period of 26 months (thus the dating given above). The text is primarily the work of Vieillot, Audebert having died in 1800 about the time the text started to appear; the plates are from drawings by Audebert (and others?), who engraved them himself and was assisted in the coloring by Louis Bouquet. Printed by Langlois.

According to various sources, 200 standard copies were printed, in addition to 100 copies printed in black on *papier velin*, 12 copies printed in gold, and 1 copy printed in gold on vellum. The present copy represents the standard state, with gold appearing on the plates and plate inscription only. Bookplates of Selina Mary Knightley and Knightley Rainald of Fawsley.

An Italian edition in 2 volumes, folio, appeared in 1830-40 under the title of *Storia naturale generale dei colibri degli uccelli mosca, delle gabbule e dei promeropi di G. B. Audebert e L. P. Vieillot; prima traduzione Italiana con note di Guiseppe de Ceresà*.

Also at hand is a contemporaneous or nearly contemporaneous edition in quarto, with plates uncolored (No. 94).

Anker, 14 (much detail); Coues, 3:659-660 (crit.); Engelmann, 401; Newton, 23 (comment.); Nissen, 47; Ronsil, no. 103; Stresemann, 94, 383; Whittell, 731; Wood, 206-207; Zimmer, 17-18.

94. 1802(?) *Oiseaux dorés*. [*Titles identical with No. 93*]

2 vols., 4to (32.6 × 24.3 cm).

Vol. I: pp. [4] i-xii, 1-156, 1-8, 1-37; plates 1-70, 1-6, 1-9 [=85 engr. plates].<sup>1</sup>

Vol. II: pp. [4] 1-164, 1-55; plates 1-26 *26bis* 27-88, 1-16 [=105 engr. plates].

*Contents*—Essentially the same as those of the folio edit. (No. 93), but repaged as follows: Vol. I: set-title, p. [1]; set-title imprint, p. [2]; title, p. [3]; p. [4] blank; "Avertissement," pp. i-x; "Lists des souscripteurs" and "Avis au relieur," pp. xi-xii; pref., pp. 1-4; "colibris," pp. 5-48; "oiseaux-mouches," pp. 49-142 (p. 142 misnumb. 42); supplement to "colibris," pp. 143-156; jacamars, pp. 1-8; "promerops," pp. 1-28; tables, etc., pp. 29-37. Vol. II: set-title, p. [1]; set-title imprint, p. [2]; title, p. [3]; p. [4] blank; "grimpereaux souï-mangas," pp. 1-85; "grimpereaux guit-guits," pp. 87-107; "grimpereaux héoro-taires," pp. 109-134; "grimpereaux," pp. 135-143; miscellaneous species, pp. 144-164; "oiseaux de paradis," pp. 1-35; supplement to birds of paradise, pp. 37-45; tables, etc. pp. 47-55.

A separate edition in quarto, evidently published either contemporaneously with the folio (No. 93) or at its conclusion, but repaged, entirely reset, and with the plates (at least in some copies) uncolored. Authorities vary but the consensus is that 100 copies (some say 300) were published in this form.

Anker, 14 (note in text); Engelmann, 401; Grässe, I: 251; Nissen, 47 (note in text); Ronsil, 103.

<sup>1</sup>Uncolored; from the same plates as the folio but on smaller paper, necessitating folding of some of the larger figures (inserted half-sheets folded once).

## AUDOIN, JEAN VICTOR (1797-1841)

95. 1883. The Willughby Society. / *Audouin's / Explication sommaire / des planches / d'oiseaux de l'Égypte et de la Syrie / Publiées par / Jules-César Savigny. / [Vign.] / Edited by / Alfred Newton, M.A., F.R.S., etc. / London: MDCCCLXXXIII.*<sup>1</sup>

8vo (21.5 × 14.4 cm, untrimmed). Pp. i-vii [viii], 1-139 [140].

*Contents*—Blank leaf, pp. [i]-[ii]; Willughby Soc. title, p. iii; Willughby Soc. pref., pp. v-vii (signed A[lfred]. N[ewton]., 17 March 1883); verbatim reprint of Audouin's text (see below), pp. 2-138 (=pp. 302-430 and 450-456 of original; original signatures also preserved), divided as follows: introd. remarks, pp. 2-10 (302-310); "Explication sommaire des planches," pp. 11-128 (311-428), being detailed descriptions of the birds shown in 14 plates of the original (plates lacking in reprint); "Table des espèces d'Oiseaux dans l'ordre des planches [etc.]," pp. 128-130 (428-430); table des matières, pp. 132-138 (450-456); Willughby Soc. index, p. 139. Forty-four species are discussed.

I see no way to improve on Zimmer's summary of the work: "Description of, and notes on, the birds of Egypt and Syria, based on the 14 plates published by Savigny in 1810 . . . in Vol. I, livraison 1, of the 'Description de l'Égypte.' The discussion of these plates was begun by Savigny in the text accompanying the plates (Livr. 1) under the title of 'Système des Oiseaux de l'Égypte et de la Syrie.' . . . This discussion was never completed by him, and the entire subject was delegated by the French government to Audouin, whose contribution, here reprinted, was first published in about 1826; in Part 4 of the 'Histoire Naturelle, Tome Premier,' pp. 251-318 and 336-339, of the 'Description.' The above verbatim transcription, however, is taken from the Panckouke edition of 1820-30 where it occupies pp. 302-430 and 450-456 of Vol. XXIII, published in 1828. The [slight] differences between the two editions are not collated in the reprint, although the index (p. 139) contains references to both." According to Newton's preface, this was Audouin's only ornithological work. See *Description de l'Égypte* (entered under: France. Commission des monuments d'Égypte, *infra*).

Wood, 207; Zimmer, 18.

## AUDUBON, JOHN JAMES LAFOREST (1770-1851)

96. 1831-39. *Ornithological biography, / or an account of the habits of the / birds of the United States of America; / accompanied by descriptions of the objects represented / in the work entitled / The birds of America, / and interspersed with delineations of American / scenery and manners. / By John James Audubon, F.R.S.S.L. & E. / Fellow of the Linnean and Zoological societies of London [Etc., 5 lines] / Edinburgh: / Adam Black, 55. North Bridge, Edinburgh; / R. Havell Jun., engraver, 77. Oxford Street, and Longman, Rees, / Brown, & Green, London; George Smith, Tithebarr Street, / Liverpool; T. Sowler, Manchester; Mrs Robinson, Leeds; / E. Charnley, Newcastle; Pool & Booth, Chester; and Beilby, / Knott, & Beilby, Birmingham. / MDCCCXXXI.*

Titles of remaining vols. as follows:

<sup>1</sup> Zimmer gives line 2 as "Audoin's" and last word of line 5 as "Syriè."

[*Idem*, 9 lines] / [ *Honors*, 7 lines] / Vol. II. / Edinburgh: / Adam & Charles Black, Edinburgh; / Longman, Rees, Brown, Green, & Longman, London; R. Havell, / engraver, 77. Oxford Street, London; Thomas Sowler, / Manchester; Mrs Robinson, Leeds; Alexander Hill, Edin- / burgh; Beilby, Knott & Beilby, Birmingham; E. Charnley, / Newcastle-upon-Tyne; and George Smith, Liverpool. / MDCCCXXXIV.

[*Idem*, 2 lines] / birds of the United States of America, / [*Idem*, 6 lines] / [*Honors*, 7 lines] / Vol. III. / Edinburgh: / Adam & Charles Black, Edinburgh; / Longman, Rees, Brown, Green & Longman, London; R. Havell, / engraver, 77. Oxford Street, London; Thomas Sowler, / Manchester; Mrs Robinson, Leeds; Alexander Hill, Edin- / burgh; J. Henry Beilby, Birmingham; E. Charnley, New- / castle-upon-Tyne; and George Smith, Liverpool. / MDCCCXXXV.

[*Idem*, 2 lines] / birds of the United States of America, / [*Idem*, 3 lines] / together with an account of the digestive organs of many / of the species, illustrated by engravings on wood. / By John James Audubon, F.R.SS. L. & E. / [*Honors*, 8 lines] / Vol. IV. / Edinburgh: / Adam & Charles Black, Edinburgh; / Longman, Orme, Brown, Green & Longmans, London; R. Havell, / engraver, 77. Oxford Street, London; Alexander Hill, / Edinburgh; and George Smith, Liverpool. / MDCCCXXXVIII.

[*The same as vol. IV*, 9 lines] / [*Honors*, 8 lines] / Vol. V. / Edinburgh: / Adam & Charles Black, Edinburgh; / Longman, Orme, Brown, Green & Longman, London. / MDCCCXXXIX [*Should be MDCCCXXXIX*].

5 vols., 8vo (27.0 × 16.7 cm, untrimmed).

Vol. I: pp. i-xxiv, 1-512, 1-15.

Vol. II: pp. i-xxxii, 1-588.

Vol. III: pp. i-xvi, 1-638; text-figs. 1-9 (woodcuts).

Vol. IV: pp. i-xxviii, 1-618; 39 text-figs. (woodcuts).

Vol. V: pp. i-xxxix [xl], 1-664; 14 text-figs. (in text), 81 text-figs.<sup>1</sup> (in appendix; all woodcuts).

*Contents*—All vols. contain Roman-paged half-title, title, introd., conts., and (in vols. III-V) list of illustrs., and Arabic-paged text, and index to species. Vol. I contains (pp. 1-15 at end) a copy of the prospectus for *The Birds of America* identical to that described separately in this catalogue as No. 100, and each of the succeeding volumes contains a list of new subscribers to *The Birds of America* bound in preceding the index of species. The introd. to vol. I is called an introductory address. The lengthy intros. are dated, respectively, March 1831, 1 Dec. 1834, 1 Dec. 1835, 1 Nov. 1838, and 1 May 1839, and contain considerable information concerning the history of the work. Vols. I-III contain a series, interspersed with the text, of 59 "Delineations of American scenery and manners," much quoted and reprinted (see No. 108) by virtue of its interesting revelations of early American and frontier life. The text treats at length the birds figured in the "elephant folio"<sup>2</sup> plates of the author's *The Birds of America*, 4 vols., 1827-38, as follows: vol. I, plates I-C; vol. II, plates CI-CC; vol. III, plates CCI-CCC; vol. IV, plates CCCI-CCCLXXXVII; vol. V, plates

<sup>1</sup> Not listed by Zimmer.

<sup>2</sup> As commonly described. Bibliographically the format is not folio, but broadsheet.

CCCLXXXVIII-CCCCXXXV. The species accounts, in style flamboyant and wordy by present standards, describe Audubon's diverse field experiences, with remarks on the habits, habitats, and life histories of the birds, and with sometimes extensive descriptions, measurements, and figures (vols. I-III), and appendix of their anatomical details. Additional matter occurs as follows: vol. III, an essay entitled "Remarks on the Form of the Toes of Birds," pp. 629-632; vol. V, "Description of species found in North America, but not figured in the 'Birds of America,'" p. 305-333; "Species seen within the limits of the United States, but not characterized," pp. 334-336; and "Appendix: comprising additional observations on the habits, geographical distribution, and anatomical structure of the birds described in this work; together with corrections of errors relative to the species," pp. 337-646.<sup>3</sup> The anatomical descriptions in vols. IV and V and the figures accompanying them were provided by the painstaking Macgillivray, as duly acknowledged by Audubon (vol. IV, p. xxiii).

According to Zimmer: "Five species of the 'Birds of America' are suppressed in the text, eighteen new species are added, and eleven of those given in the early volumes are reduced to synonymy in the appendix, making 502 species treated in the whole work and 491 species recognized at its close. Two of the suppressed species have since been re-established. Of the total, 29 species date from this work."

This is the principal and only complete edition of the text written to accompany Audubon's "elephant folio" *Birds of America*, 1827-1838, and stands as a classic pioneer work on North American birds. The only earlier effort of comparable intent is Alexander Wilson's *American ornithology*, Philadelphia, 1808-14, *infra* (see also Bonaparte's "supplement" thereto, of 1825-33, *infra*). For historical commentary see Coues' *Key to North American Birds*, pp. xxi-xxiii of 3rd edit., 1887 (*infra*).

Separate editions of each of the first two volumes of the *Biography* were issued at Boston and/or Philadelphia, variously in 1831, 1832, and 1835 (Nos. 97-99). Paraphrasing Zimmer: in 1839 Audubon published his *A synopsis of the birds of North America* (No. 101), making considerable changes in nomenclature, arranging the species systematically, and forming an index to the present work and to the elephant folio plates. In 1839-44 a new edition of the present text was issued together with reworked and much reduced copies of the plates under the original title of *The Birds of America*. In this form several further editions appeared (Nos. 102, 103).

Coues, 1:618-619; Herrick, II:402-404 (bibl.; see whole work for hist.); and *Auk*, 1919:372-380; Stone, W., *Auk*, 1906:298-312 (hist., bibl.); Wood, 207-208; Zimmer, 20-21.

97. 1831. **Ornithological biography**, / or an account of the habits of the / birds of the United States of America; / accompanied by descriptions of the objects represented / in the work entitled / The birds of America, / and interspersed with delineations of American / scenery and manners. / By John James Audubon, F.R.S.S.L. & E. / Fellow of the Linnean and Zoological societies of London [*Etc.*, 6 lines]. / Philadelphia: / Judah Dobson, Agent, 108 Chestnut Street; / and / H. H. Porter, Literary Rooms, 121 Chestnut Street. / MDCCCXXXI.

8vo in fours (27.9 × 18.0 cm, untrimmed). Pp. i-xxiv, 1-512, 1-16.

<sup>3</sup>Zimmer seems to have erred in recording the exact pagination and titles of the various sections of vol. V.

*Contents*—Practically the same as those of vol. I of the Edinburgh edit. (No. 96), including the prospectus.

A separate American edition of volume I of this famous five-volume work, the whole of which was published at Edinburgh, 1831-39 (No. 96). Zimmer summarized the basic differences between the two: "Some of the wording of the introduction is altered; that of the general text appears to be the same with minor changes in punctuation and the correction of at least one minor error. . . . The letterpress is parallel, to a considerable degree, line for line, but there are many places where differences exist; page-references to species, however, remain the same."

Zimmer, 19-20.

98. 1832. *Ornithological biography*, / or an account of the habits of the / birds of the United States of America; / accompanied by descriptions of the objects represented / in the work entitled / *The birds of America*, / and interspersed with delineations of American / scenery and manners. / By John James Audubon, F. R. SS. L. & E. / Fellow of the Linnean and Zoological societies of London [*Etc.*, 6 lines]. / Philadelphia: E. L. Carey and A. Hart—Chesnut [*Sic*] Street. / MDCCCXXXII.

Another issue<sup>1</sup> or impression of the American edition of volume I, first published by Dobson and Porter at Philadelphia, 1831, and identical therewith in setting and every respect except title. This issue or printing, said to be rare, was first described, in some detail, by Braislin (*Auk*, 1918:360-362). Two identical copies are at hand. Both Zimmer (p. 20) and Wood erred in stating that Braislin mentioned a Philadelphia version (of vol. I), with imprint dated 1835.

Wood, 208.

99. 1835. *Ornithological biography*, / or an account of the habits of the / birds of the United States of America; / accompanied by descriptions of the objects represented / in the work entitled / *The birds of America*, / and interspersed with delineations of American / scenery and manners. / By John James Audubon, F. R. S.S. L. & E. / Fellow of the Linnean and Zoological societies of London [*Etc.*, 8 lines]. / Vol. II. / Boston: / Hilliard, Gray, and Company. / MDCCCXXXV.

8vo in fours (27.5 × 17.7 cm, untrimmed). Pp. i-xxxii, 1-588.

*Contents*—Essentially the same as vol. II of the Edinburgh edit., 1834 (No. 96), but differing in minor respects on every page, being from a different setting of type.

A second edition of volume II of the *Ornithological biography* (see No. 96), the only American edition of that volume, and the only edition or version of any volume bearing a Boston imprint.

Braislin, *Auk*, 1918:360-362; Wood, 208; Zimmer, 21.

100. 1831. Under the special patronage / of / Her Most Excellent Majesty, / Queen Adelaide. / [*rule*] / *The birds of America*, / engraved from drawings / made in / the United States and their territories. / By John James Audubon, / [*Honors*,

<sup>1</sup>The possibility that this is a reissue of sheets held over from the original edition and impression (No. 97), rather than a reprinting from held over type, is enhanced by the similarity of size and paper (Braislin, *Auk*, 1918:361) in the two.

5 lines] / Published by the author; / and are to be seen at / Mr R. Havell's jun. the engraver, / 77, Oxford Street, London. / MDCCCXXXI.

8vo (26.9 × 16.8 cm). Pp. [1-3] 4-15 [16].

*Contents*—Title, p. 1; printer's imprint, p. 2; "Prospectus," pp. 3-4; "Contents of Vol. I of The Birds of America," pp. 5-7; "Extracts from Reviews," pp. 8-11; "Names of Subscribers," pp. 12-15; blank, p. 16.

Usually issued as part of Audubon's *Ornithological biography* (No. 96).

101. 1839. A / synopsis of the birds / of / North America. / By / John James Audubon, F. R. SS. L. & E. / Member of various scientific associations in / Europe and America. / Edinburgh: / Adam and Charles Black, Edinburgh; / Longman, Rees, Brown, Green, and Longman, / London. / MDCCCXXXIX.

12mo (21.5 × 13.3 cm, untrimmed). Pp. i-xii, 1-359 [360].

*Contents*—Title; pref. (dated 1 July 1839); conts.; text, pp. 1-359, systematically arranged, giving diagnoses of families, genera, and species of birds covered in the elephant folio *Birds of America* and in the *Ornithological biography* (No. 96), with plate and page references to these, and for each species supplying brief description, range, and synonymy; printer's imprint, p. [360]. Pp. i-ii (half-title?) lacking.

Prepared by Audubon as an index and brief summation of his labors on North American birds. His only later work adding new material of consequence is the appendix to the octavo *Birds of America* (see No. 103), vol. VII, 1844. According to Zimmer: "Two species given in the 'Biography' are suppressed and two others added making the total the same, 491 spp. The work is sometimes ascribed largely to Macgillivray, to whom acknowledgments are made by Audubon in the preface. Several new specific names date from this volume."

One of two copies is interleaved, with scattered, unsigned MS. additions, perhaps by Henry Fraser Walter, whose bookplate the volume bears.

Wood, 208; Zimmer, 21-22.

102. 1860. [The / birds of America; / from / original drawings / by / John James Audubon, / Fellow of the Royal Societies of London & Edinburgh [*Etc.*, 7 lines] / Re-issued by J. W. Audubon. / Vol. I. / Roe Lockwood & Son, / Publishers. / New York / 1860. / Chromolithography by J. Bien, 180 Broadway.] [*Title from Zimmer, p. 24*]

Folio (plates measure 100 × 65 cm), 60 plates (should be 150) on 53 sheets (should be 105).

A fragmentary set of the well-known, incomplete lithographed elephant folio of 1860. Despite claims of the publishers, the plates of this edition are vastly inferior to those of the original "elephant folio" of 1827-1838. The present set is in extremely poor condition: title and more than half of the plates lacking. For details see Zimmer (pp. 24-25) and Herrick (II:389-390, 407).

103. 1861. The / birds of America, / from / drawings made in the United States / and their territories. / By / John James Audubon, F. R. S., &c., &c., / Re-issued by J. W.

Audubon / Vol. I [-VII].<sup>1</sup> / New York: / Roe Lockwood & Son, Publishers. / 1861.

7 vols., 8vo, irregularly signed in twos and fours (26.2 × 16.9 cm).

Vol. I: pp. i-viii 11-246; lith. col. plates 1-70, 2 text-figs.

Vol. II: pp. i-vii [viii] 11-199; lith. col. plates 71-140, 4 text-figs.

Vol. III: pp. i-viii 9-233; lith. col. plates 141-210, 6 text-figs.

Vol. IV: pp. i-viii [9] 10-321; lith. col. plates 211-280, 27 text-figs.

Vol. V: pp. i-viii 9-346; lith. col. plates 281-350, 14 text-figs.

Vol. VI: pp. i-viii 9-456; lith. col. plates 351-420, 25 text-figs.

Vol. VII: pp. [2] i-vii [viii] 9-372; lith. col. plates 421-500, 18 text-figs.

*Contents*—All vols. contain half-title, title, conts., and text. Vol. VII contains the index (pp. 361-372) to the entire work, which consists of the plates from the elephant folio *Birds of America*, 4 vols., 1827-38, reduced by camera lucida, somewhat altered in backgrounds and arrangement, lithographed, and combined with a text which, though the order of species has been changed to correspond with the author's *Synopsis of the birds of North America* (No. 101), is essentially that of his *Ornithological biography* (No. 96). To this have been added the diagnoses of families and genera from the *Synopsis*. The "Delineations of American scenery and manners" from the *Biography* are not included, but the anatomical matter by William Macgillivray and most of his drawings are retained. In addition to the text of the *Ornithological biography*, vol. VII contains a supplement (pp. 330-360 and plates 484-500 in present edit.) describing 17 species not listed in the *Biography* or the *Synopsis*. These are mainly additional forms met with on the author's journey to the upper Missouri River country in 1843, among the new species being Baird's Sparrow, Sprague's Pipit, Bell's Vireo, Western Meadowlark, and Poor-will, whose scientific names date from the first edit. (1844) of this supplement.

Although the lithographs herein do little justice to the great copperplates of the "elephant folio," the octavo *Birds of America* nevertheless provides the most compact assemblage available of Audubon's chief literary and artistic efforts. The difference in number between the 500 plates of this work and the 435 of the original folio results from the addition of the 17 plates of the supplement, from the depiction for the first time of 7 species treated in the *Ornithological biography* and the *Synopsis*, from the separate figuring of various species treated on single plates of the original folio, and from other irregularities detailed by Zimmer (p. 22). The plates of the present set are marked "Lithd. Printed & Cold. by J. T. Bowen, Philad."<sup>2</sup> It bears the bookplate of Eugene Field. The first edition of the work in its present form appeared 1839-44. The appearance of the supplement concluding the set marked the end of Audubon's original ornithological contributions. Subsequent to this no ornithological content was added to the work and, so far as I can ascertain, no changes of importance were made in the text.

104. 1861. *The birds of America*. [*Title identical with No. 103*]

7 vols., 8vo (26.5 × 18.0 cm).

Collation and contents as in No. 103, except that the plates are lacking and the

<sup>1</sup> This period omitted in vol. VI.

<sup>2</sup> Some copies of some of the plates are said (Herrick, II:217) to have been executed by the firm of Endicotts, New York.

index (in vol. VII) is different. This is merely another state of the edition described under No. 103.

105. 1871(?). *The / birds of America, / from / drawings made in the United States / and their Territories. / By / John James Audubon, F.R.S., &c., &c. / Vol. I [-VIII]. / New York: / George R. Lockwood, / late Roe Lockwood & Son, / 812 Broadway.*

8 vols., 8vo (28.3 × 19.0 cm, untrimmed).

Vol. I: pp. i-viii, i-xv [xvi], 11-246; lith. plates 1-70, 2 text-figs.

Vol. II: pp. i-vii [viii] 11-199; lith. plates 71-140 (plates 73, 117, 118 col.), 4 text-figs.

Vol. III: pp. i-viii 9-233; lith. plates 141-210 (plate 168 col.), 6 text-figs.

Vol. IV: pp. i-viii 9-321, lith. plates 211-280, 27 text-figs.

Vol. V: pp. i-viii 9-346; lith. plates 281-350, 14 text-figs.

Vol. VI: pp. i-vii [viii] 9-298; lith. plates 351-394, 19 text-figs.

Vol. VII: pp. i-vii [viii] 9-285; lith. plates 395-440, 12 text-figs.

Vol. VIII: pp. i-viii 9-256; lith. plates 441-500 (plate 491 col.), 12 text-figs.

*Contents*—All vols. contain half-title,<sup>1</sup> title (an extra copy of the title-page is present in vols. I, IV, and V), and text. Also, vol. I contains a short biography of Audubon, unsigned<sup>2</sup> (pp. i-xv), and vol. VIII contains the supplement (see No. 103) to the work (pp. 213-243) and the index (pp. 245-256) to all vols. The text is from the same setting of type as that of No. 103, but is in eight instead of seven vols.

Another impression of John W. Audubon's edition (which is probably the third) of his father's *Birds of America* in its octavo form. The copy in hand is a peculiar variant, in which the plates are mostly uncolored and some of the titles are duplicated (except for these peculiarities the set agrees with Zimmer's entry of "1871?" and Coues' entry of 1871). The extra titles are of interest. In each case the two titles are identical in content and arrangement, but differ in the copyrights on their versos, these reading as follows: (1) "Entered according to Act of Congress in the year 1870, / by George R. Lockwood, / In the Office of the Librarian of Congress at Washington." (2) "Entered according to Act of Congress, in the year 1839, / by J. J. Audubon, / In the Clerk's Office of the District Court of the United States for the Southern District of New York. / C. A. Alvord, printer." In those volumes with a single title, vols. II, VI, VII, and VIII bear the 1839 copyright and vol. III has the 1870 copyright. Except for being uncolored, the plates in the present set are the same as those of No. 103, but the impressions show that the plates were more worn.

Coues, 1:686; Zimmer, 25-26. Also Herrick, II:409 (a variant).

106. 1868. *The / life and adventures / of / John James Audubon, / the naturalist. / Edited, from materials supplied by his widow, / by Robert Buchanan. / [Vign. (portr.)] / Audubon at Green Bank, Liverpool. (From a drawing by himself.) Sept 1826 / London: / Sampson Low, Son, & Marston, / Crown Buildings, 188, Fleet Street. / 1868. / [The Right of Translation is reserved.]*

8vo (22.0 × 14.4 cm). Pp. i-viii 1-366, [2], 1-24 (mis-printing p. viii as vii); front. (portr.).

*Contents*—Half-title; title; editor's pref., pp. v-viii (signed R. B., London, Oct. 1,

<sup>1</sup> Lacking from Ellis copies of vols. III and V, but allowed for in pagination.

<sup>2</sup> A variant or version recorded by Herrick (II:409) has this biography signed "G. R. L[ockwood]."

1868); text, pp. 1-366, chapters I-LVIII, being excerpts from Audubon's diaries and published writings connected by a running editorial commentary; advt., 2 pp.; second advt., pp. 1-24.

The manuscript upon which this work was based was assembled by the Rev. Charles Coffin Adams with the assistance of Audubon's widow, Lucy, who then possessed many of her husband's original journals. While in the hands of the publishers, and without authorization from Mrs. Audubon, this manuscript was ruthlessly edited and abridged by Robert Buchanan, a minor poet and author of the times, and Lucy Audubon was unable to recover the original. Two new editions (true status unknown) are said to have been published in 1869, and another in 1912. Meanwhile, Mrs. Audubon brought out an edition of her own, re-edited with the exclusion of "objectionable" matter, in 1869, and her version appeared again under date of 1890. The work is said to contain many errors, not all corrected in Mrs. Audubon's version, but is today of considerable value, as it contains portions of journals no longer extant and apparently not elsewhere published. Robert Buchanan's treatment of Audubon, unperceptive and unsympathetic as it is, does not seem so bad today as it must have to the widow in 1868; Buchanan's real crime consisted not of his judgment of Audubon but of his deletion of four-fifths of a unique document.

Herrick, I:18-22 (hist.); Zimmer, 25 ("third edit.," 1869), 26 (Lucy Audubon version, dated 1890); Wood, 209.

107. 1898. *Audubon and his / journals / By / Maria R. Audubon / With zoölogical and other notes by Elliott Coues / With Thirty-seven Illustrations, including Three hitherto / unpublished Bird Drawings, and Ten / Portraits of Audubon / In two volumes / Volume the first [second] / London / John C. Nimmo / 14 King William Street, Strand / MDCCCXCVIII.*

2 vols., 8vo (22.4 × 15.0 cm, untrimmed).

Vol. I: pp. i-xiv, 1-532; front. (portr.), 20 half-tone plates (3 ornith.), 1 line-cut.

Vol. II: pp. i-viii, 1-554 [2]; front. (ornith.), 22 half-tone plates (1 ornith.), 1 line-cut.

*Contents*—Both vols. contain half-title and title (copyright on v. dated 1897, by Charles Scribner's Sons), conts., and list of illustrs.; also, vol. I contains ded. and pref., pp. vii-x (signed M.R.A.), and vol. II contains index to entire work. Text divided as follows: (vol. I) biographical sketch, pp. 1-77; European journals, 1826-1829, pp. 79-342; Labrador journal, 1833, pp. 343-445; Missouri River journal, 1843, pp. 447-532—part; (vol. II) Missouri River journal, pp. 1-195—concluded; "Episodes," pp. 197-527. The last are the "delineations of American scenery and manners" from the *Ornithological biography* of 1831-39 (No. 96), with one addition and three omissions, and are here reprinted for the first time.

"To [Maria Audubon] all admirers of Audubon owe a debt of gratitude for giving to the world for the first time a large part of his extant journals, as well as many new facts bearing upon his life and character" (Herrick). The importance of the book is now greater still, since, according to Howard Corning (*cf.* No. 110; introd.), only two of Audubon's diaries now seem to be in existence, the rest, presumably including those extensively quoted in the present work, having been destroyed by the Audubon family.

The present work was first published in New York in 1897 (Charles Scribner's Sons) under a slightly different title-page, the pagination, number of plates, and probably the text and type being the same. A facsimile edition has recently appeared (New York, Dover, 1960).

Herrick, 1:22 (hist.); Wood, 209 (dated 1897); Zimmer, 26-27 (1897). Reviewed: *Auk*, 1898:198-205 (J. A. Allen).

108. 1926. *Delineations / of / American scenery / and / character / by / John James Audubon / With an introduction / by / Francis Hobart Herrick, Ph. D., Sc. D. / Professor of Biology in Western Reserve University / [Etc., 2 lines]. / G. A. Baker & Company / New York 1926.*

8vo (24.6 × 16.1 cm, untrimmed). Pp. i-xlix [1], 1-349; half-tone front. (from mezzotint portr. by F. Cruickshank).

*Contents*—Half-title, pp. i-ii; 1 leaf (tipped in; "Large paper copy, with mezzotint portrait by F. Cruickshank. Of only 42 copies printed this is No. 11. F. Walters" (copy number and signature in manuscript)); title; conts.; brief bibl. of Audubon; introd., pp. ix-xix; 2 author's prefs., pp. xxi-xli, xliii-xlix (signed by John J. Audubon, Edinburgh, 1 Dec. 1834 and 1 Dec. 1835, being from the *Ornithological biography*); text, being the 59 "delineations of American scenery and manners" originally interspersed in the *Ornithological biography* of 1831-39 (No. 96).

Audubon's "delineations," besides including a good deal of ornithological interest, cover a wide field of Americana and possess considerable literary merit. They have been several times collected and republished, in whole or in part (see Nos. 107, 109, 112).

Reviewed: *Auk*, 1927:127-128 (Witmer Stone).

109. 1926. *Delineations / of / American scenery / and / character / by / John James Audubon / With an introduction / by Francis Hobart Herrick, Ph. D., Sc. D. / Professor of Biology [Etc., 3 lines]. / Simpkin, Marshall, Hamilton, Kent & Co., Ltd. / London 1926.*

8vo (23.7 × 15.7 cm). Pp. i-xlix [1], 1-349; front. (portr., by Henry Inman).

The text is from the same setting of type as No. 108.

110. 1929. *Journal / of / John James Audubon / made during his trip to / New Orleans in 1820-1821 / Edited by / Howard Corning / Foreword by / Ruthven Deane / [Vign.] / Cambridge / The Business Historical Society / MCMXXIX.*

8vo (24.4 × 16.2 cm, untrimmed). Pp. [2] i-ix [x], 1-234 [235-236].

*Contents*—2 blank leaves (second = pp. [i]-[ii]); half-title, p. [iii]; blank, p. [iv]; title, p. [v]; copyright, by Club of Odd Volumes, 1929, p. [vi]; introd., pp. vii-viii; foreword, p. ix; blank, p. [x]; text, pp. 1-234 (with repeated half-title on p. 1 and p. 2 blank); printer's note, p. [235], blank, p. [236]. The text is a transcript of Audubon's journal from Oct. 12, 1820, to Dec. 31, 1821, with illegibilities, substitutions, etc., duly indicated. A wealth of original ornithological observations made between Cincinnati, Ohio, and New Orleans, Louisiana, is included, as well as much of historical interest.

A valuable document, first published by the Club of Odd Volumes, Boston, in a limited issue of 225 copies. The present issue is from the same setting of type but differs in paper, title, and binding, and lacks the frontispiece of the first. It was released as a companion volume to the following (No. 111).

This remains the only complete, published text of the journal in question, although a few extracts therefrom were published by Ruthven Deane (*Auk*, 1904:334-338).

Reviewed: *Auk*, 1930:431-432 (Witmer Stone).

111. 1929. *Journal / of / John James Audubon / made while obtaining subscrip- / tions to his "Birds of America" / 1840-1843 / Edited by Howard Corning / Foreword by / Francis H. Herrick / [Vign.] / Cambridge / The Business Historical Society / MCMXXIX.*

(24.4 × 16.2 cm, untrimmed). Pp. i-x, 1-173.

*Contents*—Half-title, p. [i]; blank, p. [ii]; title, p. [iii]; copyright, by Club of Odd Volumes, 1929, p. [iv]; foreword, pp. v-vii; introd., pp. ix-x; text, pp. 1-173, a literal transcript of Audubon's journal (with the correction of a few obvious errors), covering entries from Aug. 11, 1840, to Oct. 11, 1842, and containing much historical information concerning his efforts to promote his works.

A companion volume to No. 110. Differs from the Club of Odd Volumes issue in the same ways as No. 110, with which it is uniform. As noted, the actual entries in the journal do not extend to 1843 as implied in title.

Reviewed: *Auk*, 1930:431-432 (Witmer Stone).

112. 1940. *Audubon's / America / the narratives and experiences of / John James Audubon / [Orn.] / Edited by Donald Culross Peattie / Illustrated with facsimiles of Audubon's prints and paintings / Houghton Mifflin Company. Boston / The Riverside Press Cambridge.*

(28.8 × 19.4 cm, untrimmed). Pp. i-ix [x], 1-329; col. front. (portr.), 16 col. plates, endpaper maps.

*Contents*—Half-title; title; acknowledgments; conts.; list of illustrs.; text, consisting primarily of selections from the text of the *Ornithological biography* of 1831-39 (No. 96) and the "Delineations of American scenery and manners" interspersed through that work, with the inclusion of some additional matter, all connected by editorial commentary; index.

Title and contents self-explanatory. An attractive book.

#### AUDUBON, JOHN WOODHOUSE (1812-1862)

113. 1906. *Audubon's western / journal: 1849-1850 / Being the MS. record of a trip from New York to / Texas, and an overland journey through Mexico / and Arizona to the gold-fields of California / by / John W. Audubon / With biographical memoir by his daughter / Maria R. Audubon / Introduction, notes, and index by / Frank Heywood Hodder / Professor of American History, University of Kansas / With folded map, portrait, and original drawings / [Device] / Cleveland / The Arthur H. Clark Company / 1906.*

8vo (24.0 × 16.2 cm, untrimmed). Pp. 3-249 [250], [10]; fotogr. front. (portr.), 5 half-tone plates, fold. map.

*Contents*—Half-title; title; conts.; list of illustrs.; introd.; biographical memoir, pp. 21-38; text, pp. 39-240, chapters I-VII, being the narrative of the trip outlined in title; appendix, pp. 241-243 (list of members of the original company); index, pp. 246-249; advt. Occasional references to birds occur in the text.

The work is mainly of historical interest.

Zimmer, 27; Wood, 209. Noticed: *Auk*, 1906:128.

#### AUSTIN, OLIVER LUTHER, JR. (1903- )

114. 1932. *Memoirs of the Nuttall Ornithological Club / No. VII / The birds / of / Newfoundland Labrador / By Oliver Luther Austin, Jr. / With map / Cambridge, Massachusetts / Published by the Club / September, 1932.*

4to (27.7 × 21.5 cm). Pp. [4] 1-229; fold. map.

*Contents*—Title, 1 leaf; pref., 1 leaf; text, with introd., pp. 1-22 (description of area, origin and history of avifauna) and an annotated list of the birds, pp. 23-201, giving detailed data and observations for each form; bibl., pp. 203-219; index, pp. 221-229.

A thorough and valuable work. Literature and available manuscript material are compiled and summarized and added to the author's extensive personal observations.

Reviewed: *Auk*, 1933:127-128 (Witmer Stone).

#### THE AUSTRALIAN MUSEUM, SYDNEY

115. 1889. *The Australian Museum, Sydney. / Memoirs, No. 2. / Lord Howe Island. / Its / Zoology, Geology, and Physical Characters. / Printed by order of the Trustees, / E. P. Ramsay, Curator. / Sydney: Charles Potter, Government Printer. / 1889.*

8vo (24.3 × 15.4 cm). Pp. [8], 1-132; front. (fold. map), lith. plates 1-3, IV-VII (plate 1 of birds' eggs), fold. photolith. plates VIII-X (maps, plate X col.).

*Contents*—Title; pref.; conts.; list of plates; text, completely divided, ornithology appearing on pp. 8-18 (in section entitled "The General Zoology of Lord Howe Island"; by R. Etheridge, Jr.) and pp. 43-48 ("Notes on the Oology of Lord Howe Island"; by A. J. North).

Useful notes on the ornithology of the island, as well as on other branches of natural history. An association copy with original paper covers bound in, autographed by J. Whitelegge, one of the members of the expedition of August-September, 1887, to Lord Howe Island on which the work is largely based. Pasted in is a faded photograph (19.8 × 13.2 cm.) labelled in ink "Lord Howe Island Expedition Australian Museum Party 1887." Among individuals labelled in the picture are Whitelegge and Etheridge. Bookplate: Thomas Parkin.

Wood, 212.

## AYMAR, GORDON CHRISTIAN (1893- )

116. 1935. *Bird Flight* / Written & designed by / Gordon C. Aymar / [Photo.] / A collection of 200 / action photographs / [Decor.] / Dodd, Mead 1935.

(23.5 × 17.6 cm). Pp. i-xii, 1-234; photogr. front., 1 text-drawing (by G. Heilmann), text-figs. 1-6 (line-cuts), 2 text-figs. (line-cuts), 195 text-photos., end-paper photos.

*Contents*—Half-title (front. on v.); title; ded.; acknowledgments; introd.; conts.; text, chapters I-IV, a brief, popular account of the mechanics of bird flight, the broad features of migration, etc., well illustrated; bibl., pp. 228-229; index, pp. 231-234.

Title and contents self-explanatory. A handsome and useful book.

Reviewed: *Auk*, 1936:236-237 (Witmer Stone).

## BABAULT, GUY

117. 1920. *Mission Guy Babault / dans les provinces centrales / de l'Inde / dans la région occidentale de l'Himalaya et Ceylan / 1914 / Résultats scientifiques / Oiseaux / collectionnés au cours de la mission / par G. Babault / Membre Correspondant du Muséum National d'Histoire Naturelle / Paris, 1920 / Tous droits de traduction et de reproduction réservés.*

4to (28.0 × 22.0 cm). Pp. [2] 1-342 [2]; photogr. plates I-VI (21 photos. in all), lith. col. plates I-VI (ornith.; by A. Millot), 2 fold. col. maps, 1 photogr. text-fig.

*Contents*—Title, 1 leaf; "Avant-propos," pp. 1-3; text, in three sections, one for each of the regions visited by the author, as follows: Central Provinces of India, pp. 5-101; Western Himalayas, pp. 103-263; Ceylon, pp. 265-332. Index, or "Table alphabétique," pp. 333-342; errata, p. 342; printer's imprint, 1 leaf. The systematic catalogue of birds observed and collected in each section is preceded by descriptions of stations visited, and the section on the western Himalayas contains "Considérations sur la composition de la faune ornithologique," pp. 103-109. The systematic catalogues give for each species name, synonymy, soft-part colors, breeding condition, and stomach contents of specimens, list of specimens, and discussion of distribution, habits, etc. Several new species are described.

A basic faunal work. In 1921 a companion volume of more popular nature, describing the expedition, was published at Paris, under title of *Recherches zoologiques dans les provinces centrales de l'Inde et dans les régions occidentales de l'Himalaya*.

Wood, 214; Zimmer, 28-29. Reviewed: *Ibis*, 1922:573-574.

## BABINGTON, CHURCHILL (1821-1889)

118. 1884-86. *Catalogue / of / the birds of Suffolk; / with an / introduction and remarks on their distribution, / by / Churchill Babington, / D.D., V.P.R.S.L., F.L.S., Etc., / [Honors, 3 lines] / London: / John Van Voorst, Paternoster Row. / 1884-1886.*

8vo in fours (21.2 × 13.6 cm). Pp. [8], 1-281; front., photogr. plates I-VII, col. map.

*Contents*—Title; ded.; explanation of map; conts.; text, with introd., pp. 1-20, and annotated catalogue of the birds of Suffolk, pp. 21-228; appendix, giving accidental visitors and additional localities in other forms, pp. 229-257; Distribution of the birds of Suffolk, pp. 258-274; postscript (on slip); corrigenda and addenda, pp. 275-276; index, pp. 277-281. The text gives abundant and detailed data for each species.

An excellent regional work, which originally appeared in the *Proc. Suffolk Inst. Archaeology and Nat. Hist.*, vol. V, nos. IV-V, 1884-1886. Pp. through 110 of the present reprint were issued in 1884, the remainder in 1886.

Mullens and Swann, 33; Wood, 215. Reviewed: *Ann. & Mag. Nat. Hist.*, ser. 5, vol. 18:319-320, 1886.

#### BACKHOUSE, JAMES (1794-1869)

119. 1844. A narrative / of / a visit / to / the Mauritius / and / South Africa, / by / James Backhouse. / Illustrated by two maps, sixteen etchings, / and twenty-eight woodcuts. / London: / Hamilton, Adams, and Co. Paternoster Row, / York: John L. Linney, Low Ousegate. / MDCCCXLIV.

8vo (22.2 × 14.0 cm). Pp. i-xvi, 1-648, i-lvi; front., 15 plates (etchings), 28 text-figs. (woodcuts), 2 fold. maps.

*Contents*—Title; conts.; list of plates and errata; introd., pp. xv-xvi (York, 20 March, 1844); text, pp. 1-648, in chapters I-XXXVI; appendices A-G, pp. i-lvi, devoted to miscellaneous subjects. Casual references to birds are scattered more or less throughout the text.

Of little ornithological importance. Wood (215) apparently gave the collation of the present volume under the title of another work by the same author (*Narrative of a Visit to the Australian Colonies*; cf. BMNH, I:81). Bookplate: Joseph Bevan Braithwaite.

#### BACKHOUSE, JAMES (1825-1890)

120. 1890. A handbook / of / European birds, / for the use of / field naturalists and collectors. / By / James Backhouse, Jun., F.Z.S., / [*Honors, 3 lines*] / London: / Gurney and Jackson, I, Paternoster Row / (Successors to Mr. Van Voorst). / York: William Sessions, Low Ousegate. / 1890.

8vo (18.2 × 12.3 cm). Pp. i-vii [viii], 1-334 [335-336]; front. (line-cut, showing parts of a bird).

*Contents*—Half-title, 1 leaf (line-cut on v.); title; pref.; errata; text, pp. 1-311, a systematically arranged synopsis of European birds describing plumages and giving notes on distribution and (very briefly) habitat; appendices A and B, pp. 313-316, list exotic species occurring occasionally in Europe; index, pp. 317-334; printer's imprint, p. [335].

A helpful guide in its time, despite the absence of illustrations.

Wood, 215. Reviewed: *Ibis*, 1890:371-372.

BAEDEKER, FRIEDRICH W. J. (1788-1865); CHRISTIAN LUDWIG BREHM  
and CARL WILHELM GOTTFRIED PAESSLER

121. 1855-63. *Die Eier / der / europaeischen Voegel / nach der Natur gemalt / von / F. W. J. Baedeker. / Mit einer Beschreibung des Nestbaues / gemeinschaftlich bearbeitet mit / L. Brehm und W. Paessler. / Herausgegeben und verlegt von J. Baedeker. / Leipzig und Iserlohn 1863.*

2 vols. (?) in one, folio (40.5 × 30.5 cm). Ff. [17],<sup>1</sup> [181];<sup>2</sup> lith. col. plates 1-80.

*Contents*—Title, 1 leaf (above); second title, 1 leaf (as follows: “Die Eier / der / europäischen Vögel / nach der Natur gemalt / von / Fr. W. J. Bädeker. / Mit einer Beschreibung des Nestbaues / von / Ludwig Brehm. / Herausgegeben und verlegt von J. Bädeker. / Iserlohn, 1855.”); lith. title (“Die / Eier / der / europäischen / Vögel.”); ded., 1 leaf (“Der Deutschen Ornithologen-Gesellschaft gewidmet.”); Vorwort, 1 leaf (signed Ludwig Brehm, Renthendorf, May 1855); Einleitung, 1 leaf; Inhalts-Verzeichniss, 3 leaves; “Zusätze und Berichtigungen,” 8 leaves, consisting of additions and corrections to Lieferungen I-VII but incongruously bound in a wrapper marked “Dritte Lieferung”; text, 181 leaves, giving detailed descriptions of the nests and eggs of the species treated as well as some material on the birds themselves; prospectus (dated August 1855) pasted to binder’s leaf.

The plates of this ambitious and handsome work are fine. They were executed by Baedeker and engraved by Arnz & Co., Düsseldorf. The text is by Brehm and Paessler. The work was issued in 10 parts (“Lieferungen”) given by Anker as “. . . Part I, 1855; 2-7, 1857-61; 8-10, 1862-63), each consisting of eight coloured plates with accompanying text . . .” Anker’s copy is in 4 volumes with undated title-pages, but the work is sometimes found in 2 volumes (*cf. Nissen*) or in 1 (present copy, *cf. Zimmer*). The second title in the present copy (see contents) is unlike any I have seen transcribed. It may have been issued with part I to be replaced upon completion of the work. The somewhat indefinite dating of the various parts was reviewed by Zimmer, the preponderance of evidence being that publication was accomplished between 1855 and 1863. Both the *Zoological Record* for 1867 and *The Ibis* (1868:341) state that the work was completed in 1863. Zimmer concluded: “The [reference in *Zoological Record*] is from a citation of a supplement to the present work consisting of 4 ll. (16 pp.), supposed to have been issued in 1866 by Paessler.”<sup>3</sup> Anker and Nissen, incidentally, date the supplement 1867, without comment, but the *Zoological Record* for 1867 (p. 76) says: “published, we believe, at the end of last year.”

Anker, 21; BMNH, I:82; Nissen, 54; Wood, 215; Zimmer, 29.

BAERG, WILLIAM J. (1885- )

122. 1931. University of Arkansas / College of Agriculture / Agricultural Experiment Station / [Three lines] / *Birds of Arkansas* / W. J. Baerg / Bulletin No. 258 / Dan T. Gray, Director / Fayetteville, Arkansas / January, 1931.

<sup>1</sup> Zimmer gives 9 leaves, his copy evidently lacking 8 leaves of addenda etc.

<sup>2</sup> Zimmer gives 81 leaves, probably by typographical error.

<sup>3</sup> Someone appears to be in error: *The Zool. Record* gives 4 leaves; *The Ibis*, 1868:342, footnote, gives 16 pp.

(22.9 × 15.3 cm). Pp. 1-197; front., text-figs. 1-37 (1 line-cut, 36 photos.).

*Contents*—Title, p. 1; front., p. 2; text, with miscellaneous introd. material, pp. 3-24, and an annotated list of Arkansas birds, pp. 24-182, giving description, range, and brief comments on status; index, pp. 183-197.

A briefly annotated, popular account providing a list more recent than that in A. H. Howell's *Birds of Arkansas*, 1911, and H. E. Wheeler's work of the same title (Arkansas Bur. Mines, Manufacture, and Agric., 1924). A revised edition was published in 1951.

Reviewed: *Auk*, 1931:301 (Witmer Stone).

BAIKIE, WILLIAM BALFOUR (1825-1864) and ROBERT HEDDLE

123. 1848. *Historia naturalis / Orcadensis. / Zoology. / Part I. / Being a catalogue of the Mammalia and birds / hitherto observed in the Orkney Islands. / By / W. B. Baikie, M. D. / and / Robert Heddle. / Edinburgh: / printed by J. and W. Paterson, 52, Bristo Street. / 1848.*

8vo in fours (22.3 × 13.9 cm). Pp. i-x 11-104.

*Contents*—Title; errata (slip, between pp. ii and iii); uncaptioned introd. comment, pp. iii-v, dated Edinburgh, Feb. 10, 1848; books consulted, p. vi; conts.; text (mammals, pp. 11-24; birds, pp. 25-96), giving very brief notes on status of each species, with synonyms and references; addendum, notes, etc., pp. 97-99; index, pp. 101-104.

A thorough and competently executed little work, considering its date and scope. There are two copies in the collection, the one described above bearing a slip of errata not mentioned by Mullens and Swann, together with clippings from the *Newcastle Daily Journal* of "9. 9. 95" and "10. 9. 95" entitled "Orkney and its Bird Life (by a Newcastle Man.)." Also laid in is a printed slip, "More Important Corrections. / 1856.—R. M.," containing nine further changes.

Wood, 215; Mullens and Swann, 35-36.

BAILEY, BERT HEALD (1875-1917)

124. 1918. *Iowa / Geological Survey / Bulletin No. 6 / The raptorial birds of Iowa / By Bert Heald Bailey, M. S., M. D. / [Quot., 1 line] / George F. Kay, Ph. D. State Geologist, / James H. Lees, Ph. D., Assistant State Geologist / [Seal] / Des Moines / Published for the Iowa Geological Survey / 1918.*

8vo (22.9 × 14.5 cm). Pp. 1-238; text-figs. 1-93 (53 photos., several full-page; 40 maps).

*Contents*—Title; letter of transmittal; conts.; list of illustrs.; editor's pref. (signed Clementina Sinclair Spencer, Coe College, June, 1918); memorial note (biographical details of author, by C. S. Spencer); publications of B. H. Bailey; text, with introd. material describing area, method of work, etc., pp. 19-45, and detailed material on the hawks and owls of Iowa, pp. 46-234, including descriptions, ranges, stomach

contents of locally taken specimens, local bibl., and notes on habits, etc., for each species; index, pp. 235-238.

Title and contents self-explanatory.

Zimmer, 29-30; Wood, 215. Reviewed: *Auk*, 1920:156-157 (Witmer Stone).

BAILEY, FLORENCE AUGUSTA MERRIAM (1863-1948)

125. 1899. *Birds / through an opera-glass / By / Florence A. Merriam / [Device] / New York Cleveland Chicago / The Chautauqua Press.*

(18.5 × 11.3 cm). Pp. i-ix [x], 1-225; 16 ornith. engr. text-figs.

*Contents*—Title (note on v. reads: "This edition . . . is issued for the Chautauqua Press by Houghton, Mifflin & Co., publishers. . ."); introd. (Washington, May 11, 1899); conts.; text, pp. 1-205, consisting of 70 descriptions of common eastern birds for the beginner; appendix, pp. 206-219, including a non-technical statement of family characters, classifications by habitat, size, color, song, and other features; references, pp. 221-222; index, pp. 223-225.

Written with skill and charm, though now somewhat dated in style. According to Zimmer, the work was first published as "No. 3 of the Riverside Library for Young People" (Boston and New York, Houghton, Mifflin and Co., 1889) and "the illustrations are from Baird, Brewer and Ridgway's 'A History of North American Birds,' 1874." Many of the accounts appeared for the first time in *The Audubon Magazine*, 1886 (Brewster), but were revised and partly rewritten for this work.

I do not know whether the present version is from the original setting of type. Clearly the introduction is new. According to a MS. note by Ralph Ellis (citing T.

S. Palmer), the work in the present form is rare; I have so far found no other reference to it. Release in 1899 is indicated by the autograph of a former owner, dated August 24 in that year.

Zimmer, 30; Wood, 215. Reviewed: *Auk*, 1889:330 (William Brewster). All references to date of 1899.

126. *post 1901 (?)*. *Birds / of village and field / A Bird Book for Beginners / By / Florence A. Merriam / Illustrated / [Device] / Boston and New York / Houghton Mifflin Company / The Riverside Press Cambridge.*

(18.6 × 12.5 cm). Pp. [2] i-xlix [1], 1-406; half-tone plates I (front., by Seton), II-XXVIII (1 photo., and drawings by E. S. Thompson, L. A. Fuertes, and J. L. Ridgway), text-figs. 1-220 (line-cuts), 75 text-figs. (line-cuts, mainly of parts of birds, in "field color key").

*Contents*—Advt., on 2nd preliminary page (1st blank); title (copyright, 1898, on v.); prefatory note (dated June 1, 1897), pp. iii-vi; conts.; introd., pp. xiii-xxviii; "Field color key to adult spring males," pp. xxix-xlix; text, pp. 1-363, giving pleasantly written, informative accounts, preceded by short descriptions and statements of range, of 154 better-known kinds of birds, with keys to some of the groups; appendix, pp. 365-394, giving information on migration, winter birds, field observation, references, etc.; index to illustrs., pp. 395-398; index, pp. 399-406.

One of several popular works by the author, the present one was first published in 1898 with title so dated. The copy in hand evidently represents a later impression, undated, but was probably not printed before 1902, since the author's *Handbook* (No. 127) of that date is listed in the advertisement.

Wood, 215; Zimmer, 30 (date of 1898). Reviewed: *Auk*, 1898:206-207 (J. A. Allen).

127. 1927. *Handbook of birds / of the / western United States / including / the Great Plains, Great Basin, Pacific Slope, and / lower Rio Grande Valley / By / Florence Merriam Bailey / With thirty-three full-page plates by / Louis Agassiz Fuertes, and over six / hundred cuts in the text / Revised edition / [Device] / Boston and New York / Houghton Mifflin Company / The Riverside Press Cambridge / 1927.*

(18.1 × 11.5 cm, untrimmed). Pp. [2] i-li [lii] 1-590, front., 32 half-tone plates (by Fuertes), text-figs. 1-601 (including drawings by Fuertes, Seton, and others), diagram of bird, map.

*Contents*—Advt., 2nd preliminary page (1st blank); title (copyright on v., 1902 and 1917, with the notations “Published November, 1902” and “tenth printing, 1927”); prefatory note (to first edit., Washington, D.C., Oct. 1902); pref. notes (dated May 1914 and Oct. 23, 1916) to “fourth” and “fifth” edits., p. iv; conts.; list of illustrs.; introd., pp. xxv-li; miscellaneous material, including bibl. references; topography of a bird (unnumb. fig. on p. [lii]); text, pp. 1-477 (keys to orders on pp. 1-4), systematically arranged, with keys to families, genera, and species, and for each species brief description, notes on distribution, nest, and general commentary; appendix, pp. 479-485 (“Field color key to genera of some of the common passerine birds”); addenda, pp. 486-564, including Proposed changes in western birds of the A.O.U. Check-List 1913-1920, Revised ranges of western birds, and Supplementary references issued chiefly since 1902; index, pp. 565-590. Some of the accounts were written by other authors, especially Vernon Bailey, who also prepared a section on the preservation of specimens, pp. xxvi-xxxiii. A section on bird protection, pp. xxxix-xliii, is the work of T. S. Palmer.

First published in November, 1902, this work has been for many years a standard reference on western birds and is still a useful one. It was patterned after F. M. Chapman's *Handbook of birds of eastern North America* (infra), but was not revised and kept up to date so thoroughly as the latter, which it has never quite equalled in quality or organization.

Several impressions have been labelled editions, but available indications suggest that there has been only one edition in the strict bibliographic sense. This could not be determined positively, of course, without comparison of all impressions, of which there seem to have been at least 11. At least 6 impressions have embodied revisions (largely confined to nomenclatural changes and other alterations and occurring chiefly in the addenda), but there has seemingly never been a complete revision of the text. I am aware of no changes in the work after those incorporated in the impression of 1921 (fifth “edition,” eighth printing, addenda corrected to 1920; see Zimmer). A tenth impression (present copy) appeared in 1927, and an eleventh (No. 128) in 1935; there may have been more. A rough idea of the publication and revision of the work may be obtained from the following sources and reviews:

Wood, 215 ([1908]), 216 (1921); Zimmer, 31 (1921, "5th edit.," corrected to 1920). Reviewed: *Auk*, 1903:76-78 (J. A. Allen, first edit., 1902); 1904:299 (J.A.A., "2nd edit., revised," date not given); 1909:102 (J.A.A., "3rd edit., rev.," date not given— "[1908]" according to Wood); 1915:115 (Witmer Stone, "4th edit., rev.," 1914); 1917:350 (Witmer Stone, "7th [?] edit.," date not given). The last may in fact be the seventh impression, and is probably the "5th edition," the prefatory note to which (see contents, above) was dated October 23, 1916, and stated that this "edition" had the addenda corrected to 1916.

128. 1935. *Handbook of birds / of the / western United States / [As No. 127, 13 lines] / 1935.*

Another impression, identical except for date with that of 1927 (No. 127).

129. 1928. *Birds of New Mexico / By / Florence Merriam Bailey / Author of Handbook of birds of the western United States / With Contributions by the Late / Wells Woodbridge Cooke / Formerly Assistant Biologist of the Biological Survey / Illustrated with Colored Plates by / Allan Brooks / Plates and Text Figures by the Late / Louis Agassiz Fuertes / And Many Other Cuts from Drawings, Photographs, and Maps / Based mainly on field work of the Bureau / of Biological Survey, United States / Department of Agriculture / [Orn.] / Published by the New Mexico Department of Game and Fish in Cooperation / with the State Game Protective Association and the / Bureau of Biological Survey / 1928.*

(24.7 × 17.2 cm). Pp. i-xxiv, 1-807; plates 1 (front.), 2-79 (25 col.), text-figs. 1-136 (half-tones, line-cuts, etc.), maps 1-60, 2 diagrams.

*Contents*—Half-title; title; acknowledgment; pref. (by Paul G. Redington, dated Oct. 31, 1928); errata; conts.; list of illustrs.; text, with introd. material (pp. 1-13), itineraries and reports of field work in the state (by Cooke, pp. 15-36), localities visited by observers (by Cooke, pp. 37-68), glossary (pp. 69-71), and accounts of species (pp. 73-762); literature cited, pp. 763-793; abbreviations, p. 794; index, pp. 795-807. The text is detailed, species accounts giving much information in general and on New Mexican birds, under the headings Description, Range, State records, Nest, Food, General habits, and Additional literature.

A comprehensive and useful book, for which Mrs. Bailey received the Brewster Award of the American Ornithologists' Union. It is one of the more sumptuous of American "state ornithologies," and the only work of its scope and type dealing with the southwestern United States. The accounts of "state records" in the text were compiled largely by Wells W. Cooke, to whom goes a good share of credit for the utility of the work.

Wood, 216. Reviewed: *Auk*, 1929:125-127 (Witmer Stone).

BAILEY, HAROLD HARRIS (1879- )

130. 1913. *The Birds of Virginia / By / Harold H. Bailey / [Decor.] / With fourteen full page coloured plates, / one map, and one hundred and eight / half-tones taken from nature / treating one hundred and eighty-five species and subspecies; / all the birds that breed within the state. / 1913 / J. P. Bell Company, Inc. / Publishers / Lynchburg, Va.*

8vo (21.5 × 14.3 cm). Pp. i-xxiii [xxiv], 1-362; col. front., 13 col. plates (by Earl L. Poole), 91 full pages included in pagination contain 108 half-tones<sup>1</sup> (photos. of nests, young birds, habitats, etc.), fold. map.

*Contents*—Title; ded.; index; list of col. plates; list of half-tones; pref.; "Introductory," pp. xix-xxiii; text, pp. 1-362 (including photos.), giving for almost every species distribution and breeding status in Virginia, sometimes with egg-dates, records, etc. The work treats only breeding or supposedly breeding species and was evidently hastily prepared. Most statements are inadequately documented in the text and there is no bibl.

A popularly-written work, which contains some useful records despite the deficiencies noted above. This copy signed by the author.

Wood, 216; Zimmer, 31. Reviewed: *Auk*, 1913:594-595 (Witmer Stone).

BAILEY, VERNON ORLANDO (1864-1944)

131. 1928. Monographs of the / American Society of Mammalogists / Number 3 / *Animal Life / of the / Carlsbad Cavern / By / Vernon Bailey / Biologist, United States Biological Survey / [Fig., of antelope] / Baltimore / The Williams & Wilkins Company / 1928.*

(20.3 × 13.5 cm). Pp. i-xiii [xiv], 1-195 [196] [4]; front., text-figs. 1-67 (with col. map, 3 wash drawings of birds by Fuertes, and many photos.; figs. unusually arranged, on one or both sides of 20 glossy leaves, which are paged but are not part of sigs. of the book).

*Contents*—Advt., listing monographs and other publications of the American Society of Mammalogists, pp. i-iv; half-title, p. v; title; conts.; list of illustrs.; text, chapters 1-4 being general in nature or describing the region in question, chapters 5-8 dealing with systematic groups (birds, chapter 6, pp. 130-162); index, pp. 187-195; note and advt., 2 leaves.

Popular in nature but includes specific records and other information of value to the specialist.

Wood, 216. Reviewed: *Auk*, 1928:251 (Witmer Stone).

132. 1930. *Animal life of / Yellowstone / National Park / By / Vernon Bailey / Chief Field Naturalist / United States Biological Survey / [Seal] / Charles C Thomas Publisher / Springfield Illinois Baltimore Maryland / 1930.*

(22.1 × 14.9 cm). Pp. [14], [1-2] 3-241 [242] [2];<sup>2</sup> figs. 1 (col. front.; by O. Murie), 2-70 (2 col., ornith., 1 by R. Ridgway, 1 by O. Murie; remainder from photos. and drawings, including some of birds by Louis Agassiz Fuertes; some are figs. in text, others are inserted plates), col. map.

*Contents*—1 leaf (r. blank; advt. on v.); half-title; title; 2nd copy of half-title; conts.; list of illustrs.; 1 blank leaf (pp. [1]-[2]); text; chapters I-II of six being

<sup>1</sup> Zimmer's listing (duplicated by Wood) of 185 half-tones is seemingly in error.

<sup>2</sup> Wood gives pagination as 12 + 232, apparently (unless there is another version) miscounting the preliminary pages and neglecting the index.

introductory in nature, remaining chapters devoted to different groups of animals (birds, chapter IV, pp. 188-228). After general discussion, the chapter on birds provides an annotated list of species occurring in the park. Index, pp. 233-241.

A popular and informative account.

Wood, 216. Reviewed: *Auk*, 1930:581 (Witmer Stone).

133. 1933. **Cave Life of Kentucky** / Mainly in the Mammoth Cave Region / By / Vernon Bailey / With chapters on / the birds, by Florence Merriam Bailey / and on / the invertebrates, by Leonard Giovannoli / Prepared in the Bureau of Biological Survey, U. S. Department of / Agriculture, Paul G. Redington, Chief; in cooperation with the / Kentucky State Geological Survey, Willard R. Jillson, Director. / Reprinted from / "The American Midland Naturalist," / Vol. XIV, No. 5, pp. 385-635, 1933. / The University Press, / Notre Dame, Ind.

(22.8 × 15.2 cm). Pp. 1-256; fotogr. front. (fig. 1), text-figs. 2-90 (half-tones; photos. and wash drawings; line-cuts, etc.).

*Contents*—Half-title (front. on v.); title; conts.; letter of transmittal (May 25, 1933); acknowledgments.; text, in numb. sections I-VIII, I being introductory, II-VII dealing with different groups of animals, and VIII being a bibl. of more important publications (birds are treated in III, pp. 81-192; by Florence Merriam Bailey); list of illustrs., p. 254; index, pp. 255-256. The popular text gives considerable miscellaneous and general material, in addition to some specific records of value.

Repaged from the original, published (as noted in title) in *The American Midland Naturalist*. The section on birds is illustrated by drawings (borrowed from earlier sources) by L. A. Fuertes, J. L. Ridgway, R. B. Horsfall, E. T. Seton, and Robert K. Sim.

Reviewed (ornithology): *Auk*, 1934:109-110 (Witmer Stone).

BAIRD, SPENCER FULLERTON (1823-1887), *ed.*

134. 1851. **Outlines / of / general zoology.** / Mammals, by Charles Girard. / Birds, " [This and further dittos are aligned in title under the word "by" in fourth line] John Cassin. / Reptiles, " Spencer F. Baird. / Fishes, " Spencer F. Baird. / Invertebrates, " S. S. Haldeman. / Reprinted from the Iconographic Encyclopedia / of Science, Literature, and Art. / New York: / Rudolph Garrigue, Publisher, / 2 Barclay St., Astor House. / 1851.

8vo (22.7 × 15.6 cm). Pp. v-xxi [xxii], 1-502, i-xvi (pp. 1-502, i-xvi have additional numbering 205-954 at foot).

*Contents*—Title (p. v); notice; conts.; conts. of the plates (plates lacking; said to be numb. 74-105, 105b, 106-118); text, with general introd., pp. 1-15 (or 205-219), and sections by various specialists devoted to the groups of animals listed in title (birds are treated on pp. 290-391 [or 494-595], by John Cassin); index, pp. i-xvi (or 939-954).

A work which appears to be little known or cited today. Cassin's ornithological contribution provides a concise but thorough survey of the classification and charac-

teristics of birds at the time of writing. According to a notice by Baird: "The present extract constitutes the Zoological portion of the work entitled—'Iconographic Encyclopedia of Science, Literature, and Art.'<sup>1</sup> Systematically arranged by J. G. Heck, translated from the German with additions, and edited by Spencer F. Baird. . . . The part on Zoology, among others, has been compiled entirely anew by its authors. . . . The references to the plates are retained in this extract, though the plates themselves are not supplied." Copy signed by C. Hart Merriam.

135. 1859. United States and Mexican / Boundary Survey, / under the order of / Lieut. Col. W. H. Emory, / Major First Cavalry, and United States Commissioner. / **Birds / of the boundary,** / by / Spencer F. Baird, / Assistant Secretary of the Smithsonian Institution. / With notes by the naturalists of the Survey.  
4to (28.2 × 22.2 cm). Pp. 1-32 [2]; lith. col. plates I, 2, III-XXV.

*Contents*—Title, p. 1; text, pp. 3-28, being a briefly annotated list of the birds discovered by the naturalists of the boundary survey parties approximately 1853-1855, giving names, specimen numbers, localities, and brief notes of the collectors; alphabetical index, pp. 29-32; list of plates, 1 leaf. While adequate for identification, the plates are not noteworthy as bird art.

In Zimmer's words, this work is: "The ornithological portion of the report on the U. S. and Mexican Boundary Survey, being the second article of Pt. II of Vol. II. The text . . . was included in Baird, Cassin and Lawrence's extended paper in Vol. IX of the Reports of Explorations and Surveys—for a railroad from the Mississippi River to the Pacific Ocean, published the preceding year . . . [see No. 141]. The colored plates, for which the present work is chiefly valued, were not included in the Pacific Railroad Survey report but were utilized, together with the plates from other parts of that work, to form the atlas accompanying Baird, Cassin and Lawrence's *The Birds of North America*, 1860 . . . [see No. 142]." Records are given from areas embraced by the present states of Texas, New Mexico, Arizona, and California, and adjacent states in Mexico, including some localities well removed from the present boundary.

Two copies in the Collection, identical in text and in 13 of the 25 plates, vary considerably in 12 of the plates. The variant plates are numbers I, 2, VII, VIII, X, XIII, XIV, XV, XVIII, XX, XXI, and XXII. Generally the plates are without statement of lithographer but in both copies plates XII and XXIII bear the statement "Lith. et col. Bowen & Col. Philada.;" one copy each of variant plates 2, VIII, XIII, XVIII, and XXI have "Lith. et col. Bowen & Co. Philada." while the other variant of plate XXI has "Lith. & col. by Bowen & Co. Philada."

Coues, I:653; Wood, 217; Zimmer, 645-646.

136. 1873. Smithsonian Miscellaneous Collections. / 181 / **Review / of / American birds,** / in the Museum of the / Smithsonian Institution. / Part I. / By / S. F. Baird. / [*Seal*] / Washington: / Smithsonian Institution. / 1864-1872.  
8vo (23.1 × 14.1 cm). Pp. i-vi, 1-478; 59 engr. text-figs.<sup>2</sup>

*Contents*—Title; introd. (dated Nov. 20, 1872); conts.; text, pp. 1-450, being an

<sup>1</sup>4 vols., 8vo (text); 2 vols., 4to (plates), Garrigue, New York, 1851.

<sup>2</sup>Many are multiple figs., thus difficult to count; Zimmer gives 57.

extensively annotated list of birds included in the Smithsonian's collections (and including also species lacking from these collections but examined elsewhere by the author), with discussions of families, genera, and species, numerous keys, detail drawings, etc.; systematic list of species, pp. 451-463; alphabetical index to species, pp. 465-478.

Intended to cover all the birds of North and Middle America, the work was never completed, the present part (all published) being called Part I and covering Oscines only. According to Zimmer: "It was originally issued in sheets, as fast as it was printed, and distributed to various ornithologists for the purpose of eliciting criticisms and suggestions, but was not (according to a statement in the original edition) distributed to libraries or put in general circulation. These sheets are all signed with the date of issue (running from June 1864 to June 1866) and the numerous new names in the work must be quoted from the dates of the sheets on which they appeared. Pagination extended only to p. 450, and the title-page was slightly different from the present one. Later, for the present edition, the title-page was changed, the preliminary advertisement altered, an introduction written, the table of contents completed (to include the Vireonidae, Ampelidae and Laniidae), and a list of species and alphabetical index added on pp. 450-478, and the work was reissued in one volume. The final signature is dated January 1873, although the title-page cites 1864-72 only. Citation of 'Smithsonian Miscellaneous Collections, 181' would seem to be correctly made only to the original issue, or to the present one when qualified as 'Reissue.'"

Coues, 1:668-669 (original issue); Wood, 217; Zimmer, 34.

BAIRD, SPENCER FULLERTON; THOMAS MAYO BREWER *and* ROBERT RIDGWAY

137. 1874. A / history / of / North American birds / by / S. F. Baird, T. M. Brewer, and R. Ridgway / Land birds / Illustrated by 64 colored plates and 593 woodcuts. / Volume I [-III]. / [*Vign.*] / Boston / Little, Brown, and Company / 1874.

3 vols., 4to (26.9 × 19.6 cm).

Vol. I: pp. i-xxviii, 1-596, i-vi; chromolith. plates I-XXVI, 173<sup>1</sup> engr. text-figs. (from woodcuts, etc.).

Vol. II: pp. [6] 1-590, i-vi; chromolith. plates XXVII-LVI, 156<sup>1</sup> engr. text-figs.

Vol. III: pp. [6] 1-560, [2] i-xxxviii; chromolith. plates LVII-LXIV, 166<sup>1</sup> engr. text-figs.

*Contents*—All vols. contain half-title, title, conts., and (terminal) indices to plates, and text (occupying all but pp. 497-560 of vol. III). Preliminary pages and terminal indices are numbered in roman and text in Arabic numerals. Vol. I contains also pref. (pp. v-vii) and introd. (pp. xi-xxviii), and vol. III contains an appendix (pp. 497-532; including additions and corrections, and definitions of terms), glossary (pp. 533-560), and indices to scientific and common names (pp. i-xxii). The text provides a complete, authoritative survey of the taxonomy and life-histories

<sup>1</sup>Describing the impression of 1875, Zimmer gives 189, 170, and 178 "woodcuts." Since the texts appear to be the same, the discrepancy may be due to different methods of counting. Here all multiple figs. are counted as one each.

of North American birds as known at the time of writing. Details of authorship are as follows (according to pref., p. vii): "The technical, or descriptive, matter . . . has been prepared by Messrs. Baird and Ridgway, that relating to the *Raptors* entirely by Mr. Ridgway; and all the accounts of the habits of the species are from the pen of Dr. Brewer. In addition . . . Professor Theodore N. Gill has furnished that portion of the Introduction defining the class of birds as compared with the other vertebrates; while to Dr. Coues is to be given the entire credit for the pages embracing the tables of the Orders and Families, as well as for the Glossary. . . ." Most of the illustrations are by Edwin L. Sheppard, Henry W. Elliott, Robert Ridgway, and Anton L. Schönborn.

One of the great works on North American ornithology and for many years a standard reference, being (with the two volumes on water birds published by the same authors in 1884, No. 140) the first major work on North American birds to supersede Audubon's *Ornithological biography* of 1831-1839 (No. 96) as a comprehensive general source. As a purely technical reference the work was, however, secondary to the earlier and monumental paper of Baird, Cassin, and Lawrence, published in 1858 and 1860 (Nos. 141 and 142).

Some sets were issued with uncolored plates (Coues). Another impression (No. 138) appeared the following year with altered titles and added plates, and the work was printed again in 1905 (No. 139).

Coues, 1:700-702 (exhaustive descr. and crit.); see also Coues' *Key to North American Birds*, 3rd ed., Boston, Estes and Lauriat, 1887, pp. xxiii-xxvi (hist.); Nissen, 63; Wood, 218. Announcement and comment: *Ibis*, 1874:178-179 (P. L. Sclater).

138. 1875. A / history / of North American birds / by / S. F. Baird, T. M. Brewer, and R. Ridgway / Land birds / Illustrated by 64 Chromo-Lithographic Plates and 593 Woodcuts / Volume I[-III]. / [Vign.] / Boston / Little, Brown, and Company / 1875.

3 vols., 4to (26.9 × 19.6).

Second impression. Collation, contents, and setting the same as those of the first (No. 137), except for substitution of new title-pages and the addition of 36 lithographed, colored plates by Robert Ridgway (vol. I, front. and 15 plates; vol. II, front. and 13 plates; vol. III, front. and 5 plates<sup>1</sup>). The work is evidently more common in this second impression. In describing the present impression under date of 1874, Zimmer was evidently unaware of the existence of the earlier one, published, according to Coues (1:700) about December, 1874.

Nissen, 63; Wood, 218; Zimmer, 34-35.

139. 1905. A / history / of / North American birds / By / S. F. Baird, T. M. Brewer, and R. Ridgway / Land birds / Illustrated by 64 plates and 593 woodcuts / Volume I [-III]. / [Vign.] Boston / Little, Brown, and Company / 1905.

3 vols., 4to (25.0 × 16.7 cm, untrimmed).

<sup>1</sup>Zimmer was either in error or had a (probably) unique copy when he listed 9 plates for vol. III. Three copies at hand all have the same 6 plates, and the totals of their sets (36 plates in each) equal the total given by Wood.

Third impression. Collation and contents almost as in the first (1874, No. 137), but 3 of the 36 colored plates by Ridgway introduced with the second impression (1875, No. 138) appear as frontispieces (the remainder are wanting). The sheets are from the same type but the titles are new and the paper is smaller than that of earlier impressions. The plates are scattered through the text instead of collected at the ends of the volumes.

Anker, no. 25; Nissen, no. 63.

140. 1884. *Memoirs of the Museum of Comparative Zoology / at Harvard College. / Vol. XII [XIII]. / The / water birds / of / North America. / By / S. F. Baird, T. M. Brewer, / and / R. Ridgway. / Issued in continuation of the / Publications of the Geological Survey of California. / J. D. Whitney, State Geologist. / Volume I [II]. / Boston: / Little, Brown, and Company. / 1884.*

2 vols., 4to (27.3 × 20.0 cm, untrimmed).

Vol. I: pp. i-xi [xii], 1-537; 211 engr. text-figs. (from woodcuts; 134 col.).<sup>1</sup>

Vol. II: pp. [6], 1-552; 278 engr. text-figs. (198 col.).<sup>1</sup>

*Contents*—Both vols. contain half-title, title, and conts.; vol. I contains introd., pp. vii-ix (by J. D. Whitney, dated at Cambridge, Mass., March 31, 1884), and a synopsis of the orders of water birds, pp. x-xi, and vol. II contains indices to the whole work, pp. 537-552. The text is on the same plan as, and actually a continuation of, the authors' *History of North American birds (land birds)* in 3 vols., 1874 (No. 137). As in that work, the very thorough descriptive and taxonomic matter is by Baird and Ridgway, while the life-history material is by Brewer (completed, after Brewer's death, by Whitney, according to note in introd.). Most of the figures are by Edwin L. Sheppard.

The work is an admirable one for its times and was long a standard. The technical matter was kept as simple as was compatible with absolute clarity. For further discussion of the joint writings of "Baird, Brewer, and Ridgway" see No. 137. In addition to continuing the authors' *History of North American Birds*, the present work also formed the nominal second part of J. G. Cooper's *Ornithology, Vol. I, Land birds* (infra), published in 1870 by the Geological Survey of California.

Nissen, 64; Wood, 218-219; Zimmer, 35. Reviewed: *Auk*, 1884:382-386 (J. A. Allen); *Ibis*, 1885:97.

BAIRD, SPENCER FULLERTON; JOHN CASSIN *and* GEORGE NEWBOLD LAWRENCE

141. 1858. 33rd Congress, 2d Session. } Senate. } Ex. Doc. No. 78. / Reports / of / explorations and surveys, / to / ascertain the most practical and economical route for a railroad / from the / Mississippi River to the Pacific Ocean. / Made under the direction of the Secretary of War, in / 1853-6, / according to Acts of Congress of March 3, 1853, May 31, 1854, and August 5, 1854. / Volume IX. / Washington: / Beverly Tucker, printer. / 1858.

> Explorations and surveys for a railroad route from the Mississippi River to the

<sup>1</sup> Zimmer gives 135 col. text-figs. for vol. I and 282 text-figs. (201 col.) for vol. II.

Pacific Ocean. / War Department. / **Birds:** / by Spencer F. Baird / Assistant Secretary Smithsonian Institution. / With the co-operation of / John Cassin and George N. Lawrence. / Washington, D. C. / 1858.

4to (28.6 × 22.0 cm). Pp. i-lvi (p. xxvii misnumb. xvii), 1-1005.

*Contents*—Series-title, p. i (above), followed by 3 leaves bearing various introd. matter pertaining to the series, being pp. iii-viii; volume-title, p. ix (above); conts.; pref., pp. xiii-xvi (signed S.F.B., Washington, October 20, 1853); table of the higher groups, pp. xvii-xxiv; list of species, pp. xxv-lvi; text, with introd. remarks, pp. 1-2, and detailed accounts of all species then known from North America, pp. 3-918, and including thorough considerations of higher categories; "Note to Alcidae," pp. 919-920 (additional commentary on the group, with reference to a paper by J. F. Brandt); Appendix A, pp. 921-925 ("Additional remarks on North American birds"); Appendix B, pp. 926-927 ("Birds found at Fort Bridger, Utah"); Appendix C, pp. 928-954 ("List of authorities"); alphabetical indices to common and scientific names, pp. 955-1005.

Zimmer summarized: "The most important work on North American birds up to its date since Audubon and Wilson. The work consists of a critical, descriptive account of all the birds of North America, north of Mexico, and is not restricted to the species collected by the Pacific Railroad Surveys. Most of it is by Baird, but pp. 4-64, 689-753 and 900-918 are by Cassin and pp. 820-900 by Lawrence. Pp. xvii-lvi were reissued, with separate title-page, in 1858 as Baird's 'Catalogue of North American Birds.' . . . The entire volume was reprinted in 1860 with few alterations and issued, together with plates from other volumes of the Pacific Railroad Survey reports, the U. S. and Mexican Boundary Survey, and other sources, as Baird, Cassin and Lawrence's 'The Birds of North America' [No. 142]." (See also No. 143). Likewise according to Zimmer: "The present volume also exists as 'House of Representatives. Ex. Doc. No. 91.'" The present volume is part of a long series of the U. S. Pacific Railroad Surveys contained in the Collection.

Anker, 22; Coues, 1:649-651 (exhaustive descr. and crit.); Wood, 217; Zimmer, 646.

142. 1860. **The birds / of / North America;** / the descriptions of species based chiefly on the collections / in the / Museum of the Smithsonian Institution. / By / Spencer F. Baird, / Assistant Secretary of the Smithsonian Institution, / with the co-operation of / John Cassin, / of the Academy of Natural Sciences of Philadelphia, / and / George N. Lawrence, / of the Lyceum of Natural History of New York. / With an Atlas of One Hundred Plates. / Text [Atlas]. / New York: / D. Appleton & Co. / 1860.

2 vols., 4to (29.5 × 23.3 cm).

Vol. I (text): pp. [4] i-lvi (p. xxvii misnumb. xvii), 1-1005.

Vol. II (atlas): pp. [2] i-xi [xii]; lith. col. plates I-XXXVIII, I (*bis*), 2, III-XXIV (*bis*), LXIII-C (100 plates in all).

*Contents*—Vol. I (text): title, 1 leaf; conts., 1 leaf; advt., p. i; pref., iii-vi (signed S.F.B., Oct. 20, 1858); explanation of plates, pp. vii-xii; systematic list of illustrs., pp.

xiii-xv; table of the higher groups, pp. xvii-xxiv; list of species, pp. xxv-lvi; text, pp. 1-1005 (introd. remarks on pp. 1-2). Vol. II (atlas): title, 1 leaf; pref., pp. i-ii; explanation of plates, and systematic list of illustrs., pp. iii-xi (=pp. vii-xv of vol. I); 100 plates numb. as above.

Another impression of Baird, Cassin, and Lawrence's work of 1858 (No. 141), with slight additions. The plates of the atlas are from a variety of sources (see below). The work was published in the present form so as to be more readily obtainable than the first impression. It would be difficult to improve on Zimmer's summary: "The main body of text (pp. 1-1005) is identical with the same pages in Vol. IX of the U. S. Pacific Railroad Surveys, 'Reports of Exploration,' etc. (q.v.), and pp. I-VI represent pp. III-VII of the same, reset and dated 'October 20, 1858' instead of ['] October 20, 1853.' Pp. VII-XV + I, containing the explanation of plates and systematic list of illustrations, are new. Three species, one of them (*Helminthophaga virginiae*) new and none of them mentioned in the original report, are discussed in footnotes to the list of illustrations without disturbing the original letterpress of the general text. . . . Pls. I-XIV, XVII-XXV, XXVII-XXXI, XXXIV and XXXVI-XXXVIII are from the Pacific Railroad Survey reports, some of them retouched or retitled; I (*bis*), 2, and III-XXIV (*bis*) are similarly from the U.S. and Mexican Boundary Survey report; the remainder are new or newly drawn." (See also Stone, W., *Auk*, 1919:428-430.) Still another impression appeared in 1870 (No. 156).

The present version occurs with at least two imprints (conceivably two impressions are involved), that of another copy reading: "Philadelphia: / J. B. Lippincott & Co. / 1860" (thus agreeing with Zimmer's copy save for one line-break, which he may have omitted; cf. Stone, *loc. cit.*). The copy collated bears signature of "Geo. Dawson Rowley."

Anker, 24; Coues, 1:658; Nissen, 62; Wood, 217; Zimmer, 33. Noticed: *Ibis*, 1860:425-427.

143. 1870. **The birds of North America.** / [*As No. 142, 17 lines*] / Philadelphia: J. B. Lippincott & Co. / 1860. / Salem: Naturalist's Book Agency. / 1870.

2 vols., 4to (29.5 × 22.9 cm).

Vol. I (text): pp. [2] i-vii [viii] xvii-lvi, 1-1005.

Vol. II (atlas): pp. [2] i-vii; plates I-XXXVIII, I (*bis*), XL-XLIII, VI (*bis*), XLV-XLVIII, XI-XII (*bis*), LI-LII, XV-XVII (*bis*), LVI-LIX, XXII (*bis*), LXI-C (100 plates in all; lith., col.).<sup>1</sup>

*Contents*—Text: title, 1 leaf, conts., p. i; advt., p. iii; pref., pp. v-vii (dated Washington, Oct. 20, 1858); text, pp. xvii-lvi, 1-1005. Atlas: title, 1 leaf; pref., pp. i-ii; explanation of plates, pp. iii-vii; 100 plates.

Another impression of the work first published in 1858 (No. 141) as vol. IX of the Reports of the Pacific Railroad Surveys, and reprinted in 1860 (No. 142) under a new title nearly the same as the above. Certain changes have been made in the text and in the plates of the accompanying atlas (first issued in 1860). Differences

<sup>1</sup> Zimmer's listing of plates seems to be in error (his total does not agree with his numbering) in several particulars, omitting reference to plates XXIX-XXXVIII, LII, and XXII (*bis*).

were summarized by Zimmer: ". . . the prefaces of text and atlas are reset and differently paged, with that of the text occupying fewer pages; the table of contents of the text is slightly altered to accord with the changes in pagination of the preface; the explanation of plates is reset on fewer pages and omitted from the volume of text, being found only in the atlas; the systematic list of illustrations is entirely omitted; most of the plates are retouched and renumbered or relettered, and in many cases are somewhat different in coloration from the originals. The general descriptive text appears to be the same in both editions." Some of the plates have also been redrawn, and the over-all quality of the plates is inferior to that of the impression of 1860 (Stone, *Auk*, 1919:429-430).

Another example at hand has a different imprint ("Salem: / S. E. Cassino, / Naturalists' Agency. / 1870."), which, so far as I can tell, has not been previously described. This copy bears the bookplate of Richard J. Gurney and is inscribed: "J. H. Gurney / with best wishes from his children / Richard and Evelyn / Christmas. 1881. [*Change of hand and ink.*] Having bought it in New York / in their journey in America November. 1881." It is bound in one volume in fine green morocco, gold stamped, and impressed with the seal of John Henry Gurney. It consists of the 1870 impression of the text, plates of the 1860 impression being interspersed throughout.

Anker, 24; Nissen, 62; Wood, 218; Zimmer, 33-34.

#### BAKER, EDWARD CHARLES STUART (1864-1944)

144. 1897-1900. *Indian / ducks and their allies* / By / E. C. Stuart Baker, F.Z.S. / Published / in the / *Bombay Natural History Society's Journal.* / 1898-1900.

8vo (23.8 × 15.6 cm). Pp. [2] 1-21 (June 10, 1897), 171-198 (Nov. 1, 1897), 347-367 (Feb. 28, 1898), 555-584 (July 12, 1898), 1-31 (Dec. 10, 1898), 235-261 (March 30, 1899), 437-464 (July 7, 1899), 593-620 (Nov. 8, 1899), 1-24 (April 15, 1900), 199-222 (July 29, 1900), chromolith. plates III-VIII, X (by J. G. Keulemans).

*Contents*—Title, 1 leaf; text, paged as shown above, consisting of popularly-written but authoritative material on the distribution, habits, etc., of Indian wildfowl (ducks and their allies are here the *Chenomorphae* of Salvadori). For further detail see No. 145.

A bound volume, with specially printed title, consisting of author's extras of parts I-X (all) of a work serially published under the above title, on the dates noted above, in the *Jour. Bombay Nat. Hist. Soc.*, vols. 11 (nos. 1-4), 12 (nos. 1-4), and 13 (nos. 1-2), with original pagination intact. In the *Journal*, one plate appeared with each part, in order, three being missing from the present volume. This copy is interleaved with 30 or more pages of closely-written MS. and has numerous annotations in the text, all in Baker's hand. The whole appears to have served as the basis for the author's revised *The Indian ducks and their allies*, 1908 (No. 145), which is in fact the second edition of the present work.

145. 1908. *The / Indian ducks / and / their allies.* / By / E. C. Stuart Baker, F.Z.S., M.B.O.U. / With 30 coloured plates / by H. Grönvold, G. E. Lodge, and J. G. Keulemans. / Published by / The Bombay Natural History Society. / London: R.

H. Porter, 7 Princes Street, Cavendish Square, W. / Calcutta and Simla: Thacker, Spink & Co. / Bombay: Thacker and Co., Limited. / 1908.

8vo (26.5 × 18.0 cm, untrimmed). Pp. i-xi [xii], 1-292; lith. title., chromolith. plates I-XXX.

*Contents*—Half-title; lith. title; title; conts.; list of plates; introd., pp. ix-xi; text, pp. 1-286, giving discussion of higher taxonomic groups and, for each species, references, descriptions, and detailed comments on records, ranges, seasons, and habits in the area covered; index, pp. 287-292.

In its time a useful reference for ornithologists and sportsmen, this work is a considerably revised new edition based on a series of papers under nearly the same title published in the *Jour. Bombay Nat. Hist. Soc.*, 1897-1900 (No. 144). A third and further revised edition appeared in 1921, as vol. I of the author's *The game-birds of India, Burma and Ceylon* (No. 149). In the collection is the author's copy, containing many MS. corrections and additions, some loosely laid in, and evidently made in revising the work for the final edition.

Nissen, 65; Wood, 218. Reviewed: *Ibis*, 1909:182-183.

146. 1910-11. **Indian snipe**, / from the / Bombay Natural History Society's Journal, 1911, / by / E. C. Stuart Baker, F.Z.S., F.L.S., M.B.O.U.

(23.8 × 16.0 cm). Pp. [2], 1-32 (repaged 1-32), 259-278 (1-20), 547-596 (1-50), 901-929 (1-29); chromolith. plates I, III, II, IV (in that order; by H. Grönvold), A-C (half-tones).

*Contents*—Title; text (paged as shown above). Discussions of families and genera, keys, and, for each species, references, vernacular names, descriptions, and extended semi-popular discussions of habits, distribution, hunting methods, etc.

A bound volume, evidently issued privately by the author, consisting of a specially printed title and repaged author's extras (original pagination retained) of parts I-IV, dealing with snipe and related birds, of his long series of articles published in the *Jour. Bombay Nat. Hist. Soc.* under title of "The game birds of India, Burma and Ceylon." The parts in question are dated June 13, 1910 (vol. 20, no. 1), October 12, 1910 (vol. 20, no. 2), January 31, 1911 (vol. 20, no. 3), and May 20, 1911 (vol. 20, no. 4). These and other parts of the series (but not all) were later revised and published in three volumes as *The game birds of India, Burma and Ceylon*, 1921-30 (No. 149). Presentation copy signed by the author.

147. 1911-13. **Indian bustards**. / From the / Bombay Natural History Society's Journal, 1912-1913, / by / E. C. Stuart Baker, F.Z.S., F.L.S., M.B.O.U.

(23.7 × 16.3 cm). Pp. [2], 20-47 (repaged 1-28), 303-337 (1-35), 721-739 (1-19), 1109-1128 (1-20); chromolith. plates V, VI, VII, VIII (by Grönvold; no. of plate VIII trimmed away), photogr. plates A, A (*bis*), B.

*Contents*—Title and four pts. paged as noted.

Similar in form, arrangement, and style to the author's *Indian snipe* of 1910-11 (No. 146), containing a specially printed title page. The parts are author's extras of

parts V-VIII of Baker's serialized "The game birds of India, Burma and Ceylon" published in the *Jour. Bombay Nat. Hist. Soc.* and dated October 31, 1911 (vol. 21, no. 1), March 31, 1912 (vol. 21, no. 2), July 30, 1912 (vol. 21, no. 3), and November 20, 1912 (vol. 21, no. 4). The material in question was later published again, as noted under No. 146. Copy signed by the author and inscribed to E. P. Unker.

148. 1913. **Indian pigeons / and / doves /** By / E. C. Stuart Baker / F.Z.S., F.L.S., M.B.O.U. / Author of "Indian Ducks and their Allies." / With twenty-seven coloured plates from drawings by / H. Grönvold and G. E. Lodge. / Witherby & Co. / 326 High Holborn, London / 1913.

8vo<sup>4</sup> (26.7 × 18.2 cm). Pp. i-xv [xvi], 1-260; col. front., col. plates 1-26 (offset lith.).

*Contents*—Half-title; title; pref., pp. v-viii; conts.; list of plates; bibl., pp. xiii-xv; text, pp. 1-255, including discussion of higher taxonomic categories, keys, and, for each species, references to earlier literature, vernacular names, description, distribution, nidification, and extensive semi-popular discussion of habits, field observations, method of hunting, etc.; index, pp. 256-260.

A handsome and useful volume of reference for sportsmen, with some ornithological utility as well. Among interesting features of the book is its application to Indian birds of trinomial nomenclature, this, according to a statement on p. vi, for the first time. The plates are handsome, and clearly show the superiority of even the earliest offset lithography over the chromolithography widely used previously. The work forms a companion volume to the three volumes of the author's *Game-birds of India, Burma and Ceylon*, 1921-30 (No. 149).

Copy signed by the author. Laid in is a folder which served as a political advertisement connected with the author's campaign for a local office in the Borough of Croydon. The face of this reads: "Election of Councillor for / Upper Norwood Ward. / Wednesday, Nov. 1st, 1933 / [*Portr., photo.*] / Vote for / Stuart Baker / The Ratepayers' Nominee."

Nissen, 66; Wood, 218; Zimmer, 36. Reviewed: *Ibis*, 1914:325-326.

149. 1921-30. **The game-birds of India, / Burma and Ceylon / ducks and their allies /** (swans, geese and ducks) / Vol. I. / By / E. C. Stuart Baker, O.B.E., F.L.S., F.Z.S., M.B.O.U., / H.F.A.O.U. / With 30 coloured plates / By H. Grönvold, G. E. Lodge and J. G. Keulemans. / Second edition. / Published by / The Bombay Natural History Society. / London: John Bale, Sons & Danielsson, Ltd., Oxford House, / 83-91, Great Titchfield Street, W.1. / 1921.

Titles of remaining vols. are as follows:

[*Idem*, 2 lines] / snipe, bustards and sand-grouse / Vol. II. / [*Idem*, 3 lines] / With 19 coloured plates / By H. Grönvold. / Two maps in colour and six black and white plates. / [*Idem*, 5 lines].

[*Idem*, 2 lines] / pheasants and bustard-quail / Vol [*Period omitted*] III. / [*Idem*, 3 lines]<sup>2</sup> / With eleven coloured and nine black and white plates. / [*Idem*, 3 lines]<sup>3</sup> /

<sup>1</sup> Zimmer's description of this book as a "super-royal folio" must be a mis-print for "super-royal 8vo."

<sup>2</sup> Except final period omitted after M.B.O.U.

<sup>3</sup> Except final period omitted after Society.

83-91 Great Titchfield Street, W. 1. / 1930.

3 vols., 8vo (26.6 × 18.0 cm, untrimmed).

Vol. I: pp. i-xvi, 1-340; orn. title, chromolith. plates I-XXX, photogr. plates VIIa, VIIb, VIIc.

Vol. II: pp. i-xvi, 1-328; orn. title, col. (offset lith.) plates I-XIX, half-tone plates A-F (A-C wash drawings; D-F photos.), col. maps A, B.

Vol. III: pp. i-x, 1-341; orn. title, 11 col. (offset lith.) plates, 9 photogr. plates.

*Contents*—All vols. contain half-title; lith. title (drawings by Grönvold; titles vary); title; conts.; list of plates; introd., pp. ix-x in each (dated, respectively, July 1921; May 1921; March 1930); text (respectively, pp. 1-333; 1-323; 1-334); and index (respectively, pp. 335-340; 325-328; 335-341). Vols. I and II contain a bibl., pp. xi-xvi in each. The semi-technical text was evidently designed both for sportsmen and ornithologists; it provides discussions of higher taxa, keys, and, for each species, synonymy, descriptions of male, female, and young, and accounts of distribution, nidification, and habits. In addition to the groups named in titles, vol. I treats also flamingos and vol. III megapodes, peafowl, and junglefowl.

A useful and attractive work summarizing a large part of the author's prolonged studies of Indian game birds.<sup>1</sup> For the groups treated, the work supersedes the much earlier volumes of almost the same title by Hume and Marshall.<sup>2</sup> The text is an expanded revision of articles first published serially in the *Jour. Bombay Nat. Hist. Soc.* Volume I, while it is called the second edition of the author's *The Indian ducks and their allies*, 1908 (No. 145), is in fact the third version and edition thereof, since that work was based, in turn, upon articles under similar title published in the above-named *Journal*, 1897-1900, at least one set of which was issued separately with special title (No. 144). The remainder of Baker's ambitious series of articles on game birds was published, under varying caption-titles, in the *Journal* from 1910 to 1934, but not all is included in the work in hand, which remains incomplete. The author's intention in 1921 (as stated in vol. I, p. x) was to reissue all of the serialized articles then extant or contemplated in four then projected volumes of the present work, the fourth to contain the accounts of the partridges and their relatives. The last, however, although published serially in the *Journal*, were not, unfortunately, issued in book form, which is true also of still another projected volume later published serially (see below).

The publication of the serialized articles, beyond those on the ducks, in the *Jour. Bombay Nat. Hist. Soc.*, was as follows:

Under title of "The game birds of India, Burma and Ceylon," pts. I-XXVIII, dealing with snipe (see No. 146), bustards (see No. 147), sand grouse, button quails, and the pheasants etc., appeared from June 13, 1910 (vol. 20, no. 1), to June 31, 1920 (vol. 26, no. 4), and, after revision, comprise vols. II and III of the present work; on the other hand, pts. XXIX to XXXIX under the same title, dealing with partridges and their relatives, and published from July 1, 1920 (vol. 27, no. 1), to January 25, 1925 (vol. 30, no. 2), do not appear in the present work.

<sup>1</sup> Baker's *Indian pigeons and doves* (No. 148) may be regarded as a companion volume to the present work.

<sup>2</sup> *The game birds of India, Burmah, and Ceylon*, by A. O. Hume and C. H. T. Marshall. Calcutta, 1879-81, 3 vols.

Under title of *The game birds of the Indian Empire*, marked Vol. V, and subtitled "The waders and other semi-sporting birds," further pts. I-XXI appeared from August 15, 1926 (vol. 31, no. 2), to August 15, 1934 (vol. 37, no. 2), and are clearly a continuation of the same series.<sup>1</sup> These parts also (see No. 152) were not published in book form. They deal with rails, cranes, pinfeet, crab plovers, jacanas, coursers, plovers, sandpipers, stone curlews, oyster-catchers, stilts, and phalaropes.

The Collection also contains a heavily corrected copy of the page proofs of Volume I, stamped "Proof from John Bale, Sons & Danielsson, Ltd., 18 Feb. 1921. . . ."

Nissen, 67; Wood, 218; Zimmer, 36 (vols. I-II). Reviewed: *Ibis*, 1922:352-353 (vols. I-II); 1931:104-105 (vol. III); *Auk*, 1931:144-145 (vol. III).

150. 1922-30. **The fauna of British India**, / including / Ceylon and Burma. / Published under the authority of the Secretary of / State for India in Council. / Edited by Sir Arthur E. Shipley, G.B.E., M.A. [*Etc.*, 2 lines]. / **Birds**.—Vol. I [-VIII (*For other changes in titles of vols. II-VIII see note immediately below*)] / (**Second Edition**). / By / E. C. Stuart Baker, O.B.E., F.Z.S., Etc. / London: / Taylor and Francis, Red Lion Court, Fleet Street. / Calcutta: / Thacker, Spink, & Co. / [*Next 2 lines to the right of and opposite preceding 2 lines*] Bombay: / Thacker & Co., Limited. / July, 1922 [April, 1924; March, 1926; July, 1927; March, 1928; March, 1929; March, 1930; September, 1930].

*Note*—Although the general form of the title transcribed above is preserved, there are many minor changes in the later titles. Changes additional to those noted above are as follows: (1) the comma after the words "British India" (line 1) is omitted in vols. IV and V; (2) in vols. V-VIII the 2 lines referring to editorship, honors, etc. (lines 6 and 7 above) become 1 line reading "Edited by E. C. Stuart Baker, O.B.E., F.Z.S., Etc.," the "E" of "Etc." being accidentally omitted in vol. VI; (3) in vols. II-VIII the references to the Bombay and Calcutta publishers are dropped from the imprint,<sup>2</sup> the remaining lines thereof (except for variations in date) being as shown except for this omission; (4) honors after the original editor's name vary somewhat (differences not recorded).

8 vols., 8vo (22.8 × 15.6 cm, unopened at top).

Vol. I: pp. i-xxiii [xxiv], 1-479 [480]; col. front., col. plates I-VII,<sup>3</sup> text-figs. 1-93 (line-cuts), 5 text-figs.<sup>4</sup> (line-cuts).

Vol. II: pp. i-xxiii [xxiv], 1-561 [562]; front., col. plates I-VII, text-figs. 1-86.

Vol. III: pp. i-xx, 1-489 [490]; col. plates I-VII, text-figs. 1-90, col. fold. map.

Vol. IV: pp. i-xxiv, 1-471 [472]; col. plates I-VII (plates III, VI, VII by H. Grönvold), text-figs. A-C, 1-71.

Vol. V: pp. i-xviii, 1-469 [470]; plates I-VI (plate I is a black and white front.; the rest are col., with plate II by G. E. Lodge, plate III by Grönvold), text-figs. 1-55.

Vol. VI: pp. i-xxxv [xxxvi], 1-449 [450]; plates I-III (black and white wash drawings; plate I is front.), text-figs. 1-95.

Vol. VII: pp. i-viii, 1-484.

Vol. VIII: pp. i-iv, 485-801 [802].

<sup>1</sup>For indication of this see p. 49 in *The Bombay Natural History Society 1883-1933*. Bombay, 1933. (No. 311.) See also *Jour. Bombay Nat. Hist. Soc.*, 1926:31(2): 233.

<sup>2</sup>Zimmer does not note this detail for vol. II.

<sup>3</sup>Unless otherwise noted, colored plates are from drawings by the author; all are offset lith.

<sup>4</sup>Zimmer gives 8, presumably arrived at by detailed counting of multiple figs.

*Contents*—The first six vols. contain the main descriptive text of the work, vols. VII and VIII being devoted to synonymies of the forms treated earlier. Introductory and accessory matter is arranged as follows: vols. I-VI each contain title, pref., systematic index, and alphabetical index (the last beginning on pp. 467, 547, 477, 459, 459, and 489 in respective vols.). The prefs. by editor (vols. I, II, IV) and author (vols. II, III, V, VI) are dated, respectively, 7 July 1922, 15 March 1924 (vol. II, editor's pref.), March 1924 (vol. II, author's pref.), February 1926, 27 June 1927, March 1928, 28 March 1929. Matter introductory to the whole text, including a key to families, occurs on pp. 1-17 of vol. I, while another introd. (dealing with classification of higher groups) occurs on pp. v-x of vol. IV. A prefatory introd. by the editor is found on pp. iii-iv of vol. III. A bibl. of the whole work appears on pp. ix-xix of vol. VI. In each of the vols. of synonymy (VII, VIII) is found a title, introd. (dated, respectively, March 31, 1930, and Sept. 1, 1930), and text (paged continuously through both vols.), and an alphabetical index to both occurs in vol. VIII, pp. 705-801. A long section of addenda and corrigenda (pp. 593-704) concludes the text of vol. VIII. The text proper (vols. I-VI) includes discussions of and keys to higher taxonomic groups, discussions of species, with keys to subspecies, and under each form treated gives name, original authority, type locality, descriptions of male and female plumages, colors of soft parts, measurements, and remarks of distribution, nidification, and habits. A few new names appear in vols. VII and VIII. The illustrations are of interest, those by the author (who was far from an accomplished bird portraitist) showing creditable watercolor technique and a pleasing artistic sense.

An important contribution, still the premier reference work on the birds of the whole region involved, designed to replace the antiquated and long scarce treatise of the same title by Oates and Blanford, 1889-98. Although labelled a second edition of their *Fauna*, the present is almost entirely new (the line-cuts are from the earlier volumes) and a distinct work in its own right. By a pleasant chance the copy of Oates and Blanford's work in the collection was Baker's own, interleaved with numerous annotations.

The work received extensive reviews in *The Ibis*, most of the rather abundant criticism concerning points of nomenclature. A considerable number of minor errors said to exist in the volumes is perhaps the result of hasty printing and proofing. Also, as one reviewer stated, "to write authoritatively on the Avifauna [of all British India] is more than should be expected of any single person."

Wood, 218-219 (vols. I-II); Zimmer, 37 (vols. I-II). Reviewed: *Ibis*, 1922:718-720 (vol. I); 1924:785-786 (vol. II); 1926:596 (vol. III); 1927:743-749 (vol. IV; crit., and additional notes, signed H.C.R.=Herbert C. Robinson?); 1928:542-543 (vol. V); 1929:532-533 (vol. VI); 1930:504-505 (vol. VII); 1931:105-107 (vol. VIII).

1923(?). A hand-list / of / genera and species / of birds / of the Indian Empire / By / E. C. Stuart Baker, O.B.E., M.B.O.U., F.Z.S., C.F.A.O.U. / Reprinted from the Journal of the Bombay / Natural History Society together with a / Foreword and Addenda and Corrigenda / prepared by the Author. / Bombay: / Printed by order of the Committee of the Bombay Natural History Society. / Price Six Rupees. / Sold by / London: Dulau & Co., Ltd., 34-36, Margaret Street, Cavendish

Square. / Bombay: Bombay Natural History Society, 6, Apollo Street. / Bombay: Thacker & Co., Ltd. Calcutta: Thacker Spink & Co., Ltd.

(24.0 × 16.5 cm). Pp. [2] i-ix [x], 1-240.

*Contents*.—Title; foreword, p. i (signed E. C. Stuart Baker, Upper Norwood, 29 May 1923); addenda and corrigenda, pp. iii-ix; text (or “hand-list of the “birds of India”” as originally titled in series), pp. 1-240, in parts I-VIII, with introd. material on pp. 1-2. For each form is given a whole number (these run to 2138—should be 2141 according to corrigenda) and for each species a number, in parentheses, which applies to all its subspecies (these run to 1617). Scientific and common name, citation of original description and type locality, general range (briefly) and Indian range (in more detail) are given for each form.

The text of this work (parts I-VIII) appeared serially in the *Journal of the Bombay Natural History Society*, 1920-1923. For convenience the original parts were reprinted from the same type (a few minor alterations being made in this process), repaged (without preservation of original pagination), collected, and issued with the addition of a title-page, foreword, and “addenda and corrigenda,” all evidently dating from 1923. At the beginning of each part and at the top of each page has been added the date of publication in the original journal. The present impression is not formally dated, but release in 1923 is indicated by the dating of the foreword. In this form the work seems to have enjoyed rather limited circulation, its appearance not being mentioned in either the *Zoological Record* or *The Ibis*. Except for the foreword and addenda, citation should be made to the original journal, unless qualified as “repaged reprint.” The work was prepared in working out the nomenclature used in the author’s 8-volume *Fauna of British India, birds*, of 1922-30 (No. 150), which superseded the present text. I append a comparative collation of the two issues.

Part	Date of original issue	Vol.	No.	Pp. original	Pp. reprint
I	December 20, 1920	27	2	228-247	1-20
II	March 31, 1921	27	3	448-491	21-64
III	July 31, 1921	27	4	692-744	65-117
IV	December 30, 1921	28	1	85-106	119-140
V	March 25, 1922	28	2	313-333	141-161
VI	June 30, 1922	28	3	576-594	163-181
VII	December 20, 1922	28	4	830-873	183-226
VIII	April 20, 1923	29	1	9-22	227-240

Copy signed by the author; interleaved with many MS. notes by Baker.

Wood, 219.

152. 1926-34. *The game birds of the Indian Empire*. / By / E. C. Stuart Baker, F.Z.S., F.L.S., M.B.O.U., C.F.A.O.U. / Vol. V / The waders and other semi-sporting birds / Part I [-XXI]. [*Caption-titles*]

8vo (24.1 × 16.3 cm). Pp. [233]-[238] (repaged 1-6), [533]-[546] (1-14), 1-13 (1-13), 237-245 (1-9), 397-407 (1-11), 617-621 (1-5), 1-6 (1-6), 223-228 (1-6), 473-

479 (1-7), 745-752, (1-8), 1-11 (1-11), 613-622 (1-10), 859-876 (1-18), 1-12 (1-12), 241-253 (1-13), 475-483 (1-9), 703-721 (1-19), 1-12 (1-12), 293-306 (1-14), 1-14 (1-14), 245-254 (1-10), 21 chromolith. plates (1 per pt.; by Grönvold).

*Contents*—Text, in 21 pts. (paper wrappers bound at back), dealing with the groups of “semi-sporting” birds noted below.

A specially bound volume consisting of 21 repaged author’s separates (all but the first two of which retain original pagination as well) of as many articles published serially in the *Jour. Bombay Nat. Hist. Soc.* These were intended to form the basis of a fifth volume of the author’s *The game-birds of India, Burma and Ceylon* (No. 162; *q.v.*), but were not republished in that form. The details of publication in the *Journal* are as follows (pagination of the respective pts. as given above): Pt. I, vol. 31, no. 2, Aug. 15, 1926 (Rallidae, pt.);<sup>1</sup> II, vol. 31, no. 3, Nov. 1, 1926 (Rallidae, pt.); III, vol. 32, no. 1, Aug. 1, 1927 (Rallidae, pt.); IV, vol. 32, no. 2, Oct. 20, 1927 (Rallidae, concluded); V, vol. 32, no. 3, Jan. 15, 1926 (Gruidae, pt.); VI, vol. 32, no. 4, May 31, 1928 (Gruidae, pt.); VII, vol. 33, no. 1, Sept. 30, 1928 (Gruidae, concluded); VIII, vol. 33, no. 2, Feb. 15, 1929 (Heliornithidae, Dromadidae); IX, vol. 33, no. 3, May 31, 1929 (Jacanidae); X, vol. 33, no. 4, Oct. 15, 1929 (Burhinidae); XI, vol. 34, no. 1, March 1, 1930 (Glareolidae); XII, vol. 34, no. 3, Nov. 15, 1930 (Charadriidae, pt.); XIII, vol. 34, no. 4, March 2, 1931 (Haematopodidae; Charadriidae, pt.); XIV, vol. 35, no. 1, June 15, 1931 (Charadriidae, pt.); XV, vol. 35, no. 2, Oct. 15, 1931 (Charadriidae, concluded); XVI, vol. 35, no. 3, Feb. 15, 1932 (Recurvirostridae); XVII, vol. 35, no. 4, July 15, 1932 (Scolopacidae, pt.); XVIII, vol. 36, no. 1, Nov. 15, 1932 (Scolopacidae, pt.); XIX, vol. 36, no. 2, April 15, 1933 (Scolopacidae, pt.); XX, vol. 37, no. 1, April 15, 1934 (Scolopacidae, pt.); XXI, vol. 37, no. 2, Aug. 15, 1934 (Scolopacidae, concluded; Phalaropodidae).

153. 1932-35. *The nidification / of / birds of the Indian Empire / by / E. C. Stuart Baker, C.I.E., O.B.E., F.Z.S. etc. / Volume I [-IV]. / Corvidae-Cinclidae [Turridae-Sturnidae (Vol. II); Ploceidae-Asionidae (Vol. III); Pandionidae-Podicepidae (Vol. IV)]. / With eight [six (Vol. II); eight (Vol. III); seven (Vol. IV)] plates. / London: / Taylor and Francis, Red Lion Court, Fleet Street, E. C. 4. / 30th November, 1932 [31st May, 1933 (Vol. II); 23rd April, 1934 (Vol. III); 20th June, 1935 (Vol. IV)].*

4 vols., 8vo (22.6 × 15.7 cm).

Vol. I: pp. i-xxiii [xxiv], 1-470; fotogr. plates I-VIII.

Vol. II: pp. i-vi [vii-viii], 1-564; fotogr. front., fotogr. plates I-V.

Vol. III: pp. i-iv [v-viii], 1-568; fotogr. front., fotogr. plates I-VII.

Vol. IV: pp. i-x [xi-xii], 1-546; fotogr. front., fotogr. plates I-VI.

*Contents*—All vols. contain title, conts., pref. (prefs. dated, respectively, 18 Nov. 1932, 30 May 1933, 4 April 1934, 1 June 1935), list of plates, text, and alphabetical index (indices beginning on pp. 443, 537, 537, and 525). Vol. I contains introd., pp. ix-xxiii. The text treats in detail the nesting habits of all birds known to breed in the Indian Empire, with citations of literature, quotations from various works, and numerous observations by the author. Not a few extralimital forms are also treated.

<sup>1</sup> Family names here given are those of Wetmore, where these differ from nomenclature employed by Baker.

Numbers in parentheses at the beginning of each account are those assigned to the form in the author's *The Fauna of British India . . . Birds*, of 1922-30 (No. 150), the accounts of nidification being, of course, much more extensive than those in that work.

A standard and useful work, presenting concisely and thoroughly all known on the subject at the time of writing. It has been criticized on the grounds that some poorly documented material has been admitted, but it remains a valuable compilation of many obscure and scattered data and provides possibly the only source of information on the breeding habits of some obscure forms.

Reviewed: *Ibis*, 1933:143-145 (vol. I), 558-560 (vol. II); 1934:650-652 (vol. III); 1935:891-895 (vol. IV). *Auk*, 1933:241, 456; 1934:410; 1935:474-475 (same order of vols., all reviewed by Witmer Stone).

154. 1942. **Cuckoo problems** / By / E. C. Stuart Baker / C.I.E., O.B.E., F.Z.S., F.L.S., M.B.O.U., H.F.A.O.U., etc. / With / eight coloured and four monochrome plates / H. F. & G. Witherby Ltd. / 326 High Holborn, London / 1942.

8vo (21.7 × 14.0 cm). Pp. i-xvi, 1-207; plates I (front.) II-XII (plates I-VIII col., of eggs; half-tone plates X-XI of pencil drawings; plate XII, photos.), correction slip at p. 127.

*Contents*—Half-title; title (note on v.; “First published . . . 1942”); foreword; pref., pp. ix-xii; conts.; list of plates; text, pp. 1-180, in parts I-V and chapters I-XXII; appendices I-VII and VIIa, pp. 181-207, giving detailed data on various phases of the parasitic habit of cuckoos. Titles of the parts are: “The need for adaptation of cuckoos’ eggs to those of the fosterers; Has any evolution taken place in adaptation of cuckoos’ eggs to those of the fosterers?; How has adaptation been attained?; How is the cuckoo’s egg placed in the nest?; Other cuckoo problems.”

A detailed account of the parasitic habit of the old world cuckoos (emphasis on *Cuculus canorus*), with particular attention to their choice of and adaptations to various hosts, matters for years among the author’s chief interests. Bookplate: L. G. Bates.

Reviewed: *Auk*, 1943:113-117 (H. Friedmann)—see also *ibid.*, 476-477; *Ibis*, 1943:112-113 (D. Lack); *Bird-Banding*, 1942:191 (M. M. Nice).

BAKER, THOMAS BARWICK LLOYD (1807-1886)

155. 1835. **An / ornithological index**, / arranged according to / the Synopsis Avium / of / Mr. Vigors. / By T. B. L. Baker, Esq. / London: / printed by Richard Taylor, Red Lion Court, Fleet Street, / and / sold by W. Wood, Tavistock Street, Covent Garden. / 1835.

8vo (22.0 × 13.7 cm, untrimmed). Pp. i-vii [viii], 1-187 [188].

*Contents*—Title, p. i; pref., pp. iii-v; “List of abbreviations and of authors indexed,” pp. vi-vii (corrigendum at foot of latter); text, or “An ornithological index,” pp. 1-177; “Tabular index to the orders, tribes, &c.,” pp. 179-181; general index, pp. 183-187. The text consists of the names of families, genera, and species, arranged in

the order of an earlier synopsis by N. A. Vigors (*Zool. Jour.*, vol. II, 1825, pp. 391-405).<sup>1</sup> Within this framework are inserted the names of genera and species mentioned by many authors, with page references to their works. In the pref., one Mr. Prince is reported to have taken a considerable part in the preparation of the work.

An early and little-known attempt at a check-list and bibliography of the genera and species of birds, the usefulness of which, even at the time, must have been somewhat impaired by the fact that the author, as he admits himself, was not an ornithologist.

Bookplate of Francis Hubert Barclay is inscribed by him: "F. H. Barclay. / June 1896. / From H. Seebohm's Library." Interleaved with numerous annotations, possibly Henry Seebohm's, although these are in a hand seemingly a little different from Seebohm manuscript available.

BMNH, I:90, Wood 219. Reviewed: *Mag. Nat. Hist.*, vol. VIII, 1835:411-412.

BALDWIN, SAMUEL PRENTISS (1868-1938) and SAMUEL CHARLES KENDEIGH

156. 1932. Scientific Publications / of the / Cleveland Museum of Natural History / Vol. III Issued, October 15, 1932 Vol. III / *Physiology of the temperature of birds* / By S. Prentiss Baldwin and S. Charles Kendeigh / Contribution No. 21 / from The Baldwin Bird Research Laboratory / Gates Mills, Ohio.

8vo (23.5 × 15.5 cm). Pp. i-x, 1-196 [6]; photogr. front., photogr. plates I-V, text-figs. 1-41 (line-cuts).

*Contents*—Series-title (Scientific Publications / of the / Cleveland Museum / of / Natural History / Volume III / [*Monogram*] / Cleveland, Ohio / 1932.); conts. of vol. III; list of illustrs.; list of text-figs.; list of tables; title, p. 1 (as above); conts., pp. 2-3; text, pp. 5-160, complexly subdivided, with material grouped under the major headings Introduction, Methods of study, Body temperature of adult birds, Body temperature of nestling birds, Temperature of eggs and nest, and Summary and conclusions; bibl., pp. 161-173; index, pp. 175-196; 1 blank leaf; list of contributions of the Baldwin Bird Research Laboratory, 2 leaves.

Vol. III of the series is entirely occupied by this well-known and much cited paper which is largely devoted to the House Wren.

Reviewed: *Auk*, 1933:129-130 (Witmer Stone).

BALDWIN, SAMUEL PRENTISS; HARRY CHURCH OBERHOLSER; and LEONARD G. WORLEY

157. 1931. Scientific Publications / of the / Cleveland Museum of Natural History / Vol. II Issued, October 14, 1931 Vol. II / *Measurements of birds* / by / S. Prentiss Baldwin, Harry C. Oberholser, / and Leonard G. Worley / Illustrations by James Manson Valentine / Contribution No. 17 / from The Baldwin Bird Research Laboratory / Gates Mills, Ohio.

8vo (23.2 × 15.5 cm). Pp. i-ix [x], 1-165 [166] [4]; text-figs. 1-151 (line-cuts).

<sup>1</sup> Date and pagination from Carus and Engelmann.

*Contents*—Series-title (Scientific Publications / of the / Cleveland Museum / of / Natural History / Volume II / [Monogram] / Cleveland, Ohio / 1931.); conts. of vol. II; Publications of the Cleveland Museum; list of illustrs.; title, p. 1 (as above); conts., introd.; text, pp. 9-120; bibl., pp. 121-143; index, pp. 145-165; list of contributions from the Baldwin Bird Research Laboratory, 2 leaves.

Vol. II of the series is entirely occupied by this useful manual. The abundantly illustrated text describes the methods of taking most of the measurements of birds in general ornithological use, as well as many of rare application. Unfortunately little notice is taken of the different methods used in Europe.

Reviewed: *Auk*, 1932:124 (Witmer Stone); *Ibis*, 1932:355-356.

#### BANGS, OUTRAM (1862-1932)

158. 1930. Bulletin of the Museum of Comparative Zoölogy / at Harvard College / Vol. LXX. No. 4 / Types of birds now in the Museum of / Comparative Zoölogy / By Outram Bangs / Cambridge, Mass., U.S.A.: / printed for the Museum / March, 1930.

(23.5 × 15.6 cm). Pp. [2] 147-426.

*Contents*—Title, 1 leaf; text, pp. 147-426, listing the types and cotypes of 1,241 species and subspecies of birds at the Museum of Comparative Zoölogy at the time of writing, whether or not the names based on the types were in synonymy. For each type is given original source of description, number and sex, original collection, date of collection (when known), collector, and type locality. Frequent taxonomic comment appears as well.

A scholarly and useful work. The present is a separately bound copy, with original paper covers preserved. Reviewed: *Auk*, 1930:434-435 (Witmer Stone).

#### BANNERMAN, DAVID ARMITAGE (1886- )

159. 1922. The Canary Islands / their history, natural history / and scenery / an account of an ornithologist's / camping trips in the archipelago / By / David A. Bannerman / M.B.E., B.A. (Cantab), M.B.O.U., F.R.G.S., Etc. / With illustrations and maps / Gurney and Jackson / London: 33 Paternoster Row / Edinburgh: Tweeddale Court / 1922.

8vo (23.1 × 15.0 cm, untrimmed). Pp. i-xv [xvi], 1-365 [366]; col. front. (ornith., by Roland Green), 45 plates<sup>1</sup> (2 col., ornith., by H. Grönvold; 43 photogr., 6 fold.; 81 photos. in all), 4 fold. maps.

*Contents*—Half-title; title; ded.; foreword, pp. vii-ix (dated October, 1921); conts.; list of illustrs.; text, chapters I-XV, in 3 parts (Part I, pp. 1-154, Discovery and early history; Part II, pp. 155-252, Travels and ornithological explorations in the western Canary Islands; Part III, pp. 253-318, Travels and ornithological explorations in the eastern Canary Islands); Appendix A, pp. 321-327, "Note on a fall of dust . . . at Gran Canaria. . ." (by W. Campbell Smith); Appendix B, pp. 328-350,

<sup>1</sup>Zimmer gives 46. Only 45 are called for, as found in the present copy.

List of birds of the Canary Islands, briefly annotated, giving status of all species; index, pp. 351-365.

"A very thorough account of the subject, entertainingly written, with voluminous notes on the natural history of the country, a large number of which are ornithological" (Zimmer). The work forms a popular supplement to the author's technical report on the same area entitled "List of the birds of the Canary Islands with detailed reference to the migratory species and the accidental visitors" (Parts I-VII; *Ibis*, 1919:84-131, 291-321, 457-495, 708-764; 1920:97-132, 323-360, 519-569; also issued separately).

Wood, 220; Zimmer, 39. Reviewed: *Ibis*, 1922:354-355; *Auk*, 1922:279-280 (Witmer Stone). Technical paper reviewed in *Auk*, 1920:607-609 (W. Stone).

160. 1930-51. *The / Birds of Tropical West Africa / With Special Reference to those of the Gambia, / Sierra Leone, the Gold Coast and Nigeria / By / David Armitage Bannerman / M.B.E., M.A. (Cantab.), F.R.S.E. / Zoological Department, British Museum of Natural History / [Etc., 3 lines.]. / With Preface by The Right Honourable Lord Passfield, / Secretary of State for the Colonies / Maps and Coloured Plates / Volume one [-eight (For other changes in titles of vols. II-VIII see note immediately below)] / Published under the Authority of the / Secretary of State for the Colonies by / The Crown Agents for the Colonies / 4 Millbank, Westminster, London, S.W. 1 / 1930 [1931; 1933; 1936; 1939; 1948; 1949; 1951].*

*Note*—Although the general form of the title transcribed above is preserved, there are many minor changes in later titles besides those indicated above. These are as follows: (1) in vol. V the line of author's degrees, etc., becomes "M.B.E., Sc.D., M.A. (Cantab.), F.R.S.E."; in vols. VI and VIII "M.B.E., M.A. (Cantab.), Sc.D., F.R.S.E."; and in vol. VII "M.B.E., O.St.J., M.A., Sc.D. (Cantab.), F.R.S.E." (2) The line in vols. I and II reading "Zoological Department, British Museum of Natural History" reads in all subsequent vols. "Zoological Department, British Museum (Natural History)." (3) The number of lines devoted to honors, positions, etc., held by the author (starting "Zoological Department") varies, consisting of 4 (vol. I), 5 (vols. II-IV, VIII), 7 (vol. V), and 6 (vols. VI-VII) lines. (4) The lines referring to the pref. appear only in vol. I. (5) The line which in vols. I, II, V, and VI reads "Maps and Coloured Plates" becomes in vols. III and IV "Map and Coloured Plates"; in vol. VII is replaced by 2 lines reading "14 Coloured Plates by / George Lodge"; and does not appear at all in vol. VIII.

8vo (25.7 × 18 cm), 8 vols.

Vol. I: pp. i-xxxv [lxxvi], 1-376 [2] (advt.); plates 1 (front.), 2-3 (col. maps), 4-10 (col., offset lith.), text-figs. A-C, 1-119 (half-tones, line-cuts), 3 text-figs. (in introd.).

Vol. II: pp. [2] i-xxix [xxx], 1-428; col. plates 1 (front.), 2-15, text-figs. 1-114 (half-tones, line-cuts), col. fold. map.

Vol. III: pp. i-xxxv [xxxvi], 1-487; col. plates 1 (front.), 2-12, text-figs. 1-114 (half-tones, line-cuts), col. fold. map.

Vol. IV: pp. [2] i-xl, 1-459 [4] (advt.); col. plates 1 (front.), 2-14, text-figs. 1-117, fold. table, fold. col. map.

Vol. V: pp. i-xliii [xliv], 1-485 [2] (advt.); col. plates 1-10 (plate 1 being a map), text-figs. 1-99, col. fold. map.

Vol. VI: pp. [i-ii (blank)] iii-xxxix [xl], 1-364; col. plates 1 (front.), 2-14, text-figs. 1-62.

Vol. VII: pp. i-xxxv [xxxvi], 1-413; col. plates 1-14, text-figs. 1-40.

Vol. VIII: pp. i-xxiv, 1-552; 15 text-figs.

*Contents*—All vols. contain half-title, title, pref. (the first by Lord Passfield, remainder by author, dated [vols. II-VIII] Oct., 1931; Sept., 1933; Feb., 1936; Dec., 1938; 1 May, 1947; 1 Jan., 1949; and 1 Jan., 1951), lists of plates (except vol. VIII) and text-figs., systematic index (except vol. VIII, which has a "guide to contents . . ."), illustrated keys to orders (extensively illustrated with many unnumb. figs. not counted in collation above; vol. VIII has no key), text, and index (indices start on pp. 365, 415, 467, 439, 466, 353, 403, and 487, respectively). In addition, vol. I contains a lengthy introd. explaining method of the work and describing the area, pp. xvii-xlv; ornithological history, pp. xlvi-lv; terminology of a bird, pp. lvi-lvii; glossary, pp. lix-lxi; methods of measurement, p. lxii; and bibli., pp. 359-363. Vol. IV contains a folded table showing classification of the passerines, opposite p. xvi, and addenda to vols. I-III, pp. xxxix-xl. Vol. VI contains a foreword by B. H. Bourdillon, and vols. VI, VII, and VIII each contain a general guide showing arrangement of the whole work (pp. xxxvii-xxxix; xxxiii-xxxv; xiii-xv). Vol. VIII contains "A list of species new to the West African list" since completion of the volumes in which they should have appeared, pp. xvii-xix; a "Table of the numbers of species and subspecies" treated in the entire work, p. xx; a "Supplementary list" of important records from Gaboon and the Middle Congo received too late for inclusion in vol. VII, pp. xxi-xxiv; and general indices to scientific and common names for the entire work, pp. 511-552. The text, which includes keys wherever appropriate, consists of detailed discussions of higher groups and carefully organized treatments of each form included, giving scientific and vernacular (English, French, German, local) names, abbreviated synonymy, description, field identification, range and local distribution, and habits, with citation of literature, correspondence, etc., when called for. The eighth and final volume forms a supplement to the rest. The many illustrations, which add greatly to the utility and attractiveness of the volumes, are by Henrik Grönvold, George Lodge, Henry Jones, F. W. Frohawk, Roland Green, W. P. Tension, William Woodhouse, Philip Rickman, and Chloe Talbot-Kelly.

A concise, authoritative, and exemplary work on the birds of a huge and interesting area, and of use far beyond the borders of this region. The demand for the work in a more convenient form proved so great that an abridgment in two volumes was published in 1953 under title of *The birds of west and equatorial Africa*.

Nissen, 73. Reviewed: *Auk*, 1931:285-286 (Witmer Stone), *Ibis*, 1930:505-507 (vol. I); *Auk*, 1932:244 (W.S.), *Ibis*, 1932:356-358 (vol. II); *Auk*, 1934:107-108 (W.S.), *Ibis*, 1934:182-183 (vol. III); *Ibis*, 1937:189-191 (vol. IV); *Ibis*, 1939:364-366 (vol. V); *Ibis*, 1949:154-155 (vol. VI); *Auk*, 1951:123-125 (J. Delacour; vol. VII).

BARBOUR, THOMAS (1884-1946)

161. 1923. *Memoirs of the Nuttall Ornithological Club / No. VI / The birds of Cuba / By Thomas Barbour / With four plates / Cambridge, Massachusetts / published by the Club / June, 1923.*

4to (27.3 × 22.0 cm). Pp. 1-141; fotogr. plates I (front.), II-IV (in sepia).

*Contents*—Title; introd., pp. 3-21, including discussions of various aspects of the area; annotated list of the birds of Cuba, pp. 23-130; list of plates, p. 131; index, pp. 133-141. The annotations give the status of each species in varying detail, with reference to habits, habitats, and in many cases reference to specific records by the author and others.

A brief, useful, and authoritative account of the subject, now outdated by the same author's revised work, published in 1943 under title of "Cuban ornithology" (*Mem. Nuttall Orn. Club*, no. 9, 144 pp.; cf. *Auk*, 194: 151).

Zimmer, 39. Reviewed: *Auk*, 1923:548-549 (Witmer Stone).

#### BARCLAY-SMITH, PHYLLIS

162. 1939. **British birds / on lake, river and stream /** With sixteen colour plates after the originals in / *The birds of Great Britain* by John Gould / and a text by / Phyllis Barclay-Smith, F.Z.S., M.B.O.U. / [*Decor.*] / *The King Penguin Books* / Published by Penguin Books Ltd. Harmondsworth / Middlesex England.

(18.2 × 12.0 cm). Pp. 1-31; col. plates I-XVI (printed both sides; offset lith. from liths.), 1 text-fig. (line-cut portr. of J. Gould).

*Contents*—Title; conts.; "John Gould—The Bird Man," pp. 5-9; "Birds of lake, river and stream," pp. 10-11; introductory, pp. 12-31, giving popular accounts of several birds shown in the plates.

An attractive little book of no special ornithological importance. The biography of John Gould is short but informative and the much-reduced plates are well reproduced.

Reviewed: *Ibis*, 1940:355.

#### BARLOW, FRANCIS (1626?-1702)

163. ca. 1760. **Various / Birds and Beasts / Drawn from the Life** by / Francis Barlow. / [*Rule*] / London / Printed for T. Bowles in St. Pauls Church-Yard, / John Bowles & Son, at the Black Horse in Cornhil & / Robt. Sayer at the Golden Buck in Fleet Street.

Oblong broadsheet (22.8 × 36.0 cm). Engr. plates 1-67.

*Contents*—Engraved title, plate 1 (also designated a); plates 2-8 (also designated b-h, all but 7 and 8 ornithological); engraved section-title (*Diversae Avium Species Studiosissime ad Vitam delineatae / Per Fra: Barlow Insignissim: Anglum Pictorem.* / Printed for Robt. Sayer at the Golden Buck in Fleet Street.), plate 9 (also designated A.1); plates 10-16 (also designated A.2-A.8, all ornithological); engraved section-title (*Animals of Various Species / Accurately Drawn / by Francis Barlow.*), plate 17 (also designated B.1); plates 18-28 (none ornithological, plates 18, 25, and 27-28 also designated B.2, B.9, and B.11-B.12); engraved section-title (*Divers Species / of / Birds, / Drawn after the Life, / in their Natural Altitudes [sic], / by / Francis Barlow.*), plate 29; plates 30-40 (all ornithological,

plates 31, 36-40 also designated 3.A, 8.A.-12.A.); engraved section-title (Birds & Fowles of Various Species / Drawn after the Life / in their Natural Altitudes [*sic*], / by / Francis Barlow.), plate 41; plates 42-67 (all ornithological, plates 44, 49-50, 54-56, and 62-65 also designated 4.C, 9.C.-10.C., 2.D-4.D., and 10.D.-13.D.).

A collection of the engravings of Francis Barlow, who enjoyed a considerable reputation as an animal artist in his time.

Original publication of the engravings collected in this edition took place in 1655, 1659 and 1660-1670 (Nissen), and a copy described by Mullens and Swann, with a title-page identical to that of the Ellis copy, was dated by them [1690?] on the stated authority of the British Museum. Another such copy is dated [1710?] by the BMC. Nevertheless the date of publication of this particular collection cannot be earlier than 1754 when the partnership of John Bowles and Son was formed, nor is it likely to be much later than 1764 when the partnership was dissolved. The section-titles of the example described by Mullens and Swann agree with those of No. 164 (*q.v.*). A later republication of some of the plates is described below as No. 165.

Mullens and Swann, 37-39; Nissen, 76.

164. 1775. Barlow's Birds and Beasts, / in / sixty-seven Excellent and Useful Prints, / being a / Collection / of the / Chief Works of that Eminent Master; / and / Engraved by himself, Hollar, Place, &c. / All Drawn from the Life, / Shewing in their Natural and Peculiar Attitudes a vast Variety of Birds, Fowles and Beasts. / [*Double rule*] / London, / Printed for, and Sold by, Carington Bowles, at his Map and Print Warehouse, No 69, in St. Paul's Church-Yard. 1775. / [Price Half a Guinea sewed.]

Oblong broadsheet (22.8 × 37.0 cm). 1 leaf; engr. plates 1-67.

*Contents*—Title; engraved title (Various / Birds and Beasts / Drawn from the life by / Francis Barlow / [*Rule*] / London / Printed for C. Bowles in St. Paul's Church-Yard, / John Bowles, at the Black Horse in Cornhil & / Robt. Sayer at the Golden Buck in Fleet Street.), plate 1 also designated a; plates 2-8 (also designated b-h, all but 7 and 8 ornithological); engraved section-title (Diversae Avium Species Studiosissime ad Vitam delineatae / Per Fra: Barlow Insignissim: Anglum Pictorem. / Printed for Robt. Sayer at the Golden Buck in Fleet Street.), plate 9 (also designated A.1); plates 10-16 (also designated A.2-A.8, all ornithological); engraved section-title (Animals of Various Species / Accurately Drawn / by / Francis Barlow.), plate 17 (also designated B.1); plates 18-28 (also designated B.2-B.12, none ornithological); engraved section-title (Divers Species / of Birds / Drawn after the Life / in their Natural Altitudes [*sic*] / by / Francis Barlow. / Part I.), plate 29 (also designated 1.A); plates 30-40 (also designated 2.A-12.A, all ornithological); engraved section-title (Birds & Fowles of Various Species / Drawn after the Life / in their Natural Altitudes [*sic*], / by / Francis Barlow. / Part 2d.), plate 41 (also designated 1.C); plates 42-52 (also designated 2.C-12.C., all ornithological); engraved section-title (plate of several birds surrounding eagle with caption at foot: Birds of various Species, both Foreign & English, Drawn after the Life, by Francis Barlow.), plate 53 (also designated 1.D.); plates 54-67 (also designated 2.D-15.D., all ornithological).

Plates 2-18, 25, 27-28, 31, 36-40, 44, 49-50, 54-56, 62-65 are identical to those in No. 163. The text of plate 1 has been altered as shown (No. 163: T. Bowles; No. 164: C. Bowles; No. 163: John Bowles & Son; No. 164: John Bowles). The words Part I and Part 2d have been added to the text of plates 29 and 41. The caption title has been added to plate 53. Plates 19-24, 26, 29-30, 32-35, 41-43, 45-48, 51-53, 57-61, and 66-67 face in opposite directions in Nos. 163 and 164, and those in No. 164 have additional information about the artists who made them (*e.g.*, plate 19 in No. 163: Fra. Barlow delin., in No. 164: B.3. F. Barlow delin. I. Griffier Fecit. P. Tempest ex:). Plates 21 and 24 are reversed not only in direction but in position in Nos. 163 and 164. In No. 164 (and in both 163 and 164 where the plates are identical) there are traces of a former numbering visible on plates 6 (old number 11), 17-30 (1-14), 33-35 (17-19), 37-40 (21-24), 43-52 (29-38), 59-60 (14-15), 66-67 (26, 25).

The example dated [1690?] by Mullens and Swann (p. 38) appears to have an engraved title-page identical with Ellis No. 163 but internal section-titles identical with plates 29 and 41 of Ellis No. 164.

165. 1799. A / collection / of / birds and beasts; / on Thirty-six Quarto Plates; / finely drawn and engraved after life, / by / Francis Barlow. / [*Double rule*] / A New Edition / [*Double rule*] / London. / Published by Robert Laurie and James Whittle, / map, chart, and print-sellers, / No. 53, Fleet-Street, / (successors to the late Mr. Robert Sayer.) / 1799. / [*Double rule*] / Price Six Shillings.

Oblong broadsheet (17.6 × 23.4 cm). 1 leaf; plates 1-36.

*Contents*—Title; engraved title (Divers Species / of / Birds &c. / Drawn after the Life, / in their Natural Altitudes [*sic*] / by / Francis Barlow. / Published 15th Augst. 1799 by Laurie & Whittle 53 Fleet Street London.), captioned Vulture and Eagles, plate 1; plates 2-36 (2-20 ornithological).

Plate 10 is identical with plate 60 of No. 163. Plates 1-9, 11-13, 16-27, and 33-36 are identical with plates of No. 163 save for a change in the order and hence the numbering, and the addition of descriptive captions to the examples in this edition (*e.g.*, Plate 11 of No. 165 is captioned "F. Barlow delin. A Heron & Wild Ducks" while its counterpart in No. 163 is numbered 47 and captioned "F. Barlow delin."). Plates 14-15 and 28-32 appear in neither No. 163 or 164.

BARNES, RICHARD MAGOON, *ed.* (1862-1945)

166. 1922. The American oologists' / exchange price list / of / North American birds' eggs / 1922 / [*Orn.*] / Compiled by / A Committee of Twenty-five / Prominent American Oologists / Published by / R. Magoon Barnes / Lacon, Ill., U.S.A. [*Cover-title*]

8vo (23.5 × 15.3 cm). Pp. 3-97, 25 half-tone plates.

*Contents*—A complex miscellany of articles, advertisements, etc., pertaining to oology, concluded by an "exchange price-list," (printed recto only). Pp. 41-87, setting forth "standard" price evaluations per egg for each "A. O. U. species," intended to fix exchange rates rather than actual sale values. The 25 oologists of the com-

mittee included W. L. Dawson, R. C. Harlow, Col. John E. Thayer, A. C. Bent, and H. H. Bailey.

This odd little booklet was reprinted under the above title from *The Oologist* for 1920. Of little ornithological importance it contains some material of historical and biographical interest.

BARRERE, PIERRE (1690-1755)

167. 1741. *Essai / sur / l'histoire naturelle / de la / France Equinoxiale. / Ou / denomination / Des Plantes, des Animaux, & des Miné- / raux qui se trouvent dans l'Isle de Cayen- / ne les Isles de Remire, sur les Côtes de / la Mer, & dans le Continent de la Guyane. / Avec / Leurs noms differens, Latins, François, & Indiens, / & quelques Observations sur leur usage dans / la Médecine & dans les Arts. / Par Pierre Barrere Corres- / pondant de l'Académie Royale des / Sciences de Paris, Docteur & Professeur / Royal en Médecine dans l'Université de / Perpignan, Médecin de l'Hôpital Mili- / taire de la même Ville, ci-devant Méde- / cin Botaniste du Roi dans l'Isle de / Cayenne. / [Orn.] / A Paris, / Chez Piget, Quay des Augustins, à / l'Image S. Jacques. / M. DCC. XLI.*

12mo (17.5 × 10.5 cm). Pp. i-xxiv, 1-215 [9].

*Sigs.*—a<sup>8</sup> e<sup>4</sup> A-R<sup>8/4</sup> S-T<sup>4</sup>; 124 leaves.

*Contents*—Half-title, a1 (v. blank); title, a2 (v. blank); ded., a3<sup>r</sup>-a4<sup>r</sup> (pp. v-vii); avertissement, a4<sup>v</sup>-e1<sup>r</sup> (pp. viii-xvii); "Explication des noms abrégés des Auteurs cités dans ce Livre," e1<sup>v</sup>-e4<sup>v</sup> (pp. xviii-xxiv); text, A-S4<sup>r</sup> (pp. 1-215; S4<sup>v</sup> blank), in 2 parts, the first devoted to plants, the second to animals and minerals (birds, pp. 121-148); "Extrait des Registres de l'Académie Royale des Sciences, de 14 Juin. 1741" (dated 15 June 1741) and "Privilege du Roy", T1<sup>r</sup>-T4<sup>r</sup> (T4<sup>v</sup> blank). Agreeing with Zimmer, I quote: "Descriptions of the animals, plants and minerals of French Guiana. . . . The species are grouped in genera arranged alphabetically. Since the book is pre-Linnean, none of the names are tenable, but the descriptions often form the basis for names afterwards applied by Linne."

A little-known early work on the natural history of the New World. The author lived for several years in French Guiana. His *Nouvelle relation de la France Equinoxiale* of 1743 (No. 168) is not a second edition of the present, as Wood seems to imply. Another issue of the *Essai* is dated 1749 (BMNH, Ronsil).

BMNH, I:101; Ronsil, 150; Sabin, 3603; Wood, 221; Zimmer, 40 (and pl. II).

168. 1743. *Nouvelle / relation / de la / France Equinoxiale, / contenant / La Description des Côtes de la Guiane; de / l'Isle de Cayenne; le Commerce de cette / Colonie; les divers changemens arrivés / dans ce Pays; & les Mœurs & Coûtumes / des différens Peuples Sauvages qui l'ha- / bitent. / Avec / Des Figures dessinées sur les lieux. / Par Pierre Barrere, Correspondant de / l'Académie Royale des Sciences de Paris, Docteur & / Professeur en Médecine dans l'Universi- / té de Perpi- / gnan, Médecin de l'Hôpital Militaire de la même / Ville, ci-devant Médecin- / Botaniste du Roi dans l'Isle / de Cayenne. / [Orn.] / A Paris, /*

Chez { Piget, Quai des Augustins, à St. Jacques. /  
 Damonville, Quai des Augustins, à St. / Etienne. /  
 Durand, ruë St. Jacques, au Griffon. /  
 M. DCC. XLIII.

12mo (15.8 × 9.4 cm). Pp. [4] i-iv, 1-250 [6]; 17 engr. fold. plates, 2 engr. folding maps (should be 3).

Sigs.—[a]<sup>4</sup> A-V<sup>3/4</sup> X<sup>8</sup>; 132 leaves.

Contents—Half-title, [a]1<sup>r</sup> ([a]1<sup>v</sup> blank); title, [a]2<sup>r</sup> ([a]2<sup>v</sup> blank); avertissement, [a]3<sup>r</sup>-[a]4<sup>v</sup> (pp. i-iv); text, A-V4 (pp. 1-240), in chapters I-V; table des matières, XI<sup>r</sup>-XV<sup>v</sup> (pp. 241-250); privilege and colophon, X6<sup>r</sup> (X6<sup>v</sup> blank); 2 blank leaves (X7, X8). The text is an account of the matters listed in title, and contains scattered references to birds.

Distinct from the author's *Essai sur l'histoire naturelle de la France Equinoxiale* of 1741 (No. 167) and not a second edition thereof, as seemingly implied by Wood. Although of considerable interest in other respects, the work has little ornithological importance. Evidently this is the first edition.

BMNH, I:101; Sabin, 3604.

169. 1745. *Ornithologiæ / specimen novum, / sive / series avium in Ruscinone, / Pyrenæis Montibus, atque in Galliâ Æqui- / noctiali Observatarum, in Classes, genera / & species, novâ methodo [sic], digesta. / Auctore Petro Barrere, Societatis / Regiæ Scientiarum Mospeliensis Socio, in Acade- / miâ Perpinianensi Medicinæ Professore, Nosoco- / mii Regii Militum Medico, in Insulâ Gallo-Ame- / ricanâ Cayennâ, olim Medico ac Botanico Regio. / [Orn.] / Perpiniani, / Apud Guill. Simonem Le Comte, / Regis Typographum. / M. DCC. XLV.*

4to (18.6 × 13.7 cm). Pp. [15] 14-84 [85-96]; 1 engr. fold. plate.

Sigs.—A<sup>4</sup>(A1 + χ1), B-M<sup>4</sup>; 49 leaves.

Contents—Title, A1 (v. blank save for ornament); ded., 1 (v. blank); "Ratio operis," A2<sup>r</sup>-A3<sup>r</sup>; "Auctores in hoc opere citati," A4<sup>r</sup>-v; "Index classium et generum avium," B1<sup>r</sup>-B2<sup>r</sup>; caption for folding plate of birds' feet and bills, B2<sup>v</sup>; folding plate; text, B3<sup>r</sup>-L2<sup>r</sup> (pp. 13-83), being a classification of birds arranged in four "classes" and sixty-two genera; addenda, L2 (pp. 83-84); index, L3<sup>r</sup>-L4<sup>v</sup>; table of French names, M1<sup>r</sup>-M2<sup>v</sup>; "Approbation" (dated 2 September 1745), "privilege", etc., M3<sup>r</sup>-M4<sup>v</sup>.

An early and little known attempt at a classification of birds.

This copy belonged to Thomas Campbell Eyton (no. 173 in the Sotheby sale of his natural history books on 17 June 1881) and later to Alfred Newton of Magdalene College, Cambridge (ownership stamp on title-page dated 22 June 1881). An 18th century owner has annotated the text, and a note of Newton's on a binder's leaf suggests "For Brisson's opinion of this book see his 'Ornithologia' vol. 1, preface pp. x, xi."

BMNH, I:102; Newton, 8; Ronsil, 150; Wood, 221.

## BARRETT, Sir JAMES WILLIAM (1862-1945)

170. 1925. *Save Australia / a plea for the right use / of our flora and fauna / by various writers / edited by / Sir James Barrett, K.B.E., C.B., C.M.G., M.D. / Melbourne: / Macmillan & Co. Ltd. / Head Office: London / 1925.*

(18.1 × 12.2 cm). Pp. i-viii, 1-231; 22 photogr. text-figs., 6 maps (line-cuts).

*Contents*—Title; conts.; list of illustrs.; introd. material of various sorts, and complexly divided text by various authors (“Australian birds; their place in nature,” by J. A. Leach, occupies pp. 101-122); index, pp. 227-231. Frequent reference to birds appears in various portions of a text devoted primarily to other subjects. Several Australian birds are illustrated.

A popular work devoted to conservation in Australia.

## BARRETT-HAMILTON, GERALD EDWIN HAMILTON (1871-1914)

171. 1892 (1891?). *Harrow School / Scientific Society's Memoirs. / 1891. / Harrow birds: / by / G. E. H. Barrett-Hamilton, / Member of the British Ornithologist's [sic] Union. / Harrow: / sold for the Society by J. C. Willbee. / 1892.*

(17.5 × 12.2 cm). Pp. i-xiii [xiv], 1-50.

*Contents*—Title; pref., pp. iii-iv; errata, p. v; addenda, p. vi; index, pp. vii-xiii; text, pp. 1-50, consisting of briefly annotated accounts of the birds of Harrow, Middlesex.

Considerable information on local birds is incorporated in this concise little book. Among former students of Harrow who contributed notes was the active ornithologist Lord Lilford (T. L. Powys, fourth Baron Lilford).

Mullens and Swann, 40-41; Wood, 222.

## BARRINGTON, GEORGE (1775-1804)

172. 1801. *A / Voyage / to / Botany Bay / with a description of the Country, / manners, Customs, religion, &c. of the / Natives / by the Celebrated / George Barrington. / [Vign.] / To which is added his / Life and Trial / London. / Printed by C. Lowndes, and / Sold by H. D. Symonds, No. 20, Paternoster Row.*

Second part titled:

*A sequel / to / Barrington's voyage / to / New South Wales, / comprising an / interesting narrative / of the / transactions and behaviour of the convicts; / the progress of the Colony; / an official register / of the / crimes, trials, sentences, and executions / that have taken place: / a topographical, physical, and moral account of the / country, manners, customs &c. of the natives, — / as likewise / authentic anecdotes / of the most distinguished characters, and / notorious convicts that have transported to / the settlement at New South Wales. / By the celebrated / George Barrington, / Principal Superintendent [sic] of the convicts. / London. / Printed and published by C. Lowndes, / No. 66, Drury-Lane; / and sold by H. D. Symonds, Paternoster Row. / 1801.*

2 vols. in 1, 12mo (17.4 × 10.4 cm). Part 1: pp. [1-3] 4-120; engr. port., engr. t.-p. Part 2: pp. [4] vii-viii, [5] 6-88 [89-94].

*Sigs.*—Part 1: A-K<sup>6</sup>; 60 leaves. Part 2: [A]<sup>8</sup> (—A4-6, A1.3 conjugate) B-H<sup>8</sup> I1-3(=A4-6, I1.3 conjugate, I1 and I2 signed A and I respectively); 48 leaves.

*Contents*—Part 1: engr. front.; engr. t.-p.; author's epistle (dated Paramatta, November, 1793), p. 1; contents, pp. 3-6; "The Life of George Barrington," pp. 7-14; "Particulars relating to the Trial and Conviction of George Barrington," pp. 15-18; text (with caption-title "A Voyage to New South Wales"), pp. 19-120. Part 2: title, A1<sup>r</sup>; contents, A2<sup>r</sup>-A3<sup>v</sup>; text (with caption-title "A Voyage to New South Wales. Part II"), pp. 5-86; lists of prices obtaining in New South Wales, pp. 86-88; "An Official Register of the Crimes, Trials, and Executions of the Convicts in New South Wales, From the commencement of the Colony," pp. 89-94.

Although issued by the same publisher and printed on the same paper (blueish and watermarked 1800), the two parts differ in type and style, the first part using the short s exclusively and the second the long s initially and medially. The curious relationship between gatherings A and I in the second part (described above in the signature formula) appears to result from the imposition of two half-sheets in 12's worked together. This method of imposition is illustrated on p. 177 of Caleb Stower's *The Printer's Grammar*, London, B. Crosby and Co., 1808, and discussed on p. 66-70 of R. B. McKerrow's *An Introduction to Bibliography for Literary Students*, Oxford, 1928.

Appearing also as *History of New South Wales* and *Account of a voyage to New South Wales*, this work first came out about 1794. The convict-author is noted not only for this work, which contains lengthy references to the natural history (including slight references to birds), but also for the lines

True patriots we, for be it understood,  
We left our country for our country's good. . . .  
And none will doubt, but that our emigration  
Has proved most useful to the British nation.

Cox, II:317; DNB, *s.v.* Barrington.

## BARROWS, WALTER BRADFORD (1855-1923)

173. 1889. U. S. Department of Agriculture. / Division of Economic Ornithology and Mammalogy. / Bulletin 1. / **The / English Sparrow / (*Passer domesticus*) / in North America**, / especially in its relations to agriculture. / Prepared under the direction of / Dr. C. Hart Merriam, Ornithologist, / by / Walter B. Barrows, / Assistant Ornithologist. / Washington: / Government Printing Office. / 1889.

8vo (23.0 × 14.6 cm). Pp. 1-405; 8 text-cuts, 1 col. fold. map.

*Contents*—Title; letter of transmittal; conts.; prefatory letter (by C. Hart Merriam); introd., pp. 11-13; text, complexly subdivided, pp. 15-357; list of contributors, p. 358-388; index, pp. 389-405. The text presents much information, gleaned from reports submitted by some 3,300 persons in response to a questionnaire circulated by the Division. It is divided into two major parts: (I) "Summaries of Evidence—Recommendations—Special Reports," and (II) "Evidence." Special sections were

prepared by C. V. Riley, on "Insectivorous habits of the English Sparrow (*Passer domesticus*)," pp. 111-133; by A. K. Fisher, on "Destruction of the sparrow by poisons," pp. 174-178; by W. T. Hill, on "The trapping of sparrows for sporting purposes," pp. 178-191; and by O. Widmann, on the "History of the House Sparrow, *Passer domesticus*, and the European Tree Sparrow, *Passer montanus*, at Saint Louis, Mo.," pp. 191-194. Included also are contributions by J. H. Gurney, Jr., pp. 341-345; and Col. C. Russell, pp. 346-348, extracted from *The House Sparrow* (Gurney *et al.*, London, 1885). The list of contributors to the work includes many little-known local observers interested in birds, and might be useful in determining the authorship of some of the initialled contributions common in minor periodical literature of the late 1800's.

A historic report, being the first bulletin of the Division of Economic Ornithology and Mammalogy, later the U. S. Bureau of Biological Survey, and still later the U. S. Fish and Wildlife Service. The report resulted from work begun by an early committee of the American Ornithologists' Union. "The committees on Migration, Geographic Distribution, and the English Sparrow laid out their plans on such an ambitious scale that they speedily outgrew the resources of the Union and within two years were turned over to the U. S. Dept. of Agriculture, forming the nucleus of what is now the Bureau of Biological Survey" (T. S. Palmer, in *Fifty years' progress of American ornithology*, 1933, p. 12; No. 68).

The work is now rather rare. Although its value today is perhaps mainly historic, it remains one of the most exhaustive reports extant on the economic importance of a single species.

Wood, 222. Reviewed: *Auk*, 1889:327-328 (J. A. Allen).

174. 1912. Michigan bird life / A List of all the Bird Species known to occur in the State together with / an outline of their Classification and an account of the / Life History of Each Species, with special reference to its / Relation to Agriculture. With Seventy Full-page Plates / and One Hundred and Fifty-two Text Figures / By / Walter Bradford Barrows, S.B., / Professor of Zoology and Physiology and / Curator of the General Museum / Special Bulletin / of the / Department of Zoology and Physiology / of the / Michigan Agricultural College / 1912.

8vo (23.1 × 15.9 cm). Pp. i-xiv, 1-822; plates I (front.; line-cut), II-LXX (half-tones of wash drawings and photos; line-cuts), text-figs. 1-152 (line-cuts, etc.).

*Contents*—Title; pref., pp. iii-vii; conts.; list of illustrs.; introd., pp. 1-31, describing biotic and physical aspects of Michigan; artificial key to larger groups, pp. 33-34; text, pp. 35-730, with keys to families, species, etc., and with detailed accounts of the status of each form recorded in Michigan as known at the time of writing, with descriptions of each; appendices 1-6, pp. 731-791, as follows—additions and corrections, hypothetical list, bibl. (pp. 758-776), glossary, outline of classification of North American birds, and list of contributors; index, pp. 795-822.

Published at Lansing, this was an authoritative work in its time, now superseded by N. A. Wood's *The birds of Michigan* (Univ. Michigan Misc. Publ., Mus. Zool., no. 75, 1951), which, however, contains no description of the area. The half-tone illustrations, from various earlier sources, or done especially for this work, are by J. L.

Ridgway, E. S. Thompson (later E. T. Seton), L. A. Fuertes, W. F. Jackson, and P. A. Taverner (this Canadian ornithologist being little known as a bird artist).

Wood, 222; Zimmer, 41. Reviewed: *Auk*, 1912:547-548 (Witmer Stone).

BARTHOLIN, THOMAS (1616-1680)

175. 1668. Thomae Bartholini / *Dissertatio / de / Cygni / Anatome*, ejusq; Cantu / à / Johanne Jacobo Bewerlino / in Academia Hafniensi / olim subjecta, / nunc Notulis quibusdam auctior edi- / ta ex schedis Paternis / à / Casparo Bartholino / Thomae Filio. / 16 [*Device*] 68 / [*Rule*] / Apud Daniele[m] Paulli / Regium Bibliopolam. / Literis Henrici Gødiani Reg. & Acade- / miae Typographi.

8vo (14.9 × 9.0 cm). Pp. [1-2] 3-5 [6] 7-45 49 47-96; 1 engr. plate.

*Sigs.*—A-F<sup>8</sup>; 48 leaves.

*Contents*—Title, p.1; ded., pp. 3-4; author's note to the reader, p. 5; engraved plate of skeleton, lungs and hyoid bone of swan, p. 6; explanation of plate, p. 7; text, pp. 8-96.

An early work on the swan.

Wood, 222; Coe, 21.

BARTHOLOMAEUS ANGLICUS (fl. 1230-1260)

176. 1483. [*De proprietatibus rerum*. Nürnberg, Anton Koberger, 30 May 1483]

Folio (30.4 × 21.6 cm). Ff. [1-268].

*Sigs.*—[a<sup>6</sup> b-c<sup>8</sup> d-t<sup>6</sup> g<sup>8</sup> h-i<sup>6</sup> k<sup>8</sup> l-m<sup>6</sup> n<sup>8</sup> o-p<sup>6</sup> q<sup>8</sup> r-s<sup>6</sup> t<sup>8</sup> v-x<sup>6</sup> y<sup>8</sup> z<sup>6</sup> A<sup>6</sup> B<sup>8</sup> C-D<sup>6</sup> E<sup>8</sup> F-G<sup>6</sup> H<sup>8</sup> I-K<sup>6</sup> L<sup>8</sup> M-N<sup>6</sup> O<sup>8</sup> P-Q<sup>6</sup> R<sup>8</sup>]; 268 leaves.

*Contents*—blank, a1; table of contents (“Incipiu[n]t tituli / libror[um] et capituloru[m] venerabilis / Bartholomei anglici de propri / etatibus rerum.”), a2<sup>r</sup>-a6<sup>r</sup>; list of authorities (“Autores de / quoru[m] scriptis / his tractat [*sic*] sunt isti.”), a6<sup>v</sup>; Prohemium, b1<sup>r</sup>; text, b1<sup>v</sup>-R7<sup>v</sup>; colophon (“Explicit tractatus de proprietatibus re- / rum editus a fratre bartholomeo anglico ordi / nis fratrum minor- [um]. Impressus per industrio- / sum viru[m] Anthoniu[m] koburger inclite Nuren- / berge ciue[m]. Anno salutis gratie .M.ccc.lxxxiiij. iij. kal[enda]s. Junij.”), R7<sup>v</sup>; blank R8. Book XII (r4<sup>v</sup>-t1<sup>v</sup>) deals with birds, treating a wide variety of forms.

This popular encyclopedic work was first printed at Basel about 1470 and 26 more editions were published before the end of the 15th century. In John of Trevisa's English translation, published by Wynkyn de Worde about 1495, it was one of the earliest books of natural history printed in the English language, and is one of the sources used by William Turner, the father of English ornithology.

The Ellis copy is bound in contemporary German quarter pigskin (stamped with double eagles and small floral ornaments) over oak boards. The brass clasps are present on the upper board. The fore-edge of the lower board is a modern restoration. Chapter titles and initials have been rubricated and there are a few fifteenth and sixteenth century marginal notes in the sections devoted to medicine

and to the zodiac as well as trimmed remnants of manuscript signature marks in a 15th century hand in the lower right-hand corner of several leaves. Bookplate: Georgius Kloss, M.D., Francofurti ad Moenum (19th century).

GKW 3409; Goff B-137; Mullens and Swann, 45-46 (biogr., hist.); Wood, 222-223 (other edits.).

177. 1582. *Batman / vppon Bartholome, / His Booke / De Proprietatibus Rerum, / Newly corrected, enlarged and amended: / with such Additions as are requi- / site, vuto eury seuerall / Booke: / Taken foorth of the most approued Authors, the like here- / tofore not translated in English. / Profitable for all Estates, as well for the benefite of / the Mind as the Bodie. / 1582. / [Orn.] / London / Imprinted by Thomas East, dwel- / ling by Paules wharfe.*

Folio (29.0 × 19.5 cm). Ff. [14] 1-426 (misprinting 27 as 25, 39 as 49, 108 as 109, 147 as 146, 230 as 229, 234 as 229, 267-268 as 265-266, 305 as 306, 327 as 323, 342 as 337, 367 as 397, 421 as 419).

*Sigs.*— $\pi^2$ , ¶¶¶¶, B-Cccc<sup>6</sup>; 440 leaves. ¶ij mis-signed iij.

*Contents*—Title,  $\pi 1^r$ ; Batman's arms and a poem on them,  $\pi 1^r$ ; ded.,  $\pi 2^r$ ; "To the Reader," signed Stephan Batman,  $\pi 2^v$ ; "The Prologue of the Translatour" (John Trevisa), ¶1<sup>r</sup>; "The names of the Authors to this Booke, in what time, and of what profession," ¶1<sup>v</sup>-¶6<sup>r</sup>; blank, ¶6<sup>v</sup>; "A General Table, containing the number of the Chapters in eury seuerall booke, and how to finde the especiall matters contained in the same," ¶¶1<sup>r</sup>-¶¶5<sup>r</sup>; "Another Table containing the principall matters in this Booke, and where to finde them," ¶¶5<sup>v</sup>-¶¶6<sup>r</sup>; "A necessarie Catalogue, of the most hardest olde English words . . ." ¶¶6<sup>r</sup>-<sup>v</sup>; text, B1<sup>r</sup>-Cccc6<sup>v</sup> (ff.1<sup>r</sup>-426<sup>v</sup>); colophon "Imprinted at London by Thomas East." with East's arms, Cccc6<sup>v</sup>. Book XII, ff. 174<sup>v</sup>-189<sup>r</sup> is devoted to birds.

An edition of John of Trevisa's translation, enlarged and edited by Stephan Batman. The title-page border (no. 126 in *Title-page Borders used in England & Scotland, 1485-1640*, by R. B. McKerrow & F. S. Ferguson. 1932) can be traced to at least as early as 1567.

Wood, 223. STC 1538.

#### BARTLETT, EDWARD (ca. 1836-1908)

178. 1888-89. Part 1 [II-V]. February 29, 1888 [April. 1888; January. 1889; August. 1889; Nov. 30, 1889]. / *A monograph / of the / weaver-birds, / Ploccidae, / and / arboreal and terrestrial [Comma added (Pts. III-V)] / finches, / Fringilidae, / by / Edward Bartlett, / Curator of the Maidstone Museum. / Contents. / Textor dinemelli [Etc., list of species treated, in 2 columns] / Maidstone: / published by the author. / 1888 [1889 (Pts. III-V)]. / Printed by J. Burgiss-Brown, Week Street [Printed by Spottiswoode & Co., New-Street Square, London (Pts. III-V)]. [Wrapper-titles]*

5 pts. in 1 vol., 4to (26.2 × 19.6 cm, untrimmed). 101 leaves (variously paged);

31 lith. col. plates<sup>1</sup> (by F. W. Frohawk; variously numb.). Collation of parts as follows: part 1, 16 leaves, 6 plates; part 2, 26 leaves, 6 plates; part 3, 19 leaves, 7 plates; part 4, 18 leaves, 6 plates; part 5, 22 leaves 6 plates.<sup>2</sup>

*Contents*—Zimmer gives detailed collation and statement of contents, as follows: "All published of a work which was planned to extend to between 90 and 95 parts and to embrace all the known species of Ploceidae and Fringillidae. In the fragmentary form in which the publication remains, the pagination and plate-numbering are incomplete, being distinct for each genus. Collation might be made as follows:

"*Cardinalis*, pp. 1-13 + I, 14-20 + I, plates I-II, 1 text-fig.; *Chrysomitris*, pp. 1-7 + I, plates I-II; *Coccothraustes*, pp. 1-8, plates I-II; *Euplectes*, pp. 1-6, plate I; *Malimbus*, pp. 1-10, plates I-II; *Munia*, pp. 1-58, plates I-VIII; *Paroaria*, pp. 1-11 + I, plates I-III [Plates I-II is correct.]; *Passer*, pp. 1-16, plate I; *Phrygilus*, pp. 1-11 + I, plates I-II; *Ploceus*, pp. 1-12, plates I-II (I missing) [Present in copy at hand.]; *Pyrrhula*, pp. 1-3 + I, 4-11, plates I-III; *Textor* [Italics omitted.], pp. 1-25 + I, plates I-IV.

"As issued, Pt. I contained *Textor dinemelli*, *T. Boehmi*, *Chrysomitris atrata*, *Paroaria cucullata*, *Pyrrhula nipalensis* and *Munia oryzivora* (2 plates); Pt. II, *Cardinalis virginianus*, *Chrysomitris uropygialis*, *Passer domesticus*, *Textor panicivora* (2 plates) and *T. albirostris*; Pt. III, *Munia fuscata*, *M. malacca*, *Cardinalis igneus* (no plate issued), *Phrygilus fruticeti*, *Pyrrhula erithacus*, *Coccothraustes personatus*, *C. melanurus* [Should be *melanurus*.] and *Euplectes flammiceps*; Pt. [Pt.] IV, *Malimbus malimbicus*, *M. cristatus*, *Munia atricapilla*, *M. sumatrensis*, *Pyrrhula erythrocephala*, *Cardinalis phoeniceus* and *Phrygilus alaudinus*; Pt. V, *Ploceus nigerrimus*, *P. albinucha* (not mentioned on wrapper), *P. castaneofuscus*, *Paroaria dominicana*, *Munia minuta*, *M. brunneiceps*, *M. formosana*, *M. ferruginosa*, *M. maja*, *M. pallida*, *M. malaena*, *M. forbesi* and *M. spectabilis*."

The present copy has the plates and text removed from the wrappers of the parts (which are bound at the back save for that of part 1, which serves as title) and the species placed with others of their genera as paged. The text for each species gives synonymy and reference to figures, vernaculars in various languages, "habitat" (i.e., range), "localities" (of record, with authorities), and descriptions of the various plumages. To these are added comment on relationships, natural history, etc., followed by lists of specimens examined.

An ambitious undertaking, unfortunately never completed.

Wood, 224; Zimmer, 41-42. Reviewed: *Ibis*, 1888:360 (pts. 1 and 2); 1890:248-249 (pts. 3-5)—see also announcements, 1885:330; 1888:286.

#### BARTON, BENJAMIN SMITH (1766-1815)

179. 1799. Fragments / of the / natural history / of / Pennsylvania. / [Rule] / By Benjamin Smith Barton, M. D. / Correspondent-Member of the Society of the Antiquaries of Scotland; Member / [Etc., 9 lines] / [Rule] / Part First. / [Rule] /

<sup>1</sup> Zimmer's count of plates is 30; 31 are present in the Ellis copy.

<sup>2</sup> Zimmer calls for 5; 6 are present in the Ellis copy.

[*Quots.*, 2 lines] / Philadelphia: / Printed, for the author, by Way & Groff, / No. 48, North Third-Street. / 1799.

Folio (35.9 × 25.4 cm, untrimmed). Pp. [i-v] vi-xviii, 1-24.

*Sigs.*—[a]<sup>2</sup> b-d<sup>2</sup> e<sup>2</sup> (-e2, presumably blank), A-F<sup>2</sup>; 21 leaves.

*Contents*—Title, p. i; copyright notice, p. ii; ded., p. iii; blank, p. iv; introd., pp. v-xviii; text, pp. 1-24. The introduction includes technical and philosophical comment on natural history, mainly ornithology. The text proper is in four sections, the first two being tables relating the passage of migrant birds at Philadelphia to seasonal stages of vegetation, starting with March 1 and ending with February 28. Section I, pp. 1-7, deals with "The Spring and Summer Birds of Passage"; Section II, pp. 7-10, treats "Autumnal and Winter Birds of Passage"; Section III, pp. 11-14, is a briefly annotated list "of the Resident Birds of Pennsylvania"; on pp. 15-24 is "I. Appendix: Containing Observations On the greater number of the Birds which are mentioned in the preceding Tables."; "Postscript," at the end of p. 24, expresses Barton's intention to publish two other parts of this natural history.

One of the rarest of American ornithological works, and the first entirely ornithological paper on American birds written by an American. Although some of the innovations it contained, among them its emphasis on the relationship between bird migration and other phenological events, were later to be regarded as noteworthy, it was coolly received by some of Barton's contemporaries including the writer of certain annotations in one of the copies in the Ellis Collection. Coues later wrote: "This tract, a mere 'fragment,' as the author says, is one of the most notable special treatises on North American ornithology of the last century. The author had every qualification of a great naturalist except success, his actual achievements being far from commensurate with his eminent ability and erudition. . . . As it is, his work remains about on a par with that of Bartram in present significance. . . ."

There are two states of this important work in the Ellis Collection. One, with the uncorrected reading "uniformly" in the last line of section XXXVI on page xvi, is from the library of Mrs. Carl Tucker and bears the bookplate of John Lewis Childs of Floral Park, N.Y., as well as the name of R. E. Griffith. Tipped in is a letter from Charles W. Richmond (dated National Museum, Washington, D.C. May 14, 1923) stating that an early state of p. 11 exists with the last species mentioned being *Certhia familiaris* without description, while the later state of the page has *Certhia fusca* with extensive description as its last entry. The Ellis copies have *Certhia fusca*. One Ellis copy—the annotated copy mentioned above—does have the later reading "always" on page xvi, and has the original paper wrapper bound in (Fragments / of the / Natural History / of / Pennsylvania. / [Rule] By Benjamin Smith Barton, M. D. / [Rule] / Part First. / [Rule] / Philadelphia: / Printed, for the author, by Way & Groff, / and sold, in London, by Mess G. J. & J. Robinson, booksellers, / Pater-Noster Row. / [Rule] / Price Five Shillings.)

Allen, 534-536 (hist., biogr.); Church, 1284; Coues, 1:592-594 (extensive comment, descr., crit., and collation of nomenclature); Sabin, no. 3809.

Pennsylvania. / [Vign.] / Edited by / Osbert Salvin, M.A., F.R.S., &c. / London: / MDCCCLXXXIII.

4to (26.5 × 19.5 cm). Pp. [6], [i-v]vi-xviii, 1-24.

*Contents*—Willughby Society series title, 1 leaf; pref., 1 leaf (signed by Salvin, January, 1883); transcription of cover-title of the original edit. (1799) of the work, 1 leaf; transcription of original title of same (for which see no. 179), p. i; text, a line for line resetting from the original, with pagination unchanged and original signatures preserved.

The Willughby Society's edition of Barton's interesting work (No. 179).

Wood, 224; Zimmer, 42-43.

181. 1807. A / discourse / on / some of the principal desiderata / in / natural history, / and on / the best means of promoting the study / of this / science, / in the United-States. / [Rule] / Read before the Philadelphia Linnean Society, / on the tenth of June, 1807. / [Rule] / By Benjamin Smith Barton, M.D., / President of the Society; one of the Vice-Presidents of the / American Philosophical Society; and Professor of / Materia Medica, Natural History and Botany, / in the University of Pennsylvania. / Philadelphia: / printed by Denham & Town, / No. 278, South Second-street. / 1807.

8vo (25.0 × 16.0 cm, untrimmed). Pp. [6] 9-90.

*Sigs.*—(1)<sup>4</sup> (-(1)1), (2)-(10)<sup>4</sup>, (11)<sup>4</sup> (+1=(1)1<sup>?</sup>); 44 leaves.

*Contents*—Title, p. [1] (copyright on p. [2], dated August 18, 1807); pref., pp. 3-5 (dated August 12, 1807); p. [6] blank; text, pp. 9-75, headed "An oration, &c." being a running dissertation on the state of many branches of scientific knowledge (questions revealing the problems deemed to be then confronting ornithology are posed on pp. 20-22 and elsewhere); blank, p. 76; "Appendix, containing notes & illustrations," pp. 77-90.

In original marbled paper wrappers. Bookplate: John Jay Paul. The Braislin copy.

BARTON, FRANK TOWNEND (1869- )

182. 1912. Pheasants / In Covert and Aviary / By / Frank Townend Barton, M.R.C.V.S. / Author of / "Terriers: Their Points and Management," [Etc., 2 lines] / With four coloured plates from life by H. Grönvold, / and thirty-seven other illustrations / [Orn.] / London / John Long, Limited / Norris Street, Haymarket / MCMXII. [Title in red and black.]

4to in eights (24.1 × 18.0 cm). Pp. 1-287 [288]; front., 27 plates<sup>1</sup> (front. and 3 plates ornith., col., by Grönvold; remaining plates photogr.); 9 text-figs. (line-cuts).

*Contents*—Half-title (advt. on v.); title; ded.; conts.; list of illustrs.; pref. (all

<sup>1</sup> Neither the statement on title (total, 41 illustrs.) nor that in Zimmer's collation (total, 34) agrees with the present copy (front., 27 plates, 9 figs. = 37).

prelims. included in pp. 1-11); text, pp. 13-284, chapters I-XL, being a thorough practical manual of pheasant culture; index, pp. 285-[288].

Title and contents self-explanatory.

Wood, 224; Zimmer. 43.

BARTRAM, JOHN (1699-1777)

183. 1751. *Observations / on the / Inhabitants, Climate, Soil, Rivers, Productions, / Animals, and other matters worthy of Notice. / Made by / Mr. John Bartram, / In his Travels from / Pensilvania / to / Onondago, Oswego and the Lake Ontario, / In Canada. / To which is annex'd a curious Account of the / Cataracts at Niagara. / By Mr. Peter Kalm, / A Swedish Gentleman who travelled there. / [Orn.] / London: / Printed for J. Whiston and B. White, in / Fleet-Street, 1751. / (Price One Shilling and Six-pence.)*

8vo (19.5 × 11.6 cm). Pp. [2] i-vii 9-94; engr. fold. front.

*Sigs.*—π1(=N4?) B-M<sup>4</sup> N<sup>4</sup>(-N4); 48 leaves.

*Contents*—Title, p. [1], publisher's advt., p. [2]; pref., pp. i-viii; text, pp. 9-79, a rambling account of travels to the places listed in title; letter (by Pehr Kalm, dated at Albany, Sept. 2 1750) describing Niagara Falls,<sup>1</sup> pp. 79-94. Reference to birds appears occasionally in the text, and Kalm's letter contains an account of the destruction of waterfowl swept over Niagara Falls, an event that has periodically recurred in modern times.

An historically important journal generally omitted from ornithological bibliographies.

Church, 977; Cox, II:113-114; Sabin, 3868.

BARTRAM, WILLIAM (1739-1823)

184. 1791. *Travels / through / North & South Carolina, / Georgia, / East & West Florida, / the Cherokee country, the extensive / territories of the Muscogulges, / or Creek Confederacy, and the / country of the Chactaws, / containing / an account of the soil and natural / productions of those regions, toge- / ther with observations on the / manners of the Indians. / Embellished with copper-plates. / By William Bartram. / Philadelphia: / Printed by James & Johnson. / M,DCC,XCI.*

8vo (20.1 × 12.1 cm). Pp. [2] i-xxxiv [2], 1-522; engr. front. (portr. of Mico Chlucco, "the long warrior or king of the Siminoles"), 7 engr. plates (plate IV numb.; plate [VI] fold.), fold. map.

*Sigs.*—π1(=3X2?) [a]<sup>4</sup> b-d<sup>4</sup> e<sup>2</sup>, B-Z<sup>4</sup>, Aa-Zz<sup>4</sup>, 3A-3U<sup>4</sup> 3X<sup>2</sup>(-3X2); 280 leaves

*Contents*—Title, p. [1]; copyright notice, p. [2]; ded., [a]1 (v. blank); cont. [a]2<sup>r</sup>-b2<sup>r</sup> (pp. iii-xi); introd., b3<sup>r</sup>-e1<sup>v</sup> (pp. xiii-xxxiv); e2 blank; text, B-3X1<sup>v</sup> (p. 1-522), in parts I-IV, containing, respectively, chapters I-V, I-XI, I-X, and I-1 describing in detail and with many anecdotes the author's travels and the vari

<sup>1</sup>A note by the editor (pref., p. vi) states that this is the first English-language description of Falls.

aspects of the country traversed, with extended discussion of natural history. Pp. 284-302 (part II, chapter X) are devoted entirely to ornithology, with a list of species occupying pp. 289-296. A number of birds are described as new, but Bartramian names have been ruled untenable.

The first edition of this classic work, which is noted for its considerable literary merit as well as its place in the history of American natural science. Bartram's is among the earliest extensive considerations of American ornithology, and the earliest of such by an American author. Within 10 years of its first appearance, Bartram's *Travels* was published in at least six editions in three languages.

Bookplate of the Geological Library of Anthony Wayne Vogdes.

Allen, 535-543 (hist., biogr.); Coues, 1:588-589 (detailed discussion of ornith. matter); Cox, II:164-165 (2nd and later edits.); Sabin, no. 3870; Wood, 224.

185. 1792. *Travels / through / North and South Carolina, / Georgia, / East and West Florida, / the Cherokee country, / the extensive territories of the Muscogulges / or Creek Confederacy, / and the country of the Chactaws. / Containing / an account of the soil and natural produc- / tions of those regions; / together with / observations on the manners of the Indians. / Embellished with copper-plates. / By William Bartram. / Philadelphia: printed by James and Johnson. 1791. / London: / reprinted for J. Johnson, in St. Paul's Church-yard. / 1792.*

8vo (21.4 × 13.1 cm). Pp. i-xxiv, 1-520 [12], engr. front., engr. plates 1-7.

*Sigs.*—a<sup>4</sup> b<sup>8</sup>, B-Z<sup>8</sup>, Aa-Ll<sup>8</sup> Mm<sup>2</sup>; 278 leaves.

*Contents*—Title, a1<sup>r</sup>; blank, a1<sup>v</sup>; conts., pp. iii-vii; introd., pp. viii-xxiv; text (arranged as in first ed., No. 184), pp. 1-520; index, pp. [1-11]; instructions to binder, p. [12]. Text essentially the same as that of the first edit., but reset. The ornithology of the present edit. occupies pp. 280-300. The index appears for the first time.

The second edition. Coues, who had not seen it, was misinformed that it was identical with the Dublin edition (1793; No. 186), which is from a different setting of type.

Coues, 1:590.

186. 1793. *Travels through North and South Carolina [etc.].*

[*As No. 185, 16 lines.*] / Dublin: / For J. Moore, W. Jones, R. McAllister, and J. Rice. / 1793.

8vo (20.8 × 12.5 cm).

Another edition. For discussion of the work see first edition (No. 184). Col-lation and contents of the present edition are as in the second edition (No. 185, *q.v.*), with minor exceptions: the first gathering is unsigned and the type has been reset with slight differences in line-endings, etc. Ornithology, pp. 280-300.

87. 1940. *The Travels of / William Bartram / Edited by Mark Van Doren / with an introduction by / John Livingston Lowes / Author of "The Road to Xanadu" /*

New York. 1940 / Facsimile Library / Exclusive Distributors: Barnes & Noble, Inc.

(19.0 × 13.0 cm). Pp. [1-4] 5-414.

*Contents*—Advt.; title; introd., pp. 5-6, discussing literary influence and prominence of author; conts.; author's introd., pp. 15-27; text, pp. 29-408, arranged as in the first edit., 1791 (No. 184); index, pp. 409-414. Main ornithological material on pp. 233-249.

An excellent new edition.

188. 1793. *Magazin / von / merkwürdigen neuen / Reisebeschreibungen, / aus fremden Sprachen übersetzt / und mit / erläuternden Anmerkungen begleitet. / Mit Kupfern. / Zehnter Band. / Berlin, 1793. / In der Vossischen Buchhandlung.*

> William Bartram's / *Reisen / durch / Nord- und Sud-Karolina, / Georgien, Ost- und West-Florida, / das Gebiet / der Tscherokee, Krihks und Tschaktahs, / nebst umständlichen Nachrichten / von den Einwohnern, dem Boden und den Naturprodukten / dieser wenig bekannten grossen Länder. / Aus dem Englischen. / Mit erläuternden Anmerkungen / von / E. A. W. Zimmermann, / Hofrath und Professor in Braunschweig. / Mit Kupfern. / Berlin, / in der Vossischen Buchhandlung. / 1793.*

8vo (20.3 × 12.4 cm). Pp. [2], I-XXVI, 1-501 (pp. 497-501 misnumb. 465-469); engr. plates I-VIII (front. of other edits. is pl. VI; pl. VII fold.).

*Sigs.*— $\pi 1$ ,  $a^8 b^4 (b^4 + 1)$ , A-Hh<sup>8</sup> li<sup>2</sup>(li<sup>2</sup> + 1); 265 leaves.

*Contents*—Series-title,  $\pi 1^r$ ; title, p. I; "Vorrede des Uebersetzers," pp. III-X; Einleitung, pp. XI-XXVI; text, pp. 1-494, organized as in English edits. (birds are treated on pp. 274-301); Inhalt, pp. 495-501 (partly misnumb. as shown above).

A German translation of Bartram's well-known *Travels* (see No. 184). In this edition English names are given in the list of birds, together with German and Latin.

Coues, 1:590 (descr.; misnumb. pp. not noted); Wood, 224 (collation in error).

189. 1799. *Voyage / dans les parties sud / de l'Amérique / Septentrionale; / Savoir: les Carolines septentrionale et méridio- / nale, la Georgie, les Florides orientale et / occidentale, le pays des Cherokées, le vaste / territoire des Muscogulges ou de la confédé- / ration Creek, et le pays des Chactaws; / Contenant des détails sur le sol et les productions natu- / relles de ces contrées, et des observations sur les / mœurs des Sauvages qui les habitent. / Par Williams [sic] Bartram. / Imprimé à Philadelphie, en 1791, et à Londres, / en 1792, et trad. de l'angl. par P. V. Benoist. / Tome premier [second]. A Paris, /*

Chez { Carteret et Brosson, libraires, rue Pierre- /  
Sarrasin, nos 13 et 7. /  
Dugour et Durand, rue et maison Serpente. /

An VII.

2 vols., 8vo (20.1 × 12.0 cm).

Vol. I: Pp. [4] 1-457 [458-460]; engr. front., engr. fold. plates 1-2.

Vol. II: Pp. [4] 1-436 [437-440]; engr. fold. plate 3, fold. map.

*Sigs.*—Vol. I:π<sup>2</sup>, A-Ee<sup>8</sup> Ff<sup>6</sup>; 232 leaves. Vol. II:π<sup>2</sup>, A-Dd<sup>8</sup> Ee<sup>4</sup>; 222 leaves.

*Contents*—Each volume contains half-title and title, pp. [1] and [3]. Vol. I contains "Introduction de l'Auteur," pp. 1-24; all of part I of the text and chapters I-IX of part II of same, pp. 25-448; conts., pp. 449-457; and errata, p. [459]. Vol. II contains the remainder of the text, pp. 1-424; conts., pp. 425-436; and errata, p. [437], with 3 blank pages at the end. The chief ornithological matter is on pp. 31-66 of vol. II.

A French edition of Bartram's travels.

Coues, 1:594; Sabin, 3871.

BASKETT, JAMES NEWTON (1849- )

190. 1902. *Appleton's home reading books / The story of the birds / By / James Newton Baskett, M.A. / Associate Member of the American Ornithologists' Union / [Vign.] / New York / D. Appleton and Company / 1902.*

8vo (18.0 × 11.9 cm). Pp. i-xxix [xxx], 1-263; fotogr. front., 19 fotogr. plates (of habitat groups, etc.), 63 text-figs. (photos; line-cuts).

*Contents*—Publisher's series-title; title; ded.; publisher's note; editorial introd.; pref. (dated September 1896); "analysis" of the text with "study hints"; conts.; list of full-page illustrs.; text, pp. 1-250, chapters I-XXXII; index, pp. 251-263. The popularly written text provided the beginning bird student of 1902 with an elementary treatment of the evolution, structure, and habits of birds as understood at the time of writing.

The work was first published in 1897. The author was mildly criticized by the reviewer cited below for too great a "predilection for hypothesis."

Wood, 224. Reviewed: *Auk*, 1898:71-72 (J. A. Allen).

BATES, GEORGE LATIMER (1863-1940)

191. 1930. *Handbook / of the / birds of West Africa / by / George Latimer Bates / Member of the British Ornithologists' Union / Corresponding Fellow of the American Ornithologists' Union / Illustrations by / H. Grönvold / London / John Bale, Sons & Danielsson, Ltd. / 83-91, Great Titchfield Street, W. I / 1930.*

8vo (21.5 × 13.8 cm). Pp. i-xxii [xxiii-xxiv], 1-572; half-tone front., 75 text-figs. (half-tones and line-cuts), fold. map.

*Contents*—Title; pref., pp. iii-ix; "The Physical Features of the Country," pp. xi-xxii; p. [xxiii] contains a list of orders and families of birds; p. [xxiv] blank; text, pp. 1-536, being a list of West African birds giving brief discussions of higher groups, keys, and, for each species descriptions of male and female, measurements, and general description of habits, distribution (very brief), and natural history; list of references, pp. 537-539; index, pp. 540-572.

A useful field guide and condensed reference work on the birds of Africa between the parallels 20° N. and 2° N. Lat., and west of the meridian 14° E. Long. The method, approach, and format of the work suggest F. M. Chapman's popular *Handbook, infra*, on the birds of eastern North America.

Wood, 224. Reviewed: *Ibis*, 1930:327-328; *Auk*, 1930:273-274 (Witmer Stone).

BATES, HENRY WALTER (1825-1892)

192. 1892. *The Naturalist / on / the River Amazons. / A record of adventures, habits of animals, sketches of Brazilian / and Indian life, and aspects of nature under the equator, / during eleven years of travel. / By Henry Walter Bates, F.R.S., / Late Assistant Secretary of the Royal Geographical Society. / With a memoir of the author / by / Edward Clodd. / Reprint of the unabridged edition, / with map and numerous illustrations. / London: / John Murray, Albemarle Street. / 1892.*

8vo (23.2 × 16.0 cm). Pp. i-lxxxix [xc-xcii], 1-395; front. (portr. of author), 1 col. plate (of butterflies), 42 engr. text-figs. (5 ornith.), fold. map.

*Contents*—Half-title; title; prefatory note (by Clodd); pref., pp. vii-x, dated at Leicester, January 1863; conts. pp. xi-xiv; list of illustrs., pp. xv-xvi; memoir, pp. xvii-lxxxix (life of author, by Clodd); sectional half-title, pp. xci-xcii; text, pp. 1-389, in chapters I-XIII; index, pp. 391-395. Birds are mentioned frequently in a text that includes many revealing and original observations on tropical biota and ecology, and on the life of an early explorer-naturalist in a difficult region.

A classic work, noted for its literary qualities. The popularly-written but scholarly text is the outcome of an expedition extending from 1848 to 1859, part of the scientific results of which were published by A. R. Wallace in 1853 as *A narrative of travels on the Amazon and the Rio Negro*. Technical reports by Bates on the collections (said to include 15,000 species) appeared in many scientific journals, but the birds (300 species) seem not to have been completely treated. They were reported upon in part by P. L. Sclater (*Proc. Zool. Soc. London*, 1857:261-268).

The work was first published in 1863, and released again on several occasions (*BMNH*, I:109, refers to a "fifth edition" of 1879), whether as new editions or new impressions I cannot at present say. I have seen mention of at least one abridgment. The present version contains the full text enhanced by an excellent biographical sketch of the author, a friend of Charles Darwin and a prominent scientific figure in his time.

Wood, 225. Reviewed (first edit.): *Ibis*, 1863:462-463.

BATES, RICHARD SYDNEY PATRICK (1897- )

193. 1931. *Bird life in India / By / Captain R. S. P. Bates, M.B.O.U. / With sixty-two black and white plates and one frontispiece / published By / The Bombay Natural History Society / Madras / printed at the Diocesan Press / 1931.*

4to (24.0 × 17.9 cm). Pp. i-vii [viii-x], 1-187; photogr. plates 1-62 (printed both sides), map.

*Contents*—Title; conts.; list of illustrs.; pref.; text, pp. 1-179, chapters I-XI, being

an informal and readable account of the life of an amateur ornithologist in India, containing much of worth on avian life-histories, and other material of interest to the student of Indian ornithology; index, pp. 181-187.

Title and contents self-explanatory.

Reviewed: *Journ. Bombay Nat. Hist. Soc.*, vol. 35, no. 2, p. 437, 1932.

BATTEN, HARRY MORTIMER (1888-1958)

194. 1922(?). **Woodlore for / young sportsmen /** By / H. Mortimer Batten, F.Z.S. / Author of "Habits and characters of British wild animals" [*Etc.*, 2 lines]. / With 55 photographs direct from nature by / W. S. Berridge, F.Z.S. / 25 line drawings by F. A. Simpson / and an introduction by / Richard Clapham / Author of [*Etc.*, 2 lines]. [*Device*] / Heath Cranton Limited / 6 Fleet Lane, London, E.C. 4.

8vo (21.8 × 13.5 cm). Pp. i-viii, viiia, viiib, ix-xiv [xv-xvi], 17-286; front., 54 photogr. plates, 24 text-figs. (line-cuts).

*Contents*—Title; ded.; author's note; introd. (dated January 1922); conts.; list of illustrs.; sectional half-title; text, pp. 17-280, in which considerable space is devoted to popular accounts of game birds, birds of prey, and other conspicuous species. The photographs are very poor and the words "direct from nature" in title appear to apply as often to crippled animals and zoo specimens as to those photographed in the wild; index, pp. 281-286.

Title and contents self-explanatory.

195. 1923. **Inland Birds / Northern Observations by a Sportsman /** By H. Mortimer Batten, F.Z.S. / Author of "Romances of the Wild," [*Etc.*, 2 lines]. / Introduction by / The Right Hon. Sir Herbert Maxwell, Bart., F.R.S. / With 34 illustrations / London: Hutchinson & Co. / Paternoster Row E. C. / 1923.

8vo (21.6 × 14.0 cm). Pp. 1-288; front., 30 photogr. plates (34 photos. in all, printed both sides).

*Contents*—Half-title; title; ded.; conts.; introd. (dated East Lothian, July 1922); sectional half-title; text, pp. 15-288, in chapters I-XVIII, devoted mainly to the more spectacular birds of prey and game birds (of Scotland, chiefly). The credibility of some interesting observations reported is lessened by the author's tendency to anthropomorphism and extreme statements, many of which are undocumented. A few of the photographs are excellent.

A popularly written commentary.

Wood, 225.

AUERLEN, WILLIAM

16. 1886. **The Voyage of the Bonito /** an account of / the Fly River Expedition / to / New Guinea. / By / William Bauerlen, Botanist. / Delivered as a lecture / under the auspices of the Agricultural Society / of Shoalhaven; / and printed at

their request. / Sydney: / Gibbs, Shallard, & Co., printers and publishers, / Hosking Place (off Pitt Street). / 1886.

8vo (21.5 × 13.5 cm). Pp. 1-38.

*Contents*—Title; pref. (signed "The Editor"; dated Shoalhaven, 18th April, 1886); text, containing passing references to birds and other phases of natural history.

Title and contents self-explanatory. A scarce little volume; the present copy has the original paper covers bound in and bears the bookplate of Henry L. White, Scone, N.S.W.

#### BAYNES, ERNEST HAROLD (1868-1925)

197. 1915. *Wild bird guests / how to entertain them / with chapters on the destruction of birds / their economic and aesthetic value / suggestions for dealing with their / enemies, and on the organiza- / tion and management of / bird clubs / By / Ernest Harold Baynes / With a preface by / Theodore Roosevelt / With 50 photogravure illustrations / from photographs / New York / E. P. Dutton & Company / 1915.*

8vo (20.8 × 14.0 cm). Pp. [2] i-xviii [xix-xx], 1-326; front., 33 photogr. plates (50 photos.), 20 diagrams and text-cuts.

*Contents*—Half-title; title; ded.; pref., pp. v-vi (signed Theodore Roosevelt); foreword, pp. vii-xi (dated May 1, 1915); conts. and list of illustrs., pp. xiii-xviii; sectional half-title, pp. xix-xx; text, pp. 1-298, divided into 3 parts (Why birds need protection; Why it is worth while to give birds protection; How we can all help to protect the birds) and chapters I-XII; appendix, pp. 299-315; index, pp. 317-326. Besides the sections on conservation etc., the text gives thorough instructions on practical ways of encouraging birds about the home and was for some years a standard in this field.

Title and contents self-explanatory. The author's influence on conservation was considerable, through this book and by other means.

Wood, 225. Reviewed: *Auk*, 1915:507-509 (Witmer Stone).

#### BECK, HERBERT HUEBENER (1875- )

198. 1924. *A chapter / on the / ornithology / of / Lancaster County, / Pennsylvania / with / supplementary notes on the mammals / By / Herbert H. Beck / Executive Curator of the Franklin / and Marshall College Museum / Reprinted by Permission of the Copyright Holders / The Lewis Historical Publishing Co., Inc., / of New York City, from / "Lancaster County, Pennsylvania—a history," / 1924 / Proof-reading by Witmer Stone, President / of the American Ornithologists' Union / Map by courtesy of the / Steinman Hardware Company.*

(21.8 × 18.5 cm). Pp. 1-39; map.

*Contents*—Title; ded.; map; text, a competently prepared local ornithology with brief description of the area and an annotated check-list of the birds. Pp. 5-33 contain the matter on birds.

This reprint was circulated in two forms (in blue paper covers and blue boards), one of each being in the Ellis Collection. The first is a presentation copy from the author to C. J. Pennock.

BEDDARD, FRANK EVERS (1858-1925)

199. 1898. *The structure and classification of birds* / By / Frank E. Beddard, M.A., F.R.S. / Prosector and Vice-Secretary of the Zoological Society of London / Longmans, Green, and Co. / 39 Paternoster Row, London / New York and Bombay / 1898 / All rights reserved.

8vo (21.0 × 13.9 cm). Pp. i-xx, 1-548 [32]; text-figs. 1-252 (line-cuts).

*Contents*—Half-title; title; pref., pp. v-vii; conts.; list of illustrs.; text, the first part (pp. 1-158) being a detailed consideration of the general structure and anatomy of birds and the second (pp. 159-534) a consideration of the classification of birds and a systematic treatment of the groups with description of the anatomical characters upon which their classification is largely based; index, pp. 535-548; advt., pp. 1-32. The literature of the subject is frequently cited in text, but much of the material is based on original studies by the author.

An indispensable reference and still the most thorough of its kind in the English language.

Zimmer, 48-49. Reviewed: *Ibis*, 1899:133-134.

BEEBE, CHARLES WILLIAM (1877-1962)

200. 1905. *Two bird-lovers in Mexico* / By / C. William Beebe / Curator of Ornithology of the New York Zoological Park [*Etc.*, 3 lines] / Illustrated with photographs / from life taken by the author / [*Vign.*] / Boston and New York / Houghton, Mifflin and Company / The Riverside Press, Cambridge / 1905.

(20.0 × 13.5 cm). Pp. i-xiii [xiv], 1-407 [408]; front., 105 photogr. text-figs (38 ornith.).

*Contents*—Half-title; title; ded.; pref.; conts.; list of illustrs.; text, pp. 1-375, chapters I-XV (chapter XV by Mary Blair Beebe), being a well and popularly written account of a trip to Veracruz, Jalisco, and Colima in the winter of 1903-04; appendix, pp. 379-400, giving briefly annotated lists of birds and mammals observed; index, pp. 403-[408].

Title and contents self-explanatory. A readable and informative work.

Wood, 227; Zimmer, 49. Reviewed: *Auk*, 1906:115 (J. A. Allen).

201. 1906. American Nature Series / Group II. *The Functions of Nature* / *The bird / its form and function* / By / C. William Beebe / Curator of Ornithology of the New York Zoological Park [*Etc.*, 4 lines] / With over three hundred and seventy illustrations / chiefly photographed from life / by the author / New York / Henry Holt and Company / 1906.

(21.5 × 15.8 cm). Pp. i-xi [xii], 1-496, [4]; chromolith. front. (by Walter King

Stone), text-figs. 1-371 (half-tones of photos. and drawings, and line-cuts; 33 full-page).

*Contents*—Half-title; title; ded.; pref., pp. vii-x (dated May 1906); conts.; text; pp. 1-482, in chapters I-XVII, being "An untechnical study of the bird in the abstract," or a consideration of "the morphological and physiological characteristics of birds in general with reference to their life and adaptations" (Zimmer); appendix, pp. 483-484, being a brief list of useful books; index, pp. 483-496; 1 blank leaf; advt., 1 leaf.

A respectable popular text in its time. The English edition of the following year is identical except for imprint: Westminster / Archibald Constable & Co., Ltd. / 1907.

Wood, 228; Zimmer, 49. Reviewed: *Auk*, 1907:112-113 (J. A. Allen).

202. 1918. *Jungle peace* / By / William Beebe / Curator of Birds, New York Zoological Park, and / Director of Tropical Research Station / Illustrated from photographs / [*Orn.*] / New York / Henry Holt and Company / 1918.

(19.1 × 13.0 cm). Pp. [10] 1-297 [298], [8]; front., 15 photogr. plates

*Contents*—Title; ded.; note ("With three exceptions these chapters have appeared in . . . The Atlantic Monthly."); conts.; list of illustrs.; sectional half-title, p. 1; text, pp. 3-294, in chapters I-XI, being philosophical, popularly-written considerations of life and science in the tropics of British Guiana; index, pp. 295-297, advt., 8 pages. Birds are mentioned throughout the text, chapters V and VI being concerned with the hoatzin (*Opisthocomus*). Most of this material is condensed from Beebe, Hartley, and Howe's more extended, scientific report *Tropical wild life in British Guiana*, 1917 (No. 209).

A collection of essays that have met with wide popularity and literary approval. The present untrimmed copy is of the first edition, which is said to be rare.

Wood, 228.

203. 1918-22. *A monograph of the / pheasants* / By / William Beebe / Curator of Birds of the New York Zoological Park [*Etc.*, 6 lines]. / In four volumes / Volume I [-IV] / Published under the auspices of the / New York Zoological Society by / Witherby & Co. [H. F. & G. Witherby (*Vols. II-IV.*)] / 326 High Holborn, London, England / 1918 [1921; 1922; 1922].

4 vols., 4to (40.3 × 30.0 cm).

Vol. I: pp. i-xlix [1], 1-198; col. plates I (front.), II-XIV, XVI-XX photogr. plates 1-15, 1a, col. maps I-V.

Vol. II: pp. i-xv [xvi], 1-269; col. plates XXI (front.), XXII-XLIV, photogr. plates 16-39, col. maps VI-X.

Vol. III: pp. i-xvi, 1-204; col. plates XLV (front.), XLVI-LXVIII, photogr. plate 40-60, col. maps XI-XIV.

Vol. IV: pp. i-xv [xvi], 1-242; col. plates LXIX (front.), LXX-XC, XV, photogr. plates 61-87, col. maps XV-XX.

*Contents*—All vols. contain half-title, title, conts., list of illustrs., and descriptive text. Vol. I contains also the ded., pref. (pp. vii-viii) by Henry Fairfield Osborn, and (pp. xix-xlix) a brief introductory survey of the pheasants and their biology. Vol. IV contains index to the entire work, pp. 219-242. The text discusses the genera, followed by very thorough accounts of their species and subspecies, with lists of vernaculars, brief descriptions and statements of range, and extended information under such headings as The bird in its haunts, General distribution, General account, Captivity, Relation to man, Detailed description, Early history, Synonymy, and many others. The excellent colored plates, reproduced variously by photolithography and collotype, are by L. A. Fuertes, H. Grönvold, Henry Jones, C. Knight, G. E. Lodge, Edwin Megargee, and Archibald Thorburn. The superb photogravures illustrating habitats and the like are mainly from photographs by the author.

Perhaps the greatest ornithological monograph of the present century, notable not only for its beauty and the wealth of information it contains, but also for the unusual grace of its prose. Much of the information is first-hand, the author having made extended expeditions to familiarize himself with the species in their native haunts. An abridged version of the work was published in 1926 (No. 204) and 1931 (No. 205) under title of *Pheasants, their lives and homes*.

Anker, 31; Nissen, 84; Wood, 228; Zimmer, 49-50. Reviewed: *Auk*, 1919:119-125 (Witmer Stone), *Ibis*, 1918:726-728 (vol. I); *Auk*, 1921:470-473 (W.S.), *Ibis*, 1921:544-546 (vol. II); *Auk*, 1922:433-435 (W.S.), *Ibis*, 1922:355-357 (vol. III); *Auk*, 1923:344-346 (W.S.), *Ibis*, 1923:336-337 (vol. IV).

204. 1926. *Pheasants / their lives and homes / By / William Beebe / Honorary Curator of Birds of the New York Zoological / Park [Etc., 8 lines] / [Orn.] / In two volumes / Volume I [II] / Published under the auspices of the / New York Zoological Society / by / Doubleday, Page & Company / Garden City New York / 1926. [Title in red and black]*

2 vols., 8vo (26.1 × 19.1 cm, untrimmed).

Vol. I: pp. i-xxviii [2], 1-257; plates I (col. front.), II-XXXIV (8 photos.; 25 drawings and paintings, 11 half-tone, 14 col.), map.

Vol. II: pp. i-xv [3], 1-309; Plates XXXV (col. front.), XXXVI-LXIV (8 photos.; 21 drawings and paintings, 5 half-tone, 16 col.).

*Contents*—Each vol. contains half-title, title, conts., and list of illustrations. Vol. I contains ded., pref., and introd., pp. xxv-xxviii. Vol. II contains appendix A, pp. 289-297 (characters and distribution of the 23 forms of *Phasianus colchicus*), appendix B, pp. 298-301 (important additions to systematic knowledge of pheasants from 1922 to 1926), and index, pp. 305-309. Pp. 1-35 of the text of vol. I are equivalent to the introduction of the author's *A monograph of the pheasants*, 1918-1922 (No. 203), and the rest of the text is essentially that of the same work, including "all but the technical descriptions of the birds, and [is], in effect, a summary of their known natural history. Much of it has been rewritten and brought up to date by the inclusion of the most recent discoveries, especially those of M. Jean Delacour in Cochin China." The drawings are reduced in size and number from those of the larger work.

A condensed version of the author's *A monograph of the Pheasants* published in 1918-1922 (No. 203). This is the first impression of the abridgment, of which 201 deluxe copies are said to have been issued (none seen). Another impression appeared in 1931 (No. 205).

Wood, 228. Reviewed: *Auk*, 1927:267 (Witmer Stone).

205. 1931. **Pheasants, their lives and homes.**

[*As No. 204, 19 lines*] / Doubleday, Doran & Company, Inc. / Garden City, New York / 1931.

Another impression, with collation and contents identical to those of Beebe's *Pheasants, their lives and homes*, 1926 (No. 204).

206. 1926. **The / Arcturus adventure / An Account of the New York Zoological Society's / First Oceanographic Expedition / By / William Beebe / Director of the Department of Tropical Research / With 77 illustrations from colored plates, / photographs and maps / G. P. Putman's Sons / New York London / 1926. [Title in red and black.]**

(28.2 × 19.5 cm, untrimmed). Pp. [2] i-xix [xx], 1-439; col. plates I-VIII (plate VIII is front.), figs. 1-69 (half-tones; photos. and drawings).

*Contents*—Statement of limitation of edition; title; ded.; pref.; conts.; list of illustrs.; text, pp. 1-425, in chapters I-XVI; appendix A, pp. 427-430 (notes on the fauna of Osborn Island, Galapagos, including reference to birds); appendix B, pp. 431-436 (identification of animals mentioned in text); index, pp. 437-439. Frequent, sometimes extended, references to birds occur throughout the text. Chapter IV (pp. 98-116) is devoted to an interesting account of the Galapagos albatrosses (*Diomedea irrorata* Salvin).

This interesting popular work (which also contains some information of scientific value) went through a number of impressions. This copy is No. 6 of the "Author's Autograph Edition" (fifty copies printed on Mirecourt French handmade paper, numbered and autographed by the author). The plates and figures are specially mounted with their legends printed on protective tissues, and the title is printed on papier-velin.

207. 1928. **The Arcturus adventure.** See No. 206. [*Idem, 9 lines*] / Published under the Auspices of the Zoological Society / G. P. Putnam's Sons / New York and London / The Knickerbocker Press.

A copy from the eighth impression of the first edition. The chief differences from the copy described as No. 206 are in the paper size (23.5 × 16.0 cm) and quality, in the setting of the title-page, and in the treatment of the illustrations (printed directly on the leaves rather than printed separately and then mounted).

208. 1928. **Beneath tropic seas / A record of diving among the / coral reefs of Haiti / By / William Beebe, Sc. D. / Director of the Department of Tropical Research / of the New York Zoological Society / [Vign.] / With sixty illustrations / G. P. Putnam's Sons / New York—London / The Knickerbocker Press.**

(22.0 × 15.2 cm). Pp. [2], i-xiii[xiv], 1-234; col. front., 59 illustrs. (photos. and drawings in half-tone), map.

*Contents*—Advt.; title; ded.; pref.; conts.; list of illustrs.; text, chapters I-XIII; appendices A-F (appendix D, pp. 216-224, signed W. B., is a "List of Haitian birds observed," Jan. 2 - May 18, 1927); index, pp. 231-234. Frequent references to birds occur in the text. Chapter XII (pp. 165-183) is given to discussion of humming-birds, and chapter XIII, pp. 184-197, entitled "The new study of birds," is an essay on the philosophy of ornithological investigation.

Title and contents self-explanatory. A semi-popular text in the author's usual pleasing literary style.

BEEBE, CHARLES WILLIAM; G. INNESS HARTLEY; and PAUL G. HOWES

209. 1917. **Tropical wild life / in British Guiana / Zoological Contributions / From The Tropical Research Station / Of The New York Zoological Society / By / William Beebe / Directing Curator / G. Inness Hartley and Paul G. Howes / Research Associate Research Assistant [*respectively*] / With an introduction by / Colonel Theodore Roosevelt / Volume I. / Photographs and Other Illustrations / by the Authors / [*Seal*] / Published by the New York Zoological Society / 111 Broadway, New York City / January, 1917.**

(23.6 × 16.2 cm). Pp. [i-ii] iii-xx [xxi-xxii] 23-504; front. (p. iv), figs., mainly in text, numb. 1-143 (139 photos., line-cuts, etc., many full-page; 4 col. plates).

*Contents*—1 blank leaf; half-title, p. iii; title; ded.; quot.; introd., pp. ix-xi (by Roosevelt; dated Sagamore Hill, Dec. 10, 1916); pref., pp. xiii-xiv (dated in British Guiana, Aug. 10, 1916; signed William Beebe); conts.; list of illustrs.; text, chapters I-XXXV, divided into 4 parts. Part I is by Beebe and is largely devoted to birds; Part II, by Hartley, is mostly concerned with laboratory studies of birds; Part III, by Howes, contains little ornithology; chapter XXXIV of Part IV, entitled "Notes from the Hinterland of Guiana," has pp. 472-480 devoted to birds (by Walter G. White). General index, pp. 501-504. Purely ornithological chapters are as follows: in Part I, chapters VII ("Bird life of Bartica District"), VIII ("A list of birds of the Bartica District"), XI ("Further notes of the life history of hoatzins"), XII ("The homes of toucans"), XIII ("Ornithological discoveries"—by Beebe and Hartley), XIV ("Young Grey-backed Trumpeters"), XV ("The ways of tinamou"); and in Part II, chapters XVIII ("Notes on the development of the jacana"), XIX ("Notes on the development of the Smooth-billed Ani (*Crotophaga ani*)"), XX ("Notes on a few embryos"), XXI ("Nesting habits of the Grey-breasted Martin *Progne chalybea* (Gmel.)"), and XXII ("Preliminary notes on the development of the wing"). Fig. 77 is colored plate of young Grey-backed Trumpeters, from an excellent study by Persis Kirmse.

A heterogeneous work containing considerable primary ornithological source material.

Wood, 228. Reviewed: *Auk*, 1918:91-93 (Witmer Stone).

BEEBE, MARY BLAIR; *and* CHARLES WILLIAM BEEBE

210. 1910. *Our search for a wilderness* / An account of two ornithological expeditions / to Venezuela and to British Guiana / By / Mary Blair Beebe / and / C. William Beebe / Curator of Ornithology in the New York Zoological Park [*Etc.*, 5 lines]. / Illustrated with photographs from life / taken by the authors / [*Orn.*] / New York / Henry Holt and Company / 1910.

(21.8 × 14.4 cm). Pp. i-xix [xx], 1-408, 1-3 [4]; fotogr. front. (p. iv), text-figs. 1-160 (photos., line-cuts; 57 ornith.).

*Contents*—Advt.; title; ded.; conts.; list of illustrs.; text, pp. 1-387, divided into 2 parts (Part I, chapters I-III, deals with Venezuela; Part II, chapters IV-XI, with British Guiana), describing various features of the wild life encountered on expeditions made in 1908 and 1909, with frequent reference to birds; appendices A-C, pp. 389-398, supply scientific and vernacular names and classification of birds mentioned in text; index, pp. 399-408; advt., 4 pp.

An interesting and very well written account containing much information new at the time of writing. The more technical ornithological results of the trips here described were published elsewhere by William Beebe (*Zoologica*, Dec., 1909:45-66, 67-114).

Wood, 228; Zimmer, 50. Reviewed: *Auk*, 1910:353-354 (J. A. Allen).

## BEECHER, WILLIAM JOHN (1914- )

211. 1942. *Nesting Birds* / and the vegetation substrate / [*Vign.*] / William J. Beecher / Chicago Ornithological Society / Chicago 1942.

8vo (22.9 × 15.4 cm). Pp. [10], 1-69; fotogr. front., text-figs. 1-10 (line-cuts, graphs, etc.).

*Contents*—Half-title; title; conts.; list of illustrs.; foreword; text, pp. 1-69, chapters 1-8, being a thorough study of the ecology of nesting birds in an area near Chicago.

A frequently cited contribution to the literature of avian ecology. Present copy (no. 15 of 1000 printed) inscribed by the author to H. B. Conover.

Reviewed: *Auk*, 1942:591 (J. J. Hickey).

## BEECHEY, FREDERICK WILLIAM (1796-1856)

212. 1831. *Narrative of a voyage to the Pacific and Beering's Strait*, / to cooperate with / the polar expeditions: / performed in / His Majesty's Ship *Blossom*, / under the command of / Captain F. W. Beechey, R.N. / F.R.S., F.R.A.S., and F.R.G.S. / in the years 1825, 26, 27, 28. / Published by authority of the Lords Commissioners of the Admiralty. / In two parts. / Part I [II]. / London: / Henry Colburn and Richard Bentley, / New Burlington Street. / MDCCLXXXI.

2 vols., 4to (28.6 × 22.1 cm).

Vol. I: pp. i-xxi [xxii-xxiv], 1-392; front. (chart), 14 engr. plates, 2 text-figs., 2 maps (1 fold.).

Vol. II: pp. i-vii [viii], 393-742 [743-744]; 9 engr. plates (4 zool., none ornith.).

*Contents*—Vol. I: Half-title, p. i; title, p. iii; "To the King," pp. v-vi; introd., pp. vii-xviii; conts., pp. xix-xxi; errata, p. [xxii]; directions to binder, p. [xxiii]; slip (errata); text, pp. 1-392, chapters I-XIII, covering the voyage from England to the South Pacific via Cape Horn and thence to Hawaii, Alaska, and San Francisco (May 1825-Dec. 1826). Vol. II: half-title, p. i; title, p. iii; conts., pp. v-vii; errata, p. vii; directions to binder, p. [viii]; text, pp. 393-590, chapters XIV-XIX, covering remainder of the voyage—California, Hawaii, China, and return via Cape Horn (Dec. 1826-June 1828); appendix, pp. 591-742 (various technical reports, including one on fossils by William Buckland and one on Mexican bees by E. T. Bennett); advt., pp. [743-744]. Casual notes on birds and other animals observed in the various countries visited are scattered through the text.

Important in the history of exploration and as an item of Americana (according to Sabin "one of the most valuable of modern voyages"), the present report has little zoological significance, the zoological results of the voyage having been published separately under the title *The zoology of Captain Beechey's voyage, 1839* (ornithology by N. A. Vigors; cf. Coues, 1:627-628). An octavo edition was also published in 1831 (No. 213) and there were later editions and translations.

Sabin, 4347-4348; Zimmer, 50.

213. 1831. Narrative of a voyage to the Pacific and Beering's Strait.

[*As No. 212, 10 lines*] / F.R.S. &c. / [*Idem, 1 line*] / Published by authority of the Lords Commissioners of / the Admiralty. / In two volumes. / Vol. I [II]. / [*Idem, 3 lines*] / 1831.

2 vols., 8vo (21.4 × 13.5 cm).

Vol. I: pp. i-xxvi [xxvii-xxviii], 1-472; front. (fold. map), 13 engr. plates, 2 text-figs., 2 maps (1 fold.).

Vol. II: pp. [2] i-iv, 1-330 [2] 331-452; 10 engr. plates (4 zool.).

*Contents*—Vol. I: half-title, p. i; title, p. iii; "To the King," pp. v-vi; introd., pp. vii-xxi; conts., pp. xxiii-xxvi; directions to binder, p. [xxvii]; text, pp. 1-472. Vol. II: half-title, p. [1]; title, p. i; conts., pp. iii-iv; text, pp. 1-330; sectional half-title, p. 330 + 1; appendix, pp. 331-452.

Another edition with text, except for pagination and slight differences of arrangement, essentially the same as that of the 4to edition of the same year (No. 212).

BMNH, I:122; Grinnell, II:7.

214. 1831. Narrative of a voyage to the Pacific and Beering's Strait.

[*As No. 213, 14 lines*] / A new edition. / [*Idem, 6 lines*]

2 vols., 8vo (21.3 × 13.7 cm).

Vol. I: Pp. i-xxii, 1-472; 13 engr. plates, 2 text-figs., 3 maps (2 fold.).

Vol. II: Pp. i-iv, 1-330 [2] 331-452; 10 engr. plates (4 zool.).

*Contents*—Vol. I: title, p. i; "To the King," p. iii-iv; introd., pp. v-xvii; conts., pp. xix-xxii; directions to binder, p. xxii; text, pp. 1-472. Vol. II: title, p. i; conts., pp. iii-iv; text, pp. 1-330; sectional half-title, p. 330 + 1; appendix, pp. 331-452.

Another edition of the same year as Nos. 212 and 213. Apart from the addition of the words "A new edition" to the title-page, the differences consist of the omission of marginal notes and half-titles, and resetting throughout. The resetting of the preliminary matter compresses that matter from 28 to 22 pages, but the resetting of the text is almost entirely line-by-line.

## BEETHAM, BENTLEY

215. 1910. *The home-life / of the / spoonbill / the stork and some herons / photographed and described / by / Bentley Beetham F.Z.S. / With thirty-two mounted plates / London / Witherby & Co. 326 High Holborn W. C. / MCMX.*

8vo (25.9 × 19.1 cm). Pp. i-viii, 1-47; fotogr. plates 1-32 (35 photos. mounted both sides of 16 leaves brown paper).

*Contents*—Half-title; title (note on v.); conts.; list of plates; text, describing observations on the life histories of spoonbills (pp. 1-15), white storks (pp. 17-25), common herons (pp. 27-35), and purple herons (pp. 37-47) made in the course of obtaining the photographs which illustrate the work. The observations were made around 1909, in England and in the Low Countries (exact localities withheld).

Part of "The bird-lover's home-life series," the work was published in format similar to that of MacPherson's *The home-life of a Golden Eagle* and Abbott's *The home-life of the osprey* (No. 3).

Mullens and Swann, 52; Wood, 229; Zimmer, 51. Reviewed: *Ibis*, 1911:380.

216. 1911. *Photography / for / bird-lovers / a practical guide / by / Bentley Beetham, F.Z.S. / Author of / "The home-life of the spoonbill, the stork, and some herons." / With photographic plates / London / Witherby & Co., 326 High Holborn, W.C. / 1911.*

8vo (20.5 × 14.7 cm). Pp. [8], 1-126, [6]; fotogr. front., 14 fotogr. plates.

*Contents*—Half-title, title, conts., and list of illustrs.; text, pp. 1-122, in chapters I-XI, being a thorough manual of bird photography; index, pp. 123-126; advt., 6 pp.

Title and contents self-explanatory. Bookplate: P. Z. Cox.

Wood, 229. Reviewed: *Ibis*, 1911:757.

217. 1927. *Among our / banished birds / by / Bentley Beetham, F.Z.S., F.R.G.S. / ornithologist to the Jan Mayen expedition, 1911, and / member of the 1924 Mour Everest expedition / Author of [*Etc.*, 2 lines]. / London / Edward Arnold & Co. 1927 / All rights reserved.*

8vo (21.0 × 14.0 cm). Pp. i-xi [xii], 1-227 [228], 1-16 front., 15 fotogr. plates.

*Contents*—Half-title; title; pref.; conts.; list of illustrs.; text, pp. 1-227, in chapters I-X, devoted to birds very rare in or extirpated from the British Isles; advt., 1-16

This book contains matter of historical and ornithological interest presented in a clear, non-technical style. The photographs are excellent. Label: P. Z. Cox.

Wood, 229. Reviewed: *Ibis*, 1928: 142.

BELANY, JAMES COCKBURN (*fl.* 1841-1878)

218. 1841. A / *treatise* / upon / *falconry*. / In two parts. / By / James Cockburn Belany. / [*Quots.*, 7 lines] / Berwick-upon Tweed:—printed for the author. / 1841. 8vo (21.6 × 13.8 cm). Pp. i-vii [viii-xii], 1-277 [278], 1-6 front. (wood engr.).

*Contents*—Title, p. i; pref., pp. iii-vii; poem, p. [xi]; sectional half-title, p. [xi] (Part first. / Containing / Observations upon the Nature, Antiquity, and History / of Falconry.); text of part I, pp. 1-116, chapters I-XI; sectional half-title of part II, p. 117 (Part second. / Containing / Notices of the different Hawks used in British Hawk- / ing, the Proper Method of Keeping, Training, and / Flying the Birds, the Apparatus belonging to the Art, / &c.); text of part II, pp. 119-277, chapters I-XVII; printer's imprint, p. [278]; terms used in falconry, pp. 1-6.

Evidently a mediocre work; according to Harting it contains "many serious errors and is much overrated by the booksellers." Interesting notes on the little-known author were given by Mullens and Swann.

Harting, 64;; Mullens and Swann, 53; Wood, 230.

BELCHER, Sir EDWARD (1799-1877)

219. 1848. Narrative / of the / voyage of H.M.S. Samarang, / during the years 1843-46; / employed surveying the islands of the eastern archipelago; / accompanied by a brief / vocabulary of the principal languages. / Published under the Authority of the Lords Commissioners / of the Admiralty. / By / Captain Sir Edward Belcher, R.N., C.B., / F.R.A.S., F.G.S., &c. / Commander of the expedition. / With / notes on the natural history of the islands, / By Arthur Adams, Assistant-Surgeon, R.N. / In two volumes. / Vol. I [II]. / London: / Reeve, Benham, and Reeve, King William Street [.] Strand. / 1848.

2 vols., 8vo (22.7 × 14.5 cm).

Vol. I: pp. [2] i-xxxix [xl], 1-358; lith. front. (tinted), 24 lith. plates (6 tinted), 5 maps (3 fold).

Vol. II: pp. [4], 1-574 [2]; lith. front., 4 lith. plates (2 tinted).

*Contents*—Both vols. contain half-title and title; vol. I contains also a ded., pref., conts. to both vols., index to both vols., and list of illustrs. Vol. I contains chapters I-X (pp. 1-358) and vol. II chapters XI-XV (pp. 1-221) of the main text, describing various far eastern localities visited, including Borneo, the Moluccas, Hong Kong, Singapore, the Philippines, Japan, Mauritius, and other places. Vol. II contains also a natural history section, chapters I-X, pp. 223-532 (subtitled as follows, p. [223]: "Notes / from / a journal of research / into the / natural history / of the / countries visited / during the / voyage of H.M.S. Samarang, / under the / command of Captain Sir E. Belcher, C. B. / By / Arthur Adams, Assist. Surgeon. / Attached to the expedition."), being miscellaneous, popularly

phrased notes on the natural history of the areas visited, including frequent reference to birds. A vocabulary of languages, pp. 533-571, a table giving positions of places determined in the voyage, pp. 572-574, and an appendix, followed by errata, conclude vol. II.

A well-known voyage. The technical zoology of the voyage was separately published in 1848-50 by Adams, J. E. Gray, and others, but the birds were not treated in that detailed report (*cf.* Wood, 179). Bookplate: F. Hobill Cole.

BMNH, I:127.

BELL, JOHN GRAY (1823-1866)

220. 1851. A / descriptive and critical / catalogue of works, / illustrated by / Thomas and John Bewick, / wood engravers, / of Newcastle-upon-Tyne; / with an appendix of their miscellaneous engravings, / brief sketches of their lives, / and / notices of the pupils of Thomas Bewick. / [*Vign.*] / London: / John Gray Bell, Bedford Street, Covent Garden. / MDCCCLI.

4to (35.0 × 27.5 cm). Pp. i-viii, 1-77; engr. front. (portr. of Bewick), 3 engr. plates, 13 vigns., etc. (wood engrs.).

*Contents*—Half-title; title; ded.; pref.; text, pp. 1-77, with catalogue of works by, or illustrated by, the Bewicks, briefly annotated, pp. 13-77.

One of the earliest of a long series of critiques and catalogues of Thomas Bewick's works, of interest to ornithologists chiefly because of its relations and references to Bewick's *History of British birds* (No. 285). For criticism of this and other Bewick catalogues see S. Roscoe's *Thomas Bewick, a bibliography raisonné*, Oxford University Press, 1953.

BELON, PIERRE (1517-1564)

221. 1555. L'histoire / de la nature des / oyseaux, avec leurs / descriptions, & naïfs portraicts / retirez du naturel: / escrite en sept liures, / Par Pierre Belon du Mans. / Au Roy. / [*Device*] / A Paris, / On les vend en la grand salle du Palais, en la boutique de / Gilles Corrozet, pres la chambre des consultations. / 1555. / Avec priuilege du Roy.

Folio (30.7 × 20.5 cm). Pp. [28] 1-80 [81] 82-227 [228-229] 230-274 [275-278] 279-331 [332-333] 334-381 [382-384] (misprinting 149 as 151, 174 as 176, 181 as 161, 213 as 113, 230 as 236, 334 as 336); 161 woodcuts (portrait of Belon, comparative skeletons of man and bird, 158 individual birds).

*Sigs.*—ã<sup>6</sup> ċ<sup>4</sup> ĩ<sup>4</sup>, a-f<sup>6</sup> g<sup>4</sup> h-m<sup>6</sup> n<sup>4</sup> o-t<sup>6</sup> v<sup>4</sup> x-z<sup>6</sup>, A-E<sup>6</sup>, F<sup>4</sup> G-I<sup>6</sup> K-L<sup>4</sup>; 206 leaves. v4<sup>v</sup>, A6, F4<sup>v</sup> blank; L4, probably blank, wanting.

*Contents*—Title, ã1<sup>r</sup>; portrait of Belon (Anno Aet. 36.) with "Au Roy. Sonnet de G. Aubert," ã1<sup>v</sup>; Belon's preface to Henri II, ã2<sup>r-v</sup>; "P. Belon du Mans au Lecteur," ã3<sup>r</sup>-ã4<sup>r</sup>; conts. by chapters, ã4<sup>v</sup>-ã6<sup>v</sup>; alphabetical index of subjects and names of birds, e1<sup>r</sup>-i3<sup>r</sup>; privilege, i3<sup>v</sup>-i4<sup>r</sup>; poems of Nicolas Denisot du Mans to Belon, J. Vezou to the reader, and Desiderius Jacotius Vanderoperanus about Belon, i4<sup>r-v</sup>; text, pp. 1-381, in 7 books: "Le Premier Liure . . . quel doit estre le principal

deuoir de l'homme scauant, & quelle chose est science: avec vn sommaire contenant les principaux articles de ce present oeuvre.", in 33 chapters, pp. 1-80; "La second liure de la nature des oyseaux viuants de rapine . . .", in 39 chapters, pp. 81-148; "Le troisieme liure de la nature des oyseaux viuants le long des riuieres, ayants le pied plat . . .", in 28 chapters; "Le quatriesme liure de la nature des oyseaux de riuere, qui n'ont le pied plat . . .", in 29 chapters, pp. 185-227; blank, p. 228; "Le cinquiesme liure de la nature des oyseaux de campagne, qui font leurs nids sur terre . . .", in 26 chapters, pp. 229-274; blank, pp. 275-276; "Le sixiesme liure de la nature des oyseaux qui habitent indifferemment en tous lieux," in 35 chapters, pp. 277-311; blank, p. 332; "Le septiesme liure de la nature des oysillons, qui hantent les hayes, buschettes, & buissons . . .", in 36 chapters, pp. 333-381; colophon ("Imprime a Paris par Benoist Preuost, demeurant en la rue Fremontel, près le cloz Bruneau, à l'enseigne de l'estoille d'or. 1555."), p.382 .

Belon mentions one of his illustrators, Pierre Goudet (otherwise known as Pierre Gourdelle), in the préface. The majority of the illustrations are signed with a small arrow in the white space near the foot or leg of the bird portrayed. A large number are signed with a white cross in a black lozenge, others (including the portrait of Belon) with a Lorraine cross, and the remainder unsigned.

Belon's book is one of the four major ornithological works of the Renaissance, ranked with William Turner's *Avium praecipuarum . . . historia* (1544), the third book of Conrad Gesner's *Historia animalium* (1555), and Aldrovandus' *Ornithologia* (1599-1603, No. 42 in this catalogue). He is noted for his originality of observation, for certain advances in classification (observable in the titles of Books 2-7 in which some 230 species are recognized), and for his early mention of the homologies of the human and avian skeletons (illustrated on pp. 40-41).

The edition was published both by Corrozet, to whom the Privilege was given, and by Guillaume Cavellat. The Ellis copy is the Corrozet issue, with his name and device on the main title-page and (with a smaller version of the device) on the separate title-pages for Books 2-7.

Allen, 410-412 (biogr.); Anker, 9-10 (crit.); BMNH, I:131; HCL, *French 16th*, 50; Newton, 5-6 (crit.); Nissen, 86; Nordenskiöld, 97-98 (hist., biogr.); Ronsil, 189; Stresemann, 16-18 (hist., crit.); Wood, 230; Zimmer, 52.

#### BELT, THOMAS (1832-1878)

222. 1888. *The / naturalist in Nicaragua. / A Narrative of / a residence at the gold mines of Chontales; / journeys in the savannahs and forests; / With Observations on Animals and Plants in Reference to / the Theory of Evolution of Living Forms. / By Thomas Belt, F.G.S. / Author of / "Mineral Veins," "The Glacial Period in North America," etc. etc. / Second edition, revised and corrected. / [Poetry, 7 lines, by Longfellow] / With Map and Illustrations. / London: / Edward Bumpus, 5 & 6 Holborn Bars, E. C. / 1888. / [The right of translation is reserved.]*

8vo (19.0 × 12.5 cm). Pp. i-xxxii, 1-403; photogr. front, (portr.), 27 engr. text-figs. (3 full-page; 4 ornith.), col. fold. map.

*Contents*—Half-title; title; ded.; pref. to "second edit."; pref. to first edit. (by

Belt; dated October 9, 1873); conts.; list of illustrs.; text, pp. 1-390, in chapters I-XXI; index, pp. 391-403. The text, popularly written, is a valuable and thoughtful consideration of many aspects of tropical American biology and ecology, and contains frequent perceptive observations on birds.

A well-known work of considerable value and literary merit, qualities which brought favorable comment from Charles Darwin, H. W. Bates (who saw it through its original publication), and other eminent naturalists. The work was first published in 1874. Save for a new preface, the present version seems to be similar in collation (*cf.* Wood) to the first; I do not know whether the setting is new.

BMNH, I:131 (1874); Wood, 230 (1874, 1888). Reviewed: *Annals and Mag. Nat. Hist.*, 4th ser., 13:246-249, 1874.

#### BENDIRE, CHARLES EMIL (1836-1897)

223. 1892-96. Smithsonian Institution / United States National Museum. / Special Bulletin No. 1 / Life histories / of / North American birds / with special reference to / their breeding habits and eggs, / with / twelve lithographic plates. / By / Charles Bendire, Captain, U. S. Army (Retired), / Honorary Curator of the Department of Oölogy, U. S. National Museum, / Member of the American Ornithologists' Union. / Washington: / Government Printing Office. / 1892.

Title of second vol. is as follows:

[*Idem*, 2 lines] / Special Bulletin. / Life histories / of / North American birds, / from the parrots to the grackles, / with special reference to / their breeding habits and eggs, / by / Charles Bendire, Captain and Brevet Major, U.S.A. (Retired). / Honorary Curator [*Etc.*, 2 lines]. / With / seven lithographic plates. / Washington: / Government Printing Office. / 1895 .

2 vols. 8vo (33.4 × 24.5 cm, untrimmed).

Vol. I: pp. i-viii, 1-446; lith. col. plates I-XII (of eggs).

Vol. II: pp. i-xi [x], 1-508, [14], 509-518; lith. col. plates I-VIII (of eggs).

*Contents*—Vol. I: title, p. i; advt., p. ii; conts., pp. iii-v; introd., pp. vii-viii; text, pp. 1-414, describing in detail the life histories of North American birds of the orders Galliformes, Columbiformes, Falconiformes, and Strigiformes, as now classified, giving for each both vernacular and scientific names, citation of original description, source of nomenclatural combination used, geographic range, and authoritative remarks on habitat, habits, and, especially, nesting, many of them based on personal observation; explanations of plates (printed one side only, facing plates), pp. 416-438; index, pp. 439-446. Vol. II: title, p. i; advt., p. iii; conts., pp. v-viii; introd., p. ix; text, pp. 1-508, covering life histories of North American birds of several orders, and including the families Psittacidae, Cuculidae, Trogonidae, Alcedinidae, Picidae, Caprimulgidae, Apodidae, Trochilidae, Cotingidae, Tyrannidae, Corvidae, Sturnidae, and Icteridae; explanations of plates (as above), 7 leaves; index, pp. 509-518.

In its time an exemplary and most useful work, no more of which was published. Although largely superseded by more recent and extensive works on the

subject, notably the series by A. C. Bent (Nos. 232-253), the work still contains valuable data not readily obtainable elsewhere. As noted by Zimmer: "The second volume, although not so indicated on the title-page, is Special Bulletin No. 3 of the U. S. National Museum; both volumes were published separately in the Smithsonian Contributions to Knowledge, Vols. 28 and 32, respectively, at the same dates as given above." With other bibliographers, Zimmer seems to have overlooked Allen's indication (*Auk*, 1897:105) that the second volume, although dated 1895, was not published until October 1, 1896 (see also *Zoological Record* for 1896).

Stapled to a binder's leaf of the first volume of the set in hand is a printed form letter signed by Bendire under heading of Smithsonian Institution and dated January 1, 1890 (altered by hand to January 9). This bears a signed addition in Bendire's hand, addressed to H. K. Coale. The form letter is accompanied by a printed questionnaire designed to obtain data of the type used in preparation of the two volumes completed.

Anker, 32-35; Nissen, 89; Wood, 231; Zimmer, 53. Reviewed: *Auk*, 1892:375-376 (J. A. Allen); *Ibis*, 1893:126; *Auk*, 1897:104-106 (J. A. A.); *Ibis*, 1897:268-269. See also Harry Harris, *Condor*, 1927:177-181 (hist., crit., especially the drawings).

#### BENNETT, EDWARD TURNER (1797-1836)

224. 1829. *The / Tower Menagerie: / comprising / the natural history / of the / animals contained in that establishment; / with / Anecdotes of their Characters and History. / Illustrated by / portraits of each, taken from life, by William Harvey; / and engraved on wood by Branston and Wright. / [Vign.] / London: / printed for Robert Jennings, Poultry; / and sold by W. F. Wakeman, Dublin. / MDCCCXXIX.*

8vo (22.2 × 14.0 cm). Pp. i-xviii, 1-241 [242]; 118 woodcut text-figs.

*Contents*—Half-title; title; ded.; conts.; introd., pp. ix-xviii (dated at London, November 1828); text, being popular accounts of a number of the larger and more spectacular animals. Several birds are discussed and figured (pp. 199-230.)

Title and contents self-explanatory.

Mullens and Swann, 56; Wood, 231.

225. (?1830)-1831. *The / gardens and menagerie / of the / Zoological Society / delineated. / Published, with the sanction of the Council, / under the superintendence of the / Secretary and Vice-secretary of the Society. / Vol. I [II]. / Quadrupeds [Birds]. / [Vign.] / Chiswick: / Printed by Charles Whittingham. / Published by Charles Tilt, Fleet Street, London. / MDCCCXXXI.*

2 vols., 8vo (21.5 × 13.4 cm).

Vol. I: pp. i-xii, 1-308; 99 woodcut text-figs. (64 major illustrs., 35 tail-pieces).

Vol. II: pp. i-viii, 1-328; 121 woodcut text-figs. (71 major illustrs., 50 tail-pieces).

*Contents*—Both vols. contain half-title, title, pref. (pref. of vol. I dated at London, June 30, 1830), conts., text (vol. I. mammals, pp. 1-304; vol. II, birds, pp. 1-324), and systematic index. The text consists of semi-technical but simply written

accounts of a large array of specimens from all over the world exhibited in the menagerie. A supposedly new bird, *Crax yarellii*, is described on pp. 227-230 of vol. II.

A guide-book to the collections named in title, well illustrated by William Harvey and evidently once possessed of considerable popularity. It seems to have appeared also under another imprint, also dated 1831, and given by Zimmer (p. 53) as "Published by John Sharpe, Piccadilly, London." There is also evidence that some sets are dated 1830-31 (*cf.* Wood, 231; BMNH, I:135, V:2398). Also at hand is a complete set, in two bound volumes, of india paper proofs of the illustrations to this work.

226. 1835. **The gardens and menagerie of the Zoological Society.**

[*As No. 225, 8 lines*] / Quadrupeds [Birds]. / Vol. I [II]. / [*Vign.*] / London: / printed by Maurice, Clark, and Co., / for the proprietors: / published by Thomas Tegg and Son, Cheapside; / and N. Hailes, Piccadilly. / MDCCCXXXV.

Another edition of No. 225, reset but with no discernible substantive changes in text.

Bookplate: J. Talbot Clifton.

BENNETT, FREDERICK DEBELL

227. 1840. **Narrative / of a / whaling voyage / round the globe, / from the year 1833 to 1836. / Comprising sketches of / Polynesia, California, the Indian Archipelago, / etc. / With an account of / southern whales, the sperm whale fishery, / and / the natural history of the climates visited. / By / Frederick Debell Bennett, Esq. F.R.G.S. / Fellow of the Royal College of Surgeons, London. / In two volumes. / Vol. I [II]. / London: / Richard Bentley, New Burlington Street, / Publisher in Ordinary to Her Majesty. / 1840.**

2 vols., 8vo (22.2 × 14.0 cm).

Vol. I: pp. i-xv [xvi], 1-402 [2]; lith. front., 2 woodcut text-figs., 1 fold. map.

Vol. II: pp. i-vii [viii], 1-395 [2]; lith. front., 15 woodcut text-figs.

*Contents*—Vol. I: title; ded.; pref., pp. v-viii (dated April 14, 1840); conts.; text, pp. 1-402, in chapters I-XII; advt., 1 leaf. Vol. II: half-title; title; conts.; text, pp. 1-141, in chapters I-V; appendix, pp. 143-395. A popular account of places visited in the voyage of the Tuscan, 1833-1836. Frequent reference to birds and other animals is found throughout the text. The appendix is devoted entirely to natural history (birds, pp. 242-254).

A voyage containing much of interest to natural historians, as well as to students of many other fields. Pp. 15-16 of vol. II contain an interesting account which seems to apply to the California Condor as observed at Cape San Lucas in December of 1835 and which was not noted in Harry Harris's exhaustive "The annals of Gymnogyps to 1900" (*Condor*, 1941:3-55).

BMNH, I:136; Wood, 231.

## BENNETT, GEORGE (1804-1893)

228. 1860. *Gatherings of a naturalist / in / Australasia: / being / observations principally on the / animal and vegetable productions / of / New South Wales, New Zealand, / and some of the / austral islands. / By / George Bennett, M.D., F.L.S., F.Z.S., / Fellow of the Royal College of Surgeons [Etc., 4 lines]. / London: / John Van Voorst, Paternoster Row. / MDCCCLX.*

8vo (22.0 × 14.2 cm). Pp. i-xii, 1-456; lith. col. plates I (front.), II-VIII (plates I and IV ornith., by J. Wolf), woodcut text-figs. 1-27.

*Contents*—Title; pref.; conts.; list of illustrs.; text, chapters I-XXIII, a capably written, non-technical account devoted almost entirely to natural history (there are frequent references to birds and some chapters are almost entirely ornithological).

This attractive work is said to be rather scarce. Bookplate: Henry L. White, Scone, N.S.W. Contains occasional manuscript annotations.

BMNH, I:135; Mathews, 8; Whittell, 49; Wood, 231.

## BENNETT, LOGAN JOHNSON (1907-1957)

229. 1938. *The / Blue-winged Teal / Its ecology and management / By / Logan J. Bennett / Associate Biologist / United States Bureau of Biological Survey / Collegiate Press, Inc. / Ames, Iowa / 1938.*

(22.9 × 15.5 cm). Pp. i-xiv, 1-144; col. front. (by Sid Horn), text-figs. 1-38 (photos, line-cuts, maps, etc.), 19 vigns.

*Contents*—Half-title; title; pref.; acknowledgment; conts.; list of illustrs.; text, pp. 1-132, complexly divided, in chapters I-XIX, being a detailed treatment of the subject outlined in title; literature cited, pp. 133-137; index, pp. 139-144.

A useful study prepared as a doctoral thesis at Iowa State College.

Reviewed: *Auk*, 1938:565 (Glover M. Allen).

## BENNITT, RUDOLF (1898-1950)

230. 1932. *The / University of Missouri / Studies / A Quarterly of Research / Contents / Check-list of the birds of Missouri / by / Rudolf Bennitt, Ph.D. / Associate Professor of Zoology / [Seal] / Volume VII July 1, 1932 Number 3 / Published at the University of Missouri, Columbia / in January, April, July, and October / Single Copies: One Dollar and a Quarter [;] Annual Subscription: Four Dollars / Entered as second-class matter at the postoffice at Columbia, Missouri.*

(26.2 × 18.7 cm). Pp. 1-81; map.

*Contents*—Title; introd., pp. 1-9 (plan of work, etc.); map, p. 10; text, pp. 11-67, being a briefly annotated check-list with symbols denoting status, remarks on unusual records, etc.; summary, pp. 67-71; references cited, pp. 72-75; index to birds, pp. 76-81.

The only comprehensive list of Missouri birds published since Otto Widman's *A preliminary catalogue of the birds of Missouri*, Saint Louis, 1907. The accounts of the distribution of subspecies are based on fragmentary evidence. The copy at hand is autographed by the author.

Reviewed: *Auk*, 1934:112-113 (Witmer Stone).

BENOIT, LUIGI (1804-1890)

231. 1840. *Ornitologia Siciliana / o sia / catalogo ragionato / degli uccelli che si trovano in Sicilia / di / Luigi Benoit, / Socio corrispondente dell' Accademia Giojenia / di scienze naturali di Catania. / Messina, stamperia di Giuseppe Fiumara / 1840.*

8vo (21.0 × 13.0 cm). Pp. i-viii, 1-231.

*Contents*—Title; Introduzione, pp. iii-viii; text, p. 1-207, a descriptive catalogue of Sicilian birds; indices, pp. 209-229; "Errori," p. 231.

A creditable list, annotated in considerable detail.

BMNH, I:136; Wood, 231; Zimmer, 54.

BENT, ARTHUR CLEVELAND (1866-1954)

232. 1919. Smithsonian Institution / United States National Museum / Bulletin 107 / *Life histories of North American / diving birds / Order Pygopodes / By / Arthur Cleveland Bent / of Taunton, Massachusetts / [Seal] / Washington / Government Printing Office / 1919.*

8vo (22.7 × 14.5 cm). Pp. i-xiii [xiv], 1-245; photogr. plates 1 (front.), 2-55 (plates 44-55 col., of eggs).

*Contents*—Title; advt.; introd., pp. v-ix; conts.; text, pp. 1-224, treating those species recorded in North America of the families Colymbidae (Podicipedidae), Gaviidae, and Alcidae;<sup>1</sup> bibl., pp. 225-231; explanation of plates, pp. 233-239; index, pp. 241-245. Following a general account, each species is treated in detail under headings such as Nesting, Young, Plumages, Food, Behavior, Winter, Breeding Range, Winter Range, etc. Subspecies receive additional treatment as required.

The first installment of a monumental effort, now nearly complete. "Begun as a continuation of Charles E. Bendire's uncompleted 'Life histories of North American Birds' [No. 223], but elaborated in scope and detail. . . . The present volume contains an enormous amount of detailed information. . . . The illustrations consist of photographs of nests, nesting sites and birds, and of figures of the eggs of certain species, all but one in natural colors [colored plates of eggs appear only in the first two vols. of the series]. The work is rendered more valuable by data contributed by a large corps of voluntary assistants in every part of the country"

<sup>1</sup>The nomenclature and classification of the first and the following seven installments (1919-1929) are those of the 3rd edit. of the A.O.U. *Check-List* (No. 64); the nomenclature of succeeding installments published to date is that of the 4th edit. (No. 65), but the sequence of orders and families has necessarily been governed to some extent by the original plan of the work. Family names given in describing it here are from the 4th edit. of the *Check-List*.

(Zimmer). As do later volumes, the present one contains accounts of certain species written entirely by specialists most familiar with them. These are too numerous to warrant listing all of the contributors here. "Bent" is an essential part of every basic ornithological library, and the number of research projects which have begun with a perusal of the series must be very large indeed. Some of the later volumes have received adverse comment because of uncritical acceptance of questionable or worthless matter, and there can be no question that critical information is sometimes deeply buried among unnecessarily inflated passages, but these failings should not obscure the fact of the whole work's great positive value.

The twentieth volume of the series (No. 253) was seen through the press, after the author's death, by Wendell Taber, who assumed and partially discharged the task of completing the work before his own death on August 29, 1960. Responsibility for the remainder was accepted by Oliver L. Austin, Jr.

The early volumes have become rather hard to get and accordingly expensive, and the demand has resulted in republication of certain early installments (see Nos. 234, 238), including the present one (*Cf. Auk*, 1947:327-328; *Wilson Bull.*, 1947:46-47).

Wood, 232 (part); Zimmer, 64 (part). Reviewed: *Auk*, 1919:593-595 (Witmer Stone). See also reviews of later installments, especially No. 249.

233. 1921. Smithsonian Institution / United States National Museum / Bulletin 113 / Life histories of North American / gulls and terns / Order Longipennes / By / Arthur Cleveland Bent / of Taunton, Massachusetts / [*Seal*] / Washington / Government Printing Office / 1921.

8vo (22.7 × 14.5 cm). Pp. i-x, 1-345; fotogr. plates 1 (front.), 2-93 (plates 78-93 col., of eggs).

*Contents*—Title; advt.; introd., pp. v-vi, containing acknowledgments, notes on plans for the work, and corrections concerning the first installment (Bulletin 107); conts.; text, pp. 1-318, arranged as in the first vol. (No. 232), and treating the families Stercorariidae, Laridae, and Rhynchopidae; bibl., pp. 319-328; explanation of plates, pp. 329-340; index, pp. 341-345.

The second installment of this indispensable reference (see No. 232).

Wood, 232; Zimmer, 54. Reviewed: *Auk*, 1932:122-123 (Witmer Stone); *Ibis*, 1922:578-579.

234. 1947. Life Histories / of / North American / Gulls and Terns / Order Longipennes / By / Arthur Cleveland Bent / of Taunton, Massachusetts / Dodd, Mead & Company New York 1947.

(23.3 × 15.8 cm). Pp. i-x [2], 1-333.

*Contents*—Note; title; introd.; conts.; subtitle; text, pp. 1-318; bibl., pp. 319-328; index, pp. 329-333.

A reset reprinting of *Bulletin* 113 of the U. S. National Museum, 1921 (No. 233), produced in response to the considerable demand for the difficult-to-obtain back numbers of "Bent." The text reads line for line and page for page with the

original, and is similarly paged except for some preliminary and terminal matter (the illustrations have been omitted, along with those pp. bearing explanations thereof). There is also a Dover Publications facsimile edition of the same installment.

Reviewed: *Wilson Bull.*, 1947:216 (J. Van Tyne).

235. 1922. Smithsonian Institution / United States National Museum / Bulletin 121 / **Life histories of North American / petrels and pelicans / and their allies / Order Tubinares and Order Steganopodes / By / Arthur Cleveland Bent / Of Taunton, Massachusetts / [Seal] / Washington / Government Printing Office / 1922.**

8vo (22.7 × 14.5 cm). Pp. i-xii, 1-343; fotogr. plates 1 (front.), 2-69.

*Contents*—Title; advt.; introd.; conts.; text, pp. 1-315, arranged as in earlier vols., treating the families Diomedidae, Hydrobatidae, Procellariidae, Phaëthontidae, Sulidae, Anhingidae, Phalacrocoracidae, Pelecanidae, and Fregatidae; bibl., pp. 317-327; explanation of plates, pp. 329-335; index, pp. 337-343.

The third volume of the series (see Nos. 232, 233). The colored plates of eggs were discontinued after the second volume.

Wood, 232. Reviewed: *Auk*, 1923:149-150 (Witmer Stone); *Ibis*, 1923:534-535.

236. 1923. Smithsonian Institution / United States National Museum / Bulletin 126 / **Life histories of North American wild fowl / Order Anseres (Part) / By / Arthur Cleveland Bent / Of Taunton, Massachusetts / [Seal] / Washington / Government Printing Office / 1923.**

8vo (22.7 × 14.5 cm). Pp. i-ix [x], 1-250; fotogr. plates 1 (front.), 2-46.

*Contents*—Accessory matter essentially as in earlier vols. of the series (see above). The text, pp. 1-230, arranged as in earlier vols., treats part of the family Anatidae, treating mergansers, dabbling ducks, and diving ducks (bibl., pp. 231-239).

The fourth volume of the series (see No. 232 *et seq.*).

Wood, 232; Zimmer, 54-55. Reviewed, *Auk*, 1923:702-703 (Witmer Stone); *Ibis*, 1923:753-754.

237. 1925. Smithsonian Institution / United States National Museum / Bulletin 130 / **Life histories of North American / wild fowl / Order Anseres (Part) / By Arthur Cleveland Bent / Of Taunton, Massachusetts / [Seal] / Washington / Government Printing Office / 1925.**

8vo (22.7 × 14.5 cm). Pp. i-x, 1-376; fotogr. plates 1-60.

*Contents*—Accessory material as in earlier vols. (see above). The text, pp. 1-301, treats that part of the Anatidae not covered in the preceding installment (No. 236), including the remaining ducks and the geese and swans; bibl., pp. 303-311.

The fifth volume of the series (see No. 232 *et seq.*).

Wood, 232. Reviewed: *Auk*, 1925:595 (Witmer Stone); *Ibis*, 1926:193-194.

238. 1951. Arthur Cleveland Bent / of Taunton, Massachusetts / **Life histories of / North American wild fowl / (Order Anseres) / Ducks, Geese & Swans / In two volumes / volume one [two] / Dover Publications, Inc.**

2 vols., 8vo (23.5 × 15.6 cm). collation and contents as in No. 236 (vol. 1) and No. 237 (vol. II), with certain changes in terminal pagination resulting from resetting the explanations of the plates at the bases of the plates themselves instead of on pages reserved for this purpose.

Photo-offset facsimiles of the originals (Nos. 236, 237). The plates have suffered somewhat in reproduction.

Reviewed: *Bird-Banding*, 1952:95 (D. S. Farner).

239. 1926. Smithsonian Institution / United States National Museum / Bulletin 135 / **Life histories of / North American marsh birds / Orders Odontoglossae, Herodiones / and Paludicolae / By / Arthur Cleveland Bent / Of Taunton, Massachusetts / [Seal] / Washington / Government Printing Office / 1926.**

8vo (22.7 × 14.5 cm). Pp. i-xii, 1-490; photogr. plates 1 (front.), 2-98.

*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-371, treats the North American representatives of the families Phoenicopteridae, Threskiornithidae, Ciconiidae, Ardeidae, Gruidae, Aramidae, and Rallidae. Bibl., pp. 373-385.

The sixth volume of the series (see No. 232 *et seq.*).

Wood, 282. Reviewed: *Auk*, 1927:443-444 (Witmer Stone); *Ibis*, 1927:750.

240. 1927. Smithsonian Institution / United States National Museum / Bulletin 142 / **Life histories of North American shore birds / Order Limicolae (Part 1) / By / Arthur Cleveland Bent / Of Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington / 1927.**

8vo (22.7 × 14.5 cm). Pp. i-ix [x], 1-420; photogr. plates 1 (front.), 2-55.

*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-349, treats North American members of the Phalaropodidae, Recurvirostridae, and Scolopacidae (part: *Scolopax* through *Totanus*). Bibl., pp. 350-359.

The seventh volume of the series (see No. 232 *et seq.*).

Wood, 232. Reviewed: *Auk*, 1928:238-239 (Witmer Stone).

241. 1929. Smithsonian Institution / United States National Museum / Bulletin 146 / **Life histories of North American / shore birds / Order Limicolae (Part 2) / By / Arthur Cleveland Bent / Of Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington / 1929.**

8vo (22.7 × 14.5 cm). Pp. i-ix [x], 1-412; photogr. plates 1 (front.), 2-66.

*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp.

1-327, treats the remainder of the family Scolopacidae (begun in preceding installment), and the Charadriidae, Haematopodidae, and Jacanidae. *Bibl.*, pp. 329-340.

The eighth volume of the series (see No. 232 *et seq.*).

Reviewed: *Auk*, 1929:405 (Witmer Stone).

242. 1932. Smithsonian Institution / United States National Museum / Bulletin 162 / **Life histories of / North American gallinaceous birds / Orders Galliformes and Columbiformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington: 1932 / Superintendent of Documents, Washington, D. C.—Price \$1.00 (Paper cover).**

8vo (22.7 × 14.5 cm). Pp. i-ix [x], 1-490; fotogr. plates 1-93.

*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-458, treats North American members of the families of Phasianidae, Tetraonidae, Meleagrididae, Cracidae, and Columbidae. *Bibl.*, pp. 459-477.

The ninth volume of the series (see No. 232 *et seq.*).

Reviewed: *Auk*, 1932:500 (Witmer Stone).

243. 1937. Smithsonian Institution / United States National Museum / Bulletin 167 / **Life histories of / North American birds of prey / Order Falconiformes (Part 1) / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1937 / For sale by the Superintendent of Documents, Washington, D. C.—Price 70 cents.**

8vo (22.7 × 14.5 cm). Pp. i-viii, 1-409; fotogr. plates 1-102.

*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-379, treats North American members of the families Cathartidae and Accipitridae. *Bibl.*, pp. 381-398.

The tenth volume of the series (see No. 232 *et seq.*).

Reviewed: *Auk*, 1937:555-556 (Glover M. Allen).

244. 1938. Smithsonian Institution / United States National Museum / Bulletin 170 / **Life histories of / North American birds of prey / (Part 2) / Orders Falconiformes and Strigiformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1938 / For sale [Etc., see No. 243] Price 60 cents.**

8vo (22.7 × 14.5 cm). Pp. i-viii, 1-482; fotogr. plates 1-92.

*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-444, treats North American species of the Falconidae, Tytonidae, and Strigidae. *Bibl.*, pp. 445-466.

The eleventh volume of the series (see No. 232 *et seq.*).

Reviewed: *Auk*, 1939:94-95 (Glover M. Allen); *Ibis*, 1939:366-367.

245. 1939. Smithsonian Institution / United States National Museum / Bulletin 174 / **Life histories of / North American woodpeckers / Order Piciformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States [ Government Printing Office / Washington:1939 / For sale [Etc., see No. 243] Price 50 cents.**  
8vo (22.7 × 14.5 cm). Pp. i-viii, 1-334; fotogr. plates 1-39.  
*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-308, covers North American members of the family Picidae. Bibl., pp. 309-322.  
The twelfth vol. of the series (see No. 232 *et seq.*).  
Reviewed: *Auk*, 1939:489-490 (G. M. Allen); *Ibis*, 1940:550-551.
246. 1940. Smithsonian Institution / United States National Museum / Bulletin 176 / **Life histories of / North American cuckoos / goatsuckers, hummingbirds / and their allies / Orders Psittaciformes, Cuculiformes / Trogoniformes, Coraciiformes, Caprimulgiformes / and Micropodiiformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1940 / For sale [Etc., see No. 243] Price 75 cents (Paper).**  
8vo (22.7 × 14.5 cm). Pp. i-viii, 1-506; fotogr. plates 1-73.  
*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-472, treats North American members of the Psittacidae, Cuculidae, Trogonidae, Alcedinidae, Caprimulgidae, Micropodidae, Apodidae and Trochilidae. Bibl., pp. 473-492.  
The thirteenth vol. of the series (see No. 232 *et seq.*).  
Reviewed: *Ibis*, 1941:190-192; *Auk*, 1941:111-112 (D. E. Davis), *Bird Banding*, 1940:182-183 (W. M. Tyler).
247. 1942. Smithsonian Institution / United States National Museum / Bulletin 179 / **Life histories of / North American flycatchers / larks, swallows, and / their allies / Order Passeriformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1942 / For sale [Etc., see No. 243] Price \$1.00 (paper).**  
8vo (22.7 × 14.5 cm). Pp. i-xi [xii], 1-555; fotogr. plates 1-70.  
*Contents*—Arranged essentially as in earlier volumes. The text, pp. 1-516, treats the North American Cotingidae, Tyrannidae, Alaudidae, and Hirundinidae. Bibl., pp. 517-538.  
The fourteenth volume of the series (see No. 232 *et seq.*).  
Reviewed: *Auk*, 1942:592 (J. T. Zimmer); *Bird-Banding*, 1942:194 (M. M. Nice); *Wilson Bull.*, 1942:219-220 (J. M. Linsdale).
248. 1946. Smithsonian Institution / United States National Museum / Bulletin 191 / **Life histories of North American / jays, crows, and titmice / Order Passeriformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States /**

Government Printing Office / Washington:1946 / For sale by the Superintendent of Documents, U. S. Government Printing Office / Washington 25, D. C.

8vo (24.3 × 15.3 cm, untrimmed). Pp. i-xi [xii], 1-495; photogr. plates 1-68.

*Contents*—Arranged essentially as in earlier vols. (see above.) The text, pp. 1-460, treats the North American Corvidae and Paridae. Bibl., pp. 461-480.

The fifteenth vol. of the series (see No. 232 *et seq.*).

Reviewed: *Auk*, 1947:475 (J. T. Zimmer); *Wilson Bull.*, 1947:179-181 (A. L. Rand).

249. 1948. Smithsonian Institution / United States National Museum / Bulletin 195 / **Life histories of North American / nuthatches, wrens, thrashers / and their allies / Order Passeriformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1948 / For sale by [Etc., see No. 248] / Washington 25, D. C.—Price \$1.75.**

8vo (24.3 × 15.3 cm, untrimmed). Pp. i-xi [xii], 1-475; photogr. plates 1-90.

*Contents*—Arranged essentially as in earlier vols. Treated herein, pp. 1-436, are the North American species of the families Sittidae, Certhiidae, Chamaeidae, Cinclidae, Troglodytidae, and Mimidae. Bibl., pp. 437-459.

The sixteenth volume of the series (see No. 232 *et seq.*).

Reviewed: *Wilson Bulletin*, 1948:251 (F. A. Pitelka; see also Linsdale, J., *Wilson Bull.*, 1942:219-220, and Rand, A., *ibid.*, 1947:179-181); *Auk*, 1948:617 (J. T. Zimmer).

250. 1949. Smithsonian Institution / United States National Museum / Bulletin 196 / **Life histories of North American / thrushes, kinglets, and / their allies / Order Passeriformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1949 / For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. / Price \$1.50.**

8vo (24.3 × 15.3 cm, untrimmed). Pp. i-viii, 1-454; photogr. plates 1-51.

*Contents*—Arranged essentially as in earlier vols. (see above). The text, pp. 1-418, covers North American birds of the families Turdidae, and Sylviidae (including *Regulus*). Bibl., pp. 419-439.

The seventeenth volume of the series (see No. 232 *et seq.*).

Reviewed: *Bird-Banding*, 1950:39-40 (D. S. Farner).

251. 1950. Smithsonian Institution / United States National Museum / Bulletin 197 / **Life histories of North American / wagtails, shrikes, vireos, and / their allies / Order Passeriformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1950 / For sale by the Superintendent of Documents, U. S. Government Printing Office / Washington 25, D. C.—Price \$1.50.**

8vo (24.3 × 15.3 cm, untrimmed). Pp. i-vii [viii], 1-411; photogr. plates 1-48.

*Contents*—Arranged essentially as in earlier vols. (see above). North American species treated here, pp. 1-382, are those of the families Prunellidae, Motacillidae, Bombycillidae, Ptilogonatidae, Laniidae, Sturnidae, Vireonidae, and Coerebidae (the genus *Coereba* is treated, without family heading, at the end of the Vireonidae). Bibl., pp. 383-400.

The eighteenth volume of the series (see No. 232 *et seq.*).

Reviewed: *Bird-Banding*, 1950:172 (D. S. Farner).

252. 1953. Smithsonian Institution / United States National Museum / Bulletin 203 / **Life histories of North / American wood warblers / Order passeriformes / By / Arthur Cleveland Bent / Taunton, Massachusetts / [Seal] / United States / Government Printing Office / Washington:1953 / For sale by the Superintendent of Documents, U. S. Government Printing Office / Washington 25, D. C. Price \$4.50 (paper).**

8vo (24.3 × 15.4 cm, untrimmed). Pp. i-xi [xii], 1-734; photogr. plates 1-83 (125 photos., printed both sides).

*Contents*—Title; conts.; introd.; text, pp. 1-689, arranged as in earlier vols.; bibl., pp. 691-712; index, pp. 713-734.

The nineteenth volume of the series (see No. 232 *et seq.*).

Reviewed: *Wilson Bulletin*, 1955:70-72 (Maurice Brooks); *Bird-Banding*, 1954:69-70 (M. M. Nice).

253. 1958. United States National Museum / Bulletin 211 / **Life histories of / North American / blackbirds, orioles, / tanagers, and allies / Order Passeriformes: Families Ploceidae, / Icteridae, and Thraupidae / By Arthur Cleveland Bent / Smithsonian Institution Washington, D. C. 1958.**

8vo (23.7 × 15.5 cm, untrimmed). Pp. i-ix [x], 1-549; photogr. plates 1-37 (plate 5 unnumb.; 55 photos., printed both sides).

*Contents*—Title; note; conts.; introd.; note on the author (notice of death Dec. 30, 1954, with plans for conclusion of work posthumously; by Wendell Taber); text, pp. 1-509, arranged essentially as in earlier vols.; bibl., pp. 510-531; index, pp. 533-549.

The twentieth volume of the series (see No. 232 *et seq.*).

Reviewed: *Auk*, 1958:361 (E. Eisenmann).

BERG, BENGT MAGNUS KRISTOFFER (1885- )

254. 1930. **To Africa / with the migratory birds / by / Bengt Berg / [Vign.] / With 75 illustrations / New York G. P. Putnam's Sons London / The Knickerbocker Press / 1930.**

(22.8 × 17.8 cm). Pp. [2] 1-274; photogr. front., 60 photogr. plates, photogr. endpapers.

*Contents*—Title; list of illustrs.; subtitle; text, pp. 9-274, in chapters I-XVII, being popularly written account of observations from blinds and otherwise of many species of birds, and containing interesting information on bird behavior.

Translated from the German edition *Mit den Zugvögeln nach Afrika*, Berlin, D. Reimer, 1924 (see Strong, I:141). There may also be a German edition or impression of 1925 (see Wood, p. 233), and another English edition appeared in 1931 (No. 255).

255. 1931. *With the migratory / birds to Africa / by / Bengt Berg / [Seal] / Translated by / F. R. Barton, C.M.G. / London / Jonathan Cape / Toronto.*

(20.0 × 13.5 cm). Pp. 1-216; photogr. front., 45 photogr. plates.

*Contents*—Half-title; title; list of illustrs.; ded.; subtitle; text, pp. 11-216, in chapters I-XIII.

Despite the statement on reverse of title that this work was first published in 1931, this is merely an inferior edition of the author's *To Africa with the migratory birds*, 1930 (No. 254), translated from the original German edition of 1924. The text generally follows that of the larger English edition, but has many differences in wording (being, apparently, a different translation) and is divided into a different number of chapters. The photographs are the same but reduced in number and the quality of reproduction is poorer. A note by Ralph Ellis on a binder's leaf suggests that the book is rare since almost the entire issue had been purchased by H. M. Prisons library.

#### BERGE, FRIEDRICH

256. 1840-43. *Die Fortpflanzung / europäischer und aussereuropäischer Vögel. / Ein Beitrag / zur Naturgeschichte derselben. / Nach eigenen Erfahrungen und Beobachtungen und mit Abbildungen / nach der Natur herausgegeben / von / F. Berge. / Erster [Zweiter] Theil. / Stuttgart. / Verlag von L. F. Rieger & Comp. / 1840 [1841].*

2 vols. in 1, 8vo (14.8 × 10.7 cm).

Vol I: pp. 1-222 (p. 219 misnumb. 119), [2]; lith. col. plates I-XCVI (eggs).

Vol. II: pp. 1-100; lith. col. plates I-XCVI (eggs).

*Contents*—Vol. I: title, p. 1 (p. 2 blank); Einleitendes Vorwort, pp. 3-8 (dated Stuttgart, May 1840); Ueber die Fortpflanzung der Vögel im Allgemeinen, pp. 10-40; systematic list, or text proper (Von der Fortpflanzung der Vögel insbesondere), pp. 41-211 (for each species discussed, scientific name, vernaculars, references to other authorities, and brief description of range and nesting habits); Register, pp. 213-222; Corrigenda, 1 leaf. Vol. II: title, p. 1 (p. 2 blank); text proper as in vol. I, pp. 3-94; Register, pp. 95-100.

This little book is mentioned in few bibliographies. The plates are rather poor. According to Engelmann it was published in 12 Lieferungen, 1840-1843.

## BERGMAN, STEN (1895- )

257. 1935. *Zur Kenntnis / nordostasiatischer / Vögel / Ein Beitrag zur Systematik, Biologie und / Verbreitung der Vögel Kamtschatkas / und der Kurilen / Mit 32 Bildern und 2 Karten / von / Sten Bergman / [Monogram] / Stockholm / Albert Bonniers Förlag.*

(24.1 × 19.1 cm). Pp. 1-268; 16 fotogr. plates (printed both sides of 8 leaves, photos. 1-32 [21-32 ornith.]), 2 maps (1 fold).

*Contents*—Half-title; title; conts.; Vorwort, pp. 7-10; history of ornithology in Kamchatka and the Kuriles, pp. 11-13; geographical notes, pp. 14-20; author's itinerary, pp. 20-23; text, part I (p. 25-156) dealing with the avifauna of Kamchatka, part II (pp. 157-257) with that of the Kuriles; literature cited, pp. 259-264; index, pp. 265-268. The text is systematically arranged, treating each form under scientific name only, with lists of specimens taken followed by varied distributional and systematic comments.

An account of the ornithology of Kamchatka and the Kurile Islands, based on visits by the author, in 1920-22 and 1929-30 respectively, with reference to literature. The work is a basic reference for these areas. One new name (*Dryobates kizuki nagamichi*, for *D. k. kuroda*, preoccupied) dates from the work, certain new forms having been described elsewhere (*Arkiv för Zoologi*, 1931).

Reviewed: *Ibis*, 1935:675-676; *Auk*, 1935:333 (Witmer Stone).

## BERGTOLD, WILLIAM HARRY (1865-1936)

258. 1917. *A Study / of the / Incubation Periods / of / Birds / What determines their / length? / By / W. H. Bergtold, M.D., M.Sc. / Member of the American Ornithologists' Union / The Kendrick-Bellamy Co. / Denver, Colorado / 1917.*

(22.8 × 15.0 cm). Pp. 1-109.

*Contents*—Title, p. 1; pref., p. 3; synopsis, pp. 5-6; text, pp. 7-109, with tables showing (1) the incubation periods of birds of many families, as determined from literature and correspondence (pp. 77-105) and (2) the authorities responsible, with citations of sources (pp. 105-109). The text is devoted to a thorough consideration of the various factors influencing incubation periods of birds, after which certain tentative conclusions are reached.

An important resumé of knowledge, as it stood at the time of writing, of a subject which has recently occasioned much interest (see Nice, M. M., *Wilson Bulletin*, 65:81-93, 1953, and *Condor*, 56:173-197, 1954). As the author duly predicted, we now know that many of the incubation periods here cited are erroneous, and in some cases the misinformation can be traced back to the Middle Ages and farther.

Wood, 233; Zimmer, 55. Reviewed: *Auk*, 1917:488-489 (Witmer Stone); *Ibis*, 1917:618-620.

## BERKENHOUT, JOHN (1730?-1791)

259. 1769-1772. *Outlines / of the / natural history / of / Great Britain / and / Ireland. / Containing / A systematic Arrangement and concise Description of / all*

the Animals, Vegetables, and Fossiles [Fossils, (*Vol. III*)] which have / hitherto been discovered in these Kingdoms. / By John Berkenhout, M.D. / In three volumes. / Vol. I [-III]. / Comprehending the Animal [Vegetable (*Vol. II*); Fossil (*Vol. III*)] Kingdom. / London: / Printed for P. Elmsley (Successor to Mr. Vaillant) / facing Southampton-street [Southampton-Street (*Vols. II, III*)], in the Strand. / MDCCLXIX [MDCCLXX; MDCCLXXII].

3 vols., 8vo (20.3 × 12.2 cm, fore-edge only trimmed).

Vol. I: pp. i-xiii [xiv], 1-233 [234].

Vol. II: pp. i-vii [viii-ix] 10-16, <sup>2</sup>1-353 [354-356].

Vol. III: pp. i-xii, 1-103 [104].

*Sigs.*—Vol. I: A<sup>8</sup>(-A8) B-P<sup>8</sup> Q<sup>4</sup> χ<sup>1</sup>[=A8]; 124 leaves. A8 (pp. 233-234) bound as A8 instead of being wrapped round as intended to form χ<sup>1</sup>. Vol. II: A-Z<sup>8</sup> Aa<sup>2</sup>. Vol. III: π<sup>2</sup> a<sup>4</sup> B-G<sup>8</sup> H<sup>4</sup>.

*Contents*—Vol. I: title, p. i; ded., pp. iii-v; pref., pp. vi-ix; classification of animal kingdom, pp. x-xiii; p. xiv blank; text, consisting of an annotated synopsis of animals in the area covered, pp. 1-220; indices, pp. 221-230; explanation of terms, pp. 231-233; p. 234 blank. Birds are treated on pp. 10-58. Since no mention is made of birds in Vols. II and III, no contents list is given here.

The present interest of the work is chiefly historical. Birds are mentioned only in the first volume, nomenclature being but partly Linnean. A few notes on distribution are appended to the brief descriptions of forms.

Mullens and Swann, 58-59 (biogr., etc.); Wood, 234.

260. 1795. *Synopsis / of the / natural history / of / Great Britain and Ireland. / Containing / a systematic arrangement / and / concise description / of all the / animals, vegetables, and fossils, / which have hitherto been discovered / in these kingdoms. / By John Berkenhout, M.D. / Being a / third edition of The Outlines, &c. / corrected and considerably enlarged. / Vol. I[-II]. / Comprehending the animal and fossil [vegetable] / kingdoms [kingdom]. / London: / printed for T. Cadell, and sold by T. Cadell, Junior, / and W. Davies, (successors to Mr. Cadell) / in the Strand. / MDCCXCV.*

2 vols., 8vo (19.5 × 12.5 cm, untrimmed).

Vol. I: pp. [2] [i-v] vi-xii [13] 14-15 [16-17] 18-19 [20], <sup>2</sup>[1] 2-334.

Vol. II: pp. [4] [1] 2-337 354-450 [2] [451] 452-466 (i.e., 450).

*Sigs.*—Vol. I: π<sup>1</sup>[=Y8] A<sup>8</sup> a<sup>2</sup> B-X<sup>8</sup> Y<sup>8</sup>(-Y8); 178 leaves. Half-title (printed as Y8) bound as Y8 instead of being removed to its intended preliminary position. Vol. II: [A]<sup>2</sup> B-Ee<sup>8</sup> Ff<sup>2</sup> Gg<sup>8</sup>; 456 leaves.

*Contents*—Vol. I: half-title, p. [1]; p. [2] blank; title, p. i; p. ii blank; ded., p. iii; p. iv blank; pref., pp. v-xii; classification of animal kingdom, pp. 13-15; p. 16 blank; "Derivations," i.e., glossary of terms, p. 17-19; p. 20 blank; text, pp. <sup>2</sup>1-313; p. <sup>2</sup>314 blank; indices, pp. <sup>2</sup>315-334. Birds are treated on pp. <sup>2</sup>10-54. Since no mention of birds is made in Vol. II, no contents list is given here.

Another edition, retitled and extensively revised, of the author's *Outlines of*

*the natural history of Great Britain and Ireland, 1769-1772* (No. 259). This is evidently the third edition, the second, according to Mullens and Swann (p. 58), having appeared in 1789.

Wood, 234.

BERRIDGE, WALTER SYDNEY

261. 1922. *Animal / curiosities / by / W. S. Berridge, F.Z.S. / Author of "Wonders of Animal Life" [Etc., 2 lines.]. / [Seal] / With numerous photographic / illustrations by the author / Thornton Butterworth Limited / 15 Bedford Street, London, W.C. 2.*

8vo (22.5 × 14.5 cm). Pp. 1-252; front., 22 photogr. plates

*Contents*—Blank leaf; half-title; title (published 1922, on v.); pref.; conts.; list of illustrs.; text, p. 15-248, in chapters I-XIV, written for the lay reader and covering a miscellany of zoological subjects with much on birds including some whole chapters; index, pp. 249-252.

Title and contents self-explanatory.

Wood, 235.

BEVERLY, ROBERT (*ca. 1673-ca. 1722*)

262. 1707. *Histoire / de la / Virginie, / contenant / I. L'Histoire du premier Establisement dans la Vir- / ginie, & de son Gouvernement jusques à présent. / II. Les productions naturelles & les commoditez / du País, avant que es [sic] Anglois y negociassent, & / l'améliorassent. III. La Religion, les Loix, & / les Coutumes des Indiens Naturels, tant dans la / Guerre, que dans la Paix. IV. L'Etat présent du / País, tant à l'égard de la Police, que de l'Ame- / lioration du País. / Par un Auteur natif & habitant du País. / Traduite de l'Anglois. / Enrichie de Figures. / [Orn.] / A Amsterdam, / Chez Thomas Lombraill, Marchand / Libraire dans le Beurs-straat. / MDCCVII.*

12mo (15.7 × 10.0 cm). Pp. [6] 1-432 [16]; engr. front.-title-page, engr. plates I-XIV, 1 fold. table ("Pag. 433").

*Sigs.*— $\pi^2$  \*2 A-S12 T<sup>8</sup>; 228 leaves. Fol.  $\pi$ 1, although engraved, is conjugate with the title-leaf. Q3 mis-signed R3.

*Contents*—Engraved frontispiece-title-page,  $\pi$ 1<sup>v</sup>; title,  $\pi$ 2<sup>r</sup>; "Avis,"  $\pi$ 2<sup>v</sup>; pref., \*1<sup>r</sup>-2<sup>v</sup>; text, A-S12<sup>v</sup>, divided as indicated in title into four books, containing respectively chapters I-IV (pp. 1-162), I-VI (pp. 163-224), I-XIII (pp. 225-318), and I-XXII (pp. 319-432); folding table of the counties of Virginia, identified as "Pag. 433"; index, T1-8<sup>v</sup>. Considerable casual comment on birds and other animals is found in chapters V and VI of the second book (pp. 208-224), forming one of the earliest accounts of the New World fauna.

A French translation of a well-known English text, first published in 1705, describing the Virginia colony. Accounts of several editions of this interesting work are given by Sabin (nos. 5112-5117, the Ellis edition no. 5116), Cox (II:89)

and Church (nos. 821 and 885). The plates are copied from engravings after the work of Jacques Le Moyne, first published in De Bry's "Great Voyages" (parts 1 and 2, 1590-91) and later copied and reworked by Gribelin for the first edition of Beverly and again reworked for the edition in hand. For comment on the value of Le Moyne's drawings to ornithological history, see Allen, E. G., *Auk*, 1938:106-111.

BEWICK, THOMAS (1758-1828)

263a. 1797. *History / of / British birds. / The figures engraved on wood by T. Bewick. / Vol. I. / Containing the / history and description of land birds. / [Vign.] / Newcastle: / Printed by Sol. Hodgson, for Beilby & Bewick: Sold by them, / and G. G. & J. Robinson, London. / [Price 1l. 1s. in Boards.] / 1797.*

Imperial 8vo (27.5 × 17.5 cm, untrimmed). Pp. [i-iii] iv-vi [vii] viii-xxvi [xxvii] xxviii-xxx, [2], [1] 2-335 [336]; 117 figs. of birds, 91 vigns. (including title), tail-pieces, etc.; 208 wood-engravings in all.

*Sigs.*—a-b<sup>8</sup> B-Y<sup>8</sup>; 184 leaves.

*Contents*—Title, a1<sup>r</sup> (verso blank); pref. (dated Newcastle upon Tyne, September, 1797), a2-a3<sup>v</sup> (pp. iii-vi); introd., a4-b5<sup>v</sup> (pp. vii-xxvi); conts., b6-b7<sup>v</sup> (pp. xxvii-xxx); half-title, b8<sup>r</sup> (verso blank); text (by Beilby), B-Y8<sup>r</sup> (pp. 1-335), giving descriptions and brief, popularly written accounts of the habits of 140 British "land birds"; advt., Y8<sup>v</sup> (p. 336), announcing the 3rd ed. of Bewick's *A general history of quadrupeds*.

One of 24 copies printed in this size; untrimmed and in original boards. With notes (on front paste-down) of H. W. Bruton whose library was sold by Sotheby's, 15 May 1876.

Roscoe 14a, state A.

263b. 1797. *History / of / British birds. / [As No. 263a, 8 lines] / [Price 13s. in Boards.] / 1797.*

Thin royal 8vo (25.5 × 15.5 cm, untrimmed). Pagination, collation and contents as No. 263a.

Untrimmed and in original boards. Another copy, trimmed, in the Ellis collection, is one volume of the set described as No. 100 by Thomas Hugo in *The Bewick Collector*. It appears to have been sold to Hugo by John Gray Bell (author of *A descriptive and critical catalogue of works illustrated by Thomas and John Bewick*), whose label appears along with the Hugo plate on the front paste-down, and later belonged to Lord Lilford who purchased it at the Hugo sale of August 8, 1877.

Roscoe 14c, state A .

263c. 1797. *History / of / British birds. / [As No. 263a, 8 lines] / [Price 10s. 6d. in Boards.] / 1797.*

Demy 8vo (20.9 × 12.6 cm). Pagination, collation, and contents as No. 263a.

Untrimmed size 22.8 × 14.4 cm, according to Roscoe.

Roscoe 14d, state B.

The first edition of volume I ("land birds") of Bewick's well-known *History of British birds* also appeared in a fourth paper size, the "thick royal octavo," which is not represented in the Ellis Collection, and which may be identified by "Price 18s. in Boards." in brackets on the title-page. Roscoe recognizes two variant states: "A" in which the vignette on p. 22 appears horizontally and "B" in which it appears vertically. Whether the "thick royal octavo" paper was the same size as the "thin royal octavo" is unknown since Roscoe was unable to find an untrimmed copy of either that size or the "imperial octavo."

The "History of British birds" is generally catalogued as a two-volume work, as which, indeed, Bewick himself regarded it. The history of its publication, however, is complex, because the editions of volume I published within Bewick's lifetime do not agree in number and, in some cases, in date of appearance with those of volume II. It is therefore convenient to treat the two separately, further justification of this being found in the fact that their authorship is different. Before Bewick's death there were published eight editions of the "land birds" (1797, 1798, 1805, 1809, 1814-16, 1816, 1821, 1826) and six of the "water birds" (1804, 1805, 1809, 1816, 1821, 1826),<sup>2</sup> the two extra editions of the former having generally escaped notice, particularly in ornithological bibliographies. For definitive bibliographic description and discussion of the editions, and variants of the *History of British birds* published before 1828, see Sydney Roscoe's *Thomas Bewick, a bibliography raisonné*, Oxford University Press, New York and Toronto, 1953 (hereafter referred to simply as Roscoe).

The text of the first edition of volume I is by Bewick's partner, Ralph Beilby, Bewick himself having prepared all of volume II, with a disputed degree of editing by the Rev. Henry Cotes. Further editions of volume I were revised and enlarged by Bewick, and by the end of his life the text was largely his own. The woodcuts are entirely Bewick's. "It is for [them] that the work is mostly valued; the text is largely a compilation of the works of Pennant, Albin, Belon, and Willughby and Ray" (Zimmer). Bewick is best known as an artist, particularly for the part he played in reviving and perfecting the art of engraving on wood;<sup>4</sup> his chief interest to ornithologists lies in his claim to consideration as one of the important pioneers of "bird art" in the best sense of the term. Those of his ornithological figures drawn directly from nature are superior in execution, fidelity, and artistic excellence to anything achieved by his predecessors, being unrivalled in the field of bird portraiture until the appearance of William Swainson and John James Audubon.

Bewick's position as an ornithologist is less clearly defined. More or less immune to criticism for lack of great contribution to scientific ornithology, having never really essayed much in that direction, he was nevertheless a highly successful

<sup>2</sup>Three further editions of both volumes were published after Bewick's death, in 1832, 1847, and 1887 (No. 271).

<sup>4</sup>A group of 46 Bewick blocks, all of birds, forms part of the Ellis Collection.

writer and must have had a considerable effect on the general interest in birds during his times.

In the Ellis collection (Nos. 263-268) are examples of the first, second, third, and fifth editions of the "*land birds*" (1797, 1798, 1805, 1814-16) and the first and second editions (1804, 1805) of the "*water birds*." Further discussion of these and other editions appears below. Bewick also published (in 1800) the figures from the "*land birds*," without text (No. 272), and published supplements (1821, 1882) to both volumes of the *History of British birds* (Nos. 269, 270). His memoirs (Nos. 279-281), which appeared in three editions (1862, 1887, 1924), provide insight into his methods and intentions. Also to be considered is a series of minor pamphlets on natural history, for children, illustrated by Bewick and his pupils and published by Davison at Alnwick, ca. 1809, etc. (Nos. 273-278), as well as a number of the more pertinent bibliographic or historical works dealing in greater or lesser degree with the ornithological portion of Bewickiana. Among the latter are treatises by Bell, 1851; Boyd, 1886; Hugo, 1866, 1870; Robinson, 1887; Roscoe, 1953; Stephens, 1881; Stone, 1953; Thomson, 1882, 1930; and Weekley, 1953 (most of these will be described in their appropriate places in this catalogue). The several editions of Bewick's *A general history of quadrupeds*, and his work on fables, are beyond the scope of the present catalogue.

Anker, 35 (crit.); BMNH, I:158; Coues, 4:370-371, etc.; Mullens and Swann, 46-51 (hist., biogr); Newton, 20 (crit.); Nissen, no. 95; Roscoe, no. 14 (pp. 46-51; extensive description present edit.); Wood, 236; Zimmer, 57-58.

- 264a. 1798. *History / of / British birds. / The figures engraved on wood by T. Bewick. / Vol. I. / Containing the / history and description of land birds. / [Vign.] / Newcastle. / Printed by Sol. Hodgson, for Beilby & Bewick: Sold by them, / and G. G. and J. Robinson, London. / [Price 15s. in Boards.] / 1797.*

Thick royal 8vo (22.9 × 14.1 cm). Pp. [i-iii] iv-vi [vii] viii-xiii xvi xv-xxvi [xxvii] xxviii-xxx, [2], [1] 2-335 [336]; 117 figs. of birds, 91 vigns. (including title), tail-pieces, etc.; 208 wood-engravings in all.

Sigs.—a-b<sup>8</sup> B-Y<sup>8</sup> (M3 mis-signed M2); 184 leaves.

*Contents*—Essentially as in the first edition, but with minor variations in wording of text, etc., and in details of the figs. (see below). The advertisement on p. 336 announces the 4th rather than the 3rd ed. of Bewick's *A general history of quadrupeds*.

Roscoe 15c, state B (but see below), giving size as 23.6 × 14.5 cm.

- 264b. 1798. *History / of / British birds. / [As No. 264, 8 lines] / [Price 10s. 6d. in Boards.] / 1797.*

Demy 8vo (20.8 × 12.5 cm). Pagination, collation, and contents as No. 264a.

This copy, which formerly belonged to David Croal Thomson, one of Bewick's biographers, is interleaved. India-paper proofs of the cuts are mounted facing the appropriate pages. A number of additional india-paper proofs from cuts used in

*Figures of British land birds*, 1800 (No. 272) and other sources are mounted on blanks at the end.

Roscoe 15e, state B (but see below), giving size as 22.5 × 14.3 cm.

The second edition of volume I ("land birds") of Bewick's *History of British birds* (see No. 263). Incorrectly, most authors have referred to this edition as an "issue" or "impression" of the first edition. Roscoe (p. 56) wrote: "[This] is all the less understandable in that not only are there numerous revisions in the text but the type is reset throughout." Roscoe listed more than a score of places in which differences from the first edition occur, and gave evidence (pp. 56-58) of publication in 1798. He was apparently not aware that this second edition exists in corrected as well as uncorrected state; at least, this would seem to be the inference to be drawn from the differences between the three Ellis copies (two thin royal 8vo and one demy) and Roscoe's description 15. He describes copies with C3 and Q4 mis-signed C4 and 4 and with the page numbers of the inner forme of gathering D printed in a smaller type than those in the rest of the book. All three Ellis copies have these signatures corrected and page numbers uniform throughout, otherwise agreeing with Roscoe's description in every particular.

This edition, like the first, was printed on paper of four sizes, easily distinguishable by the prices printed on the title-page: imperial "[Price One Guinea in Boards.]," thin royal "[Price 13s. in Boards.]," the others as shown above in the title transcriptions. The imperial 8vo is further distinguishable by the reading of the 4th line: The Figures engraven on Wood by T. Bewick. The size of imperial 8vo (Roscoe 15a) is given as 27.0-27.3 × 17.3 cm. Roscoe found no untrimmed copy of the thin royal 8vo.

- 265a. 1805. A / history / of / British birds. / The figures engraved on wood by T. Bewick. / Vol. I. / Containing the / history and description of land birds. / [Vign.] / Newcastle: / Printed by Edward Walker, for T. Bewick: Sold by him, and / Longman and Rees, London. / 1805.

Imperial 8vo (25.2 × 16.5 cm). Pp. [i-iii] iv-vi [vii] viii-xxviii [xxix] xxx-xxxiv [xxxv] xxxvi-xxxviii, [1] 2-346; 118 figs. of birds, 10 text-figs. (illustrating technical terms), 106 vigns., tail-pieces, etc. (many ornith.); 234 wood-engr. illustrs. in all. Watermark: Smith 1802.

Sigs.—a-d<sup>4</sup> e<sup>4</sup>(-e<sup>4</sup>) B-2X<sup>4</sup> 2Y1(=e<sup>4</sup>?); 192 leaves.

*Contents*—Title, a1<sup>r</sup> (verso blank); pref. (dated Newcastle upon Tyne, September, 1797), a2-a3<sup>v</sup> (pp. iii-vi); introd., a4-d2<sup>v</sup> (pp. vii-xxviii); explanation of technical terms, d3-e1<sup>v</sup> (pp. xxix-xxxiv); conts., e2-e3<sup>v</sup> (pp. xxxv-xxxviii); text, pp. 1-346, essentially that of earlier editions but substantially revised. The figure of the Linnet is added at p. 176 and the account of technical terms is new. At least 19 of the descriptions of species (140 in all) have been revised, vigns. have been added, and other changes made as detailed by Roscoe (p. 77).

Roscoe 18a, giving size as 27.1 × 17.0 cm.

265b. 1805. **A / history / of / British birds. /** [*As No. 265a, 9 lines*]

Royal 8vo (23.7 × 14.5 cm). Pagination, collation, and contents as No. 264a except that page 323 is numbered 233. Watermark: 1804 IIS

Roscoe 18b, giving size as 25.0 × 15.2 cm.

265c. 1805. **History / of / British birds. /** [*As No. 265a, 8 lines*] / [Price 12s. in Boards.] / 1804.

Demy 8vo (21 × 13.1 cm). Pagination, collation, and contents as No. 264a except that page 323 is numbered 233. Watermark: A

1803

Inscription: For Oliver Locker-Lampson from his affectionate father F. Locker-Lampson, Christmas, 1890.

Roscoe 18c, no untrimmed copy seen.

The third edition (often cited as second edition) of volume I ("land birds") of the *History of British birds*. For discussion of the confusion of editions, see No. 263 above.

Demy copies of this edition, although dated 1804, did not appear until 1805. They can be easily distinguished from the imperial and royal 8vo issues by the appearance of the price on the title-page as well as by the absence of the initial article. Imperial and royal 8vo issues, unless both are untrimmed, can be distinguished only by watermark. The Ellis imperial 8vo copy is in a corrected state, page 323 being numbered 323 rather than the 233 cited by Roscoe.

In 1809, a fourth edition of the "land birds" was published as part one of a single volume containing the third edition of the "water birds" as part two (Roscoe, pp. 84-89). This edition is not represented in the Ellis Collection. Roscoe states that revisions were not extensive.

BMNH, I:158; Roscoe 18.

266. 1814-16. **History / of / British birds. /** The figures engraved on wood by T. Bewick. / Vol. I. / Containing the / history and description of land birds. / [*Vign.*] / Newcastle: / Printed by Edward Walker, for T. Bewick: Sold by him, and / Longman and Rees London. / 1804.

8vo (24.2 × 15.2 cm). Pp. [i-iii] iv-vi [vii] viii-xxviii [xxix] xxx-xxxiv [xxxv] xxxvi-xxxviii [39] 40-243 442 245-386; 120 figs. of birds, 10 text-figs. (illustrating technical terms), 107 vigns., tail-pieces, etc.; 237 wood-engr. illustrs. in all.

*Sigs.*—π1 a-d<sup>4</sup> E<sup>2</sup> F-3B<sup>4</sup> 3C<sup>2</sup>; 193 leaves.

*Contents*—Title, π1<sup>r</sup> (verso blank); pref., a1-a2<sup>v</sup> (pp. iii-vi); introd., a3-d1<sup>v</sup> (pp. vii-xxviii); explanation of technical terms, d2-d4<sup>v</sup> (pp. xxix-xxxiv); conts., E1-E2<sup>v</sup> (pp. xxxv-xxxviii); text, F1-3C2<sup>v</sup> (pp. 39-386). Text essentially the same as that of No. 265. A second figure and description of the Pied Flycatcher (p. 243) and the figure and description of the Peregrine Falcon (p. 72) appear for the first time, with other smaller differences (see Roscoe, p. 91).

The fifth edition of volume I ("land birds") of the *History of British birds*. Although the title-page is dated 1804, this edition was actually published between 1814 (the watermark date of some of the paper) and 1816 (the date of the 6th edition). For a full discussion of the evidence, see Roscoe, pp. 91-94, where this edition was first competently considered. It seems likely that this somewhat deceptive edition was published to pair with unsold copies of the 1805 edition of the "water birds."

A copy of the second edition of the *Supplement* (1822, No. 270) to the land birds has been bound with the Ellis copy of the fifth edition. The advertisement for the *Quadrupeds* and *Aesop's Fables* from the 1822 *Supplement* has been inserted immediately following the title-page of the fifth edition.

*Further editions of the "land birds"*—Following this disguised fifth edition, Bewick published sixth, seventh, and eighth editions in 1816, 1821, and 1826—the last being the final edition to appear within his lifetime.

The sixth edition (1816) is a revision of the fourth (1809) and may be readily identified by its date and by the presence of only 10 lines in the text of the "Gentil-Falcon" at p. 70 as well as by the presence of a date in the description of the Peregrine Falcon (Roscoe, pp. 94-96). The seventh edition (1821) appeared with the first edition of the *Supplement* to land birds (No. 269) as an integral part, so that a number of new descriptions and figures were added, bringing the total to 157 descriptions and 140 figures (Roscoe, p. 100). The eighth edition (1826) is the most extensively revised of all, and the best, containing 166 descriptions and 157 figures (Roscoe, p. 122). It is described on the title-page as being "by" Thomas Bewick, being the first edition so identified.

Roscoe 21 (pp. 89-94).

- 267a. 1804. *History / of / British birds.* / The figures engraved on wood by T. Bewick. / Vol. II. / Containing the / history and description of **water birds.** / [Vign.] / Newcastle: / Printed by Edward Walker, for T. Bewick: Sold by him, and / Longman and Rees, London. / [Price II. 4s. in Boards.] / 1804.

Imperial 8vo (22.5 × 13.6 cm). Pp. [i-iii] iv [v] vi-xvi [xvii] xviii-xx, [1] 2-400; 101 figs. of birds, 136 vigns. (including title), tail-pieces, etc.; 237 wood-engr. illustrs. in all.

*Sigs.*—a<sup>2</sup> b-c<sup>4</sup> A-3D<sup>4</sup>; 210 leaves.

*Contents*—Title, a1<sup>r</sup> (verso blank); "Advertisement" (signed Thomas Bewick, and dated Newcastle upon Tyne, July 3, 1804), a2<sup>r-v</sup> (pp. iii-iv); introd., b1-c2<sup>v</sup> (pp. v-xvi); conts., c3-c4<sup>v</sup> (pp. xvii-xx); text, A1-3D4<sup>v</sup> (pp. 1-400), giving non-technical descriptions and popularly written accounts of the habits of 144 species or supposed species of British "water birds." The text is by Bewick, with "literary corrections" by the Reverend Mr. Henry Cotes. The extent of these corrections is unknown and disputed. The text, as Roscoe's variant A, is based largely upon the writings of Pennant, Latham, and Willughby and Ray, modified and supplemented by the author's own experience.

The Ellis copy of the imperial 8vo issue is badly trimmed, imperfect (wanting pages 31-32, 45-46, 93-94, 165-166, 227-230, as well as having pages 173-174 re-

placed by a leaf from another issue on wove paper), and extremely dirty and worn. These deficiencies are easily forgiven since the hand which produced the wear and left its fingerprints in printer's ink on many pages seems to have been that of Thomas Bewick. This copy is that described by Hugo as volume two of his No. 100, and identified by him as Bewick's. It bears John Gray Bell's label, the Hugo plate, and an inscription by Lord Lilford indicating that he bought it at the Hugo sale of Aug. 8, 1877 (lot 232, £3.3.—). Pages 7, 10, 14, 19, 22, 128, 142, 149, 193 and 197, bear Bewick's notes for the changes to be made for the second edition (1805, No. 268). There are two pencil sketches (man on p. 293, swan's head and neck on p. 225) which may be Bewick's. This copy is on laid paper rather than the thick wove paper described by Roscoe. Bound with this is a copy of the *Supplement* to the water birds, second edition (1822, No. 270).

Roscoe 17a, giving size as 27.0 × 18.0 cm.

- 267b. 1804. *History / of / British birds.* / [*As No. 267a, 8 lines*] / [Price 15s. in Boards.] / 1804.

Thin royal 8vo (23.3 × 14.1 cm). Pagination, collation and contents as No. 267a. Text as Roscoe's variant A.

Roscoe 17c, giving size as 25.3 × 15.8 cm.

- 267c. 1804. *History / of / British birds.* / [*As No. 267a, 8 lines*] / [Price 12s. in Boards.] / 1804.

Demy 8vo (21.1 × 13 cm). Pagination, collation and contents as No. 267a. Text as Roscoe's variant A.

Inscription: For Oliver Locker-Lampson from his affectionate father, F. Locker-Lampson, Christmas, 1890.

Roscoe 17d, giving size as 22.5 × 13.8 cm.

- 267d. 1804. *History / of / British birds.* / [*As No. 267c, 10 lines*]

Demy 8vo (20.7 × 12.7 cm). Pagination, collation and contents as No. 267c. Text as Roscoe's variant E.

This copy, which formerly belonged to David Croal Thomson, is interleaved, with india-paper proofs of the figures of birds mounted facing the appropriate pages, and additional proofs from the *Supplement* to the water birds (1821, No. 270) and other sources.

Roscoe 17d.

The first edition of volume II ("water birds") of the *History of British birds*, volume I of which ("land birds," by Bewick and Beilby) was first published in 1797 (No. 263) with a second edition in 1798 (No. 264). A first edition set of the whole work should consist of the 1797 "land birds" and the 1804 "water birds." As mentioned earlier, the engravings are famous for their beauty and fidelity to nature; of the text, Newton wrote: ". . . it may be said that it is respectable, but no more." The first edition appeared on thick royal 8vo paper as well

as the three sizes described above; Roscoe gives the size of the thick royal as  $24.9 \times 15.4$  cm and cites the price shown on the title-page as "[Price 18s. in Boards.]" He distinguishes six variants in printing, based upon the state of certain vignettes as well as two variations of text. With nine copies (one imperial, four thin royal, and four demy) in hand, it has proved impossible to apply these distinctions. There appear to be more states of the vignettes than suggested by Roscoe and they appear in combinations impossible to reconcile with his variants A through F, therefore only the text variants have been mentioned in the descriptions above.

- 268a. 1805. A / history / of / British birds. / The figures engraved on wood by T. Bewick. / Vol. II. / Containing the / history and description of water birds. / [Vign.] / Newcastle: / Printed by Edward Walker, for T. Bewick: Sold by him, and / Longman and Rees, London. / 1805.

Imperial 8vo ( $25.3 \times 16.4$  cm). Pp. [i-iii] iv-vi [vii] viii-xviii [xix] xx-xxii, [1] 2-400; 102 figs. of birds, 133 vigns., tail-pieces, etc. (many ornith.); 235 wood-engr. illustrs. in all. Watermark: Smith 1802.

Sigs.— $\pi 1$  a<sup>2</sup> b-c<sup>4</sup> A-3D<sup>4</sup>; 211 leaves.

Contents—Title,  $\pi 1$  (verso blank); pref. (dated December, 1805), a1-a2<sup>v</sup> (pp. iii-vi); introd., b1-c2<sup>v</sup> (pp. vii-xviii); conts., c3-c4<sup>v</sup> (pp. xix-xxii); text, A1-3D4<sup>v</sup> (pp. 1-400), essentially that of the first edition, 1804 (No. 267). The figure of the Swan Goose has been added, increasing the total number of figures to 102, and the text of that species has been amended at p. 281. A new preface has been substituted for the "Advertisement" of the first edition and a few changes in detail are apparent in some of the cuts.

Roscoe 19a, giving size as  $27.0 \times 17.1$  cm.

- 268b. 1805. A / history / of / British birds. / [As No. 268a, 10 lines]

Royal 8vo ( $23.7 \times 14.7$ ). Pagination, collation, and contents as No. 268a. Watermark: 1804 IIS.

Roscoe 19b, giving size as  $25.3 \times 15.0$  cm.

The second edition of vol. II ("*water birds*") of the *History of British birds*, first published in 1804 (No. 267).

Not counting editions published after Bewick's death (see No. 271), only the first and second editions are in the Ellis Collection. However, the work flourished, further editions of vol. II appearing in 1809 (as part of a single volume containing also the fourth edition of the "*land birds*"), 1816, 1821, and 1826. The number of descriptions and figures of birds in these will serve to identify them (see Roscoe for further detail). Respectively, these are: 144 descriptions, 102 figs. (1809; 3rd edit.); 144, 103 (1816; 4th); 162, 121, including the "Supplement to the water birds" (No. 269) as an integral part (1821; 5th); 183, 157 (1826; 6th). The last, thoroughly revised edition of the "*water birds*" and its companion volume (8th edit., "*land birds*") of the same date are the best editions and represent the culmination of Bewick's efforts; on their title-pages, for the first time, the work is des-

cribed as being "by" Thomas Bewick, rather than with "figures engraved . . . by T. Bewick."

BMNH, I:158; Roscoe, 19 (pp. 81-84, descr.).

269. 1821. A / supplement / to the / history / of / British birds. / The figures engraved on wood by T. Bewick. / Part I [II]. / Containing the / history and description of land [water] birds. / [Vign.: eagle and fawn (Part I), spaniel and duck (Part II)] / Newcastle: / Printed by Edward Walker, Pilgrim-Street, / for T. Bewick: Sold by him and E. Charnley, Newcastle; / and Longman and Co., London. / 1821.

Demy 8vo (22.8 × 14.2 cm, untrimmed). Part I: pp. [2] [1] 2-46 [47-48]; 20 wood-engr. figs. of birds, 21 wood-engr. vigns., tail-pieces, etc. Part II: pp. [2] [1] 2-43 [44]; 18 wood-engr. figs. of birds, 18 wood-engr. vigns., tail-pieces, etc.

Sigs.—Part I: π1 B-G<sup>4</sup>; 25 leaves. Part II: π1 B-F<sup>4</sup> G<sup>2</sup>; 23 leaves.

Contents—Part I: title, π1 (verso blank); text, B-G3<sup>v</sup> (pp. 1-46), containing descriptions of the appearance and habits of 22 British "land birds"; conts., G4<sup>r</sup> (p. 47); advt. for the *General history of quadrupeds* and *The fables of Aesop*, G4<sup>v</sup> (p. 48). Part II: title, π1 (verso blank); text, B-G2<sup>r</sup> (pp. 1-43), containing descriptions of 24 British "water birds"; conts., G2<sup>v</sup> (p. 44).

These supplements appeared for the first time as integral parts of the 1821 editions of the *History of British birds* (7th edition of the land birds, 5th edition of the water birds). They were also issued together in a separate volume in boards (as described here), in imperial, royal, and demy octavo sizes, from the same setting of type and with the same illustrations as in their composite appearance with the *History*. They may also have been issued as two separate items. The accounts of birds in the supplements were incorporated into subsequent editions of the *History*.

Roscoe 25/27c.

- 270a. 1822. A / supplement / to the / history / of / British birds. / [As No. 269, 10 lines]

Royal 8vo (24.6 × 15.5 cm, untrimmed). Part I: pp. [1-3] 4-50 [51-54]; 21 wood-engr. figs. of birds, 22 wood-engr. vigns. and tail-pieces. Part II: pp. [1-3] 4-49 [50]; 21 wood-engr. figs. of birds, 19 wood-engr. vigns. and tail-pieces.

Sigs.—Part I: π1 B-G<sup>4</sup> H<sup>2</sup>; 27 leaves. Part II: π1 B-G<sup>4</sup>; 25 leaves. H2 bound to follow G4 of Part II.

Contents—Part I: title, π1 (verso blank); text, B-G4<sup>v</sup> (pp. 3-50), containing accounts of the appearance and habits of 23 British "land birds" as in the edition of 1821 (No. 269) with minor revisions and the addition of a figure and description of the Green-headed Bunting<sup>1</sup>; conts., H1 (verso blank); advt., H2 (verso blank). Part II: title, π1 (verso blank); text, B-G4<sup>r</sup> (pp. 3-49), with accounts of 26 British

<sup>1</sup>This and the similar additions to the "water birds" supplement are said (Roscoe, p. 112) to have been issued separately in 1821 as the *Addenda to the history of British birds*.

"water birds" as in the edition of 1821 (No. 269), with numerous revisions and additions including figures of the Iceland Gull, Lesser Black-backed Gull, and Arctic Gull; conts., G<sup>4r</sup>. Advertisement leaf (H2) from Part I bound at end of Part II.

Roscoe 29-30b.

**270b.** 1822. A / supplement / to the / history / of / British birds. / [As No. 269, 10 lines]

Demy 8vo (22.8 × 14.2 cm, untrimmed). Pagination, collation, and contents as No. 270a.

In original boards.

Roscoe 29-30c.

The second edition of the two supplements to the *History of British birds*. Although the title-pages are the same as those of the first edition (No. 269), this materially revised edition was not published until October, 1822 (Roscoe, p. 118). Both editions of the supplements may be found bound with any edition of the *History*. In the Ellis Collection, the "land birds" supplement is to be found with the fifth edition of the "land birds" (No. 266) and the "water birds" supplement with the imperial 8vo copy of the first edition of the "water birds" (No. 267a).

Zimmer, 58 (erroneously identified as first edition).

**271.** 1847. A / history / of / British birds. / By Thomas Bewick. / Vol. I [II]. / Containing the / history and description / of / land [water] birds. / [Vign.] / Newcastle: / Printed by J. Blackwell and Co., / for R. E. Bewick: Sold by him, Longman & Co., London; / and all booksellers. / 1847.

2 vols., 8vo (22.0 × 14.2 cm, untrimmed).

Vol. I: pp. [i-ii 2 iii] iv-vi [vii] viii-xxviii [xxix] xxx-xxxiv [xxxv-xxxvi] xxxvii-xxxix [xl], <sup>2</sup>[i] ii-xxxvi, [1] 2-374 [375-376]; 157 figs. of birds, 11 text-figs., 157 vigns., tail-pieces, etc. (all wood-engrs.).

Vol. II: pp. [i-iii] iv-vi [vii] viii-xviii [xix] xx-xxiii [xxiv], <sup>2</sup>[i] ii-xi [xii] [1] 2-406 [407-408], [2]; 163 figs. of birds, 2 text-figs., 156 vigns. (including three multiple figs.), tail-pieces, etc. (all wood-engrs.).

Sigs.—Vol. I: [a]<sup>4</sup>(a1+χ1) b-e<sup>4</sup> a-d<sup>4</sup> e<sup>2</sup> A-3A<sup>4</sup> (D unsigned); 227 leaves.  
Vol. II: [a]<sup>4</sup> b-c<sup>4</sup> a<sup>4</sup> b<sup>2</sup> A-3E<sup>4</sup> χ1; 223 leaves.

Contents—Vol. I: title, a1 (verso blank); "Advertisement" concerning adoption of Temminck's classification system, χ1<sup>r</sup> (verso blank); pref., a2-a3<sup>v</sup> (pp. iii-vi); introd., a4-d2<sup>r</sup> (pp. vii-xxviii); explanation of technical terms, d3-e2<sup>r</sup> (pp. xxix-xxxv); conts., e2<sup>v</sup>-e4<sup>r</sup> (pp. xxxvi-xxxix); synopsis of British birds, a1-e2<sup>v</sup> (pp. <sup>2</sup>i-xii); text, A1-3A3<sup>v</sup> (pp. 1-374), containing 159 descriptions of British "land birds," with more than one account of some species; printer's imprint, 3A4<sup>r</sup> (p. 375). Vol. II: title, a1<sup>r</sup> (verso blank); pref., a2-a3<sup>v</sup> (pp. iii-vi); introd., a4-c1<sup>v</sup> (pp. vii-xviii); conts., c2-c4<sup>r</sup> (pp. xix-xxiii); "Foreign birds," 14 figs. with legends but no other text, a1-b2<sup>r</sup> (pp. <sup>2</sup>i-xi); text, A1-3E3<sup>v</sup> (pp. 1-406); vign., 3E4<sup>r</sup> (p. 407); printer's imprint, 3E4<sup>v</sup> (p. 408); advt. for works of Bewick, χ1<sup>r</sup>.

The second of three editions published after Bewick's death, and considered by Mullens and Swann to be the best edition of the whole work. The text is as in earlier editions, expanded and revised by Bewick and by others after his death. The work contains the various figures and descriptions added by Bewick in the supplements of 1821 and 1822 (Nos. 269 and 170), and in the addenda to the editions of 1826. Included also are several additional vignettes, originally intended for a never-completed work to have been entitled *A history of British fishes*.

The first posthumous edition (1832) and this edition were published under the supervision of Robert E. Bewick. The final, or so-called Quaritch Memorial edition of Bewick's collected works, including the "birds," appeared in 1885-1887. Thus the "land birds" survived 11 editions (8 before 1828, this edition being the 10th) and the "water birds" 9 (6 before 1828, this being the 8th). The classification used has been revised for this edition with the assistance of John Hancock (who is also responsible for the synopsis in Vol. I) to follow the system of Temminck.

Mullens and Swann, 63-64; Nissen, 95; Wood, 237.

272. 1800. Figures / of / British land birds, / engraved on wood by T. Bewick. / To which are added, a few / foreign birds, / with their vulgar and scientific names. / Vol. I. / [*Vign.*] / Newcastle upon Tyne: / Printed by S. Hodgson, for R. Beilby and T. Bewick; Sold by / them, and by J. Mawman, Poultry, London. / 1800.

8vo (25.1 × 16 cm, untrimmed). Ff. [2] 1-133 [134]; 131 wood-engr. figs. of birds, 119 wood-engr. vigns. and tail-pieces.

*Sigs.*—π<sup>a</sup> A-Q<sup>b</sup> R<sup>b</sup>; 136 leaves.

*Contents*—Title, π1; editorial note, π2; figures of British land birds, A1-P7 (ff. 1-119); figures of foreign land birds, P8-R5 (ff. 120-133); vign., R6 (f. 134). Printed on the recto of each leaf only.

The figures, with identifying captions and running titles but no further text, are those of Volume I of the *History of British birds* (No. 263) with the addition of fourteen "foreign birds." This is the first appearance of the foreign birds, which were engraved for a projected but later abandoned *General history of birds*. No formal issue of the figures of Volume II is known to have been made before 1817 when an edition of figures from both volumes may have been issued (see Roscoe, pp. 136-138).

Various informal collections of the figures, either with identifying captions or with no letterpress at all, are known. There are two of these in the Ellis Collection. One (formerly belonging to David Croal Thomson) is composed of two volumes in boards containing the figures and vignettes from the 1805 editions printed on wove paper and including identifying captions and perceptible blind impressions of further text. The other consists of three morocco-bound volumes labelled "British land birds," "British water birds," (both dated 1826), and "Quadrupeds" (dated 1820), and contains india-paper proofs of the figures of birds and animals.

Nissen, 96; Roscoe, 16; Wood, 236.

273. *ca.* 1809. A cabinet / of / natural history, / containing pretty pictures / of / birds, animals, fishes, / reptiles, serpents & insects. / [*Two vigns., side by side, of dog and snipe, with the words engraved as part of the figs.*] / Embellished with Engravings on Wood, / by Thomas Bewick of Newcastle. / Alnwick: / printed at the Apollo Press, / by and for W. Davison. / 1809.

Single leaf (13.2 × 8.7 cm).

This leaf (found tipped in before leaf A1 in a copy of *A natural history of British quadrupeds*) and the following (No. 274), under which both are discussed, were evidently intended as covering titles to the set of small natural histories individually described below.

274. *ca.* 1809. A natural history / of / British quadrupeds, / foreign quadrupeds, / British birds, water birds, / foreign birds, fishes, / reptiles, serpents & insects. / [*Vign. of a small passerine bird*] / Embellished with 247 Engravings on Wood, / by Thomas Bewick of Newcastle. / Alnwick; / printed at the Apollo Press, / by and for W. Davison. / 1809.

Single leaf (13.3 × 8.3 cm).

This leaf (found laid into a copy of Bewick's *A natural history of British quadrupeds*) and the leaf described above (No. 273) were clearly intended as covering titles for the collection, partly described below, of seven small tracts on natural history for children. Although these were published separately in green or brown paper covers, they are often found in various combinations, which sometimes include other little works of similar origin, such as *Day, a pastoral*, and *The history of Crazy Jane*. The bibliographic literature displays some confusion concerning the dating of these works. Mullens and Swann (p. 64) and Wood (p. 237) perhaps followed Hugo (*The Bewick Collector*, London, 1866, p. 112) in dating them "1815" (Hugo says "about 1814"). However, they are listed collectively under date of 1809 by David Croal Thomson (*In Stephens, Notes . . . on . . . woodcuts by Thomas Bewick*, London, 1881, p. 29, and in his own *The life and works of Thomas Bewick*, London, 1882, p. 220), who attributes their publication to Davison at Alnwick and gives the correct total of 247 cuts. The correctness of the latter date is suggested by its appearance on both the covering titles transcribed, so far as I know for the first time, herewith. No. 274 also bears the single watermarked numeral 9, possibly a part of 1809. If the little works had all appeared by or in that year, it is evident that they were reprinted, since those in the Ellis Collection are watermarked 1816 in most cases and 1819 in one.

The evidence is inconclusive but it is perhaps best to enter all the works, if tentatively, as of *ca.* 1809. It is not unlikely that several printings or editions were published, probably with little or no revision, as demand required.

If they are not by Bewick, the cuts evidently came from his workshop, and some may have been finished by him (Thomson, *loc. cit.*; Hugo, *op. cit.*, p. 111). Figured are several animals not elsewhere depicted by Bewick. According to their wrappers, *Day, a pastoral*, and *The history of Crazy Jane* were sold for sixpence each; presumably the others sold for about the same.

275. *ca.* 1809. A / natural history / of / British birds. / Thirty-five engravings on wood. / [*Vign. of wren.*] / Alnwick: / printed and sold wholesale and retail / by W. Davison.

18mo (13.2 × 8.7 cm). Pp. [1-3] 4-36; title-vign. and 34 wood-engr. figs. of birds. Watermark: J A 1816.

*Sigs.*—A-C<sup>6</sup>; 18 leaves.

*Contents*—Title, p. 1; p. 2 blank; text, pp. 3-36, with 34 brief, popularly-written descriptions of birds accompanying the figs.

For dating and further comment see No. 274. Mullens and Swann erred in calling the cuts "selections" from Bewick's "History of birds" (No. 263, etc.). They are in fact different, smaller, and greatly inferior to the illustrations of that work.

Mullens and Swann, 64; Wood, 237.

276. *ca.* 1809. A / natural history / of / foreign birds. / thirty-four engravings on wood. / [*Vign.*] / Alnwick: / printed and sold wholesale and retail / by W. Davison.

18mo (13.7 × 8.7 cm). Pp. [1-3] 4-36; title-vign. and 33 wood-engr. figs. of birds. Watermark: J A 1816.

*Sigs.*—A-C<sup>6</sup>; 18 leaves.

*Contents*—Title, p. 1; p. 2 blank; text, pp. 3-36, with 33 short, popular descriptions of birds accompanying the figs.

For dating etc. see No. 274. One of three copies in the Ellis Collection has the cuts crudely colored, probably by a former owner. Another copy is misbound in one of two variant covers of the *Natural history of water birds*, a companion pamphlet (No. 277).

Wood, 237.

277. *ca.* 1809. A / natural history / of / water birds. / Thirty-four engravings on wood. / [*Vign.*] / Alnwick: / printed and sold wholesale and retail / by W. Davison.

18mo (13.9 × 8.9 cm). Pp. [1-3] 4-36; title-vign. and 33 wood-engr. figs. of birds. Watermark: J A 1816.

*Sigs.*—A-C<sup>6</sup>; 18 leaves.

*Contents*—Title, p. 1; p. 2 blank; pp. 3-36, with 33 brief, popular descriptions of birds.

For discussion see No. 274. One of several copies in the Ellis Collection has some of the cuts crudely colored, probably by a former owner. The cover vignette is a rose in one example, a bunch of grapes in the others.

Wood, 237.

278. 1816(?). *The / youngster's diary; / or, / Youth's Remembrancer / of / natural events, / for every month in the year. / [Vign.] / Alnwick. / printed and sold wholesale and retail / by W. Davison.*

18mo (13.5 × 8.1 cm). Pp. [1-5] 6-36; front., title-vign. and 31 wood engr. figs. 11 ornith.). Watermark: J A 1816.

*Sigs.*—A-C<sup>6</sup>; 18 leaves.

*Contents*—Front., A1<sup>r</sup> (recto blank); title, A2<sup>r</sup> (verso blank); text, A3-C6<sup>v</sup> (pp. 5-36), 32 poems, descriptive of accompanying figs.

One of a series of publications illustrated by Bewick or craftsmen associated with him and more or less contemporaneous with the small natural histories described above (Nos. 275-277). Most of the cuts of birds are from the same blocks as those in *A natural history of British birds* (No. 275). The present copy, in original paper wrappers, is bound with other works of the same sort, including *Day, a pastoral*, Sarah Wilkinson's *The history of Crazy Jane*, and others here listed.

279. 1862. *A / memoir / of / Thomas Bewick, / written by himself. / Embellished by / numerous wood engravings, / designed and engraved by the author for a work on / British fishes, and never before published. / [Vign.] / Newcastle-on-Tyne: / printed by Robert Ward, Dean Street, / for Jane Bewick, Gateshead. / London: / Longman, Green, Longman, and Roberts, / and sold by all book-sellers. / 1862. / [The Right of Translation is Reserved.]*

8vo (22.7 × 14.2 cm). Pp. i-xix [xx], 1-344; front. (p. ii), 2 plates, 52 text-figs., vigns., tail-pieces, etc. (all wood-engrs.).

*Contents*—Tide, p. iii; quot.; pref. (signed J. B.; dated Gateshead-on-Tyne, May, 1862); note (signed T. B.); conts.; text, pp. 1-288, chapters I-XXVIII, with postscript (headed "Final") on p. 286 and a memorial cut on p. 287 (p. 288 is blank); appendix, pp. 289-344, containing 16 illustrs. of British fishes not before published, a fable entitled "The Alarm," an essay headed "Application," a further essay entitled "Prints by means of a series of wood blocks," biographical material on John Bewick, and miscellaneous correspondence.

The first edition of Bewick's autobiographical *Memoir*, published 34 years after the author's death under the editorship of his daughter Jane. The latter's editing resulted in the deletion of considerable material and some alterations in style (see the fuller edit. of 1887, No. 280). The first part of the *Memoir* provides insight into Bewick's life and attitudes toward his work, and reveals his views on natural history and art, all pertinent here. Much of the book, however, is concerned with his philosophy in spheres outside the scope of the present catalogue.

BMNH, I:158; see also Weekley, Montague, *Thomas Bewick*, London, Oxford Univ. Press, 1953, pp. 190-192.

280. 1887. *A / memoir / of / Thomas Bewick, / written by himself. / Embellished by / numerous wood engravings, / designed by the author for a work on / British fishes. / A new edition, / prefaced and annotated by / Austin Dobson, / Author*

of "Thomas Bewick and his Pupils." / [*Vign.*] / Newcastle-upon-Tyne: / printed by R. Ward and Sons, for / Bernard Quaritch, 15 Piccadilly, London. / 1887. / [The Right of Translation is Reserved.]

8vo (25.7 × 16.0 cm, untrimmed). Pp. i-xxxiii [xxxiv-xxxvi], 1-393 [394-396]; front. (p. iv), 54 illustrs., mainly in text (vigns., tail-pieces, etc.; all from wood engrs.).

*Contents*—1 blank leaf; front; title; quot. (as in edit. of 1862); editor's pref.; pref. to 1st edit.; note (signed T. B.); conts.; sectional half-title, p. [xxxv]; text, pp. 1-318, chapters I-XXVIII; appendix, pp. 319-393; printer's imprint, p. 395.

The second edition of Bewick's autobiographical *Memoir* (first edit., 1862, No. 279), and part of the so-called Quaritch Memorial edition of Bewick's major works (5 vols.; quadrupeds, land birds, water birds, Aesop's fables, memoir). It was evidently unknown to Selwyn Image, who wrote the preface to the third edition, 1924 (No. 281). The text is roughly similar to that of the first edition, but a considerable portion of the manuscript there deleted by Jane Bewick was restored by the present editor, which, with correspondence added to the appendix, makes this the most complete edition.

Wood, 237.

281. 1924. *Memoir of Thomas / Bewick* written by himself / 1822-1828 [*Orn.*] with an introduction by / Selwyn Image, / late Slade Professor of Fine / Art, Oxford Sixty-one illustrations / [*Vign.*] / London / John Lane The Bodley Head Limited.

8vo (23.0 × 15.9 cm). Pp. i-xxxii [xxxiii], 1-274; engr. front. (portr. of Bewick), 62 text-figs., vigns., tail-pieces, etc. (facsimiles of wood engrs.).

*Contents*—Half-title; title (printer's impr., dated 1924, on v.); introd. (by Image; dated July 8, 1924); "appreciation" (by C. R. Leslie); conts.; list of illustrs.; divisional half-title; text, pp. 3-246, in chapters I-XXVIII, essentially as in first edit.; divisional half-title; 32 illustrs. (pp. 247-274) from Bewick's "Quadrupeds" and his "History of British birds" (see No. 263).

The third edition, essentially duplicating the text of the first (No. 279), and less extensive than the second (No. 280). Enlarged by modern photographic methods, the added cuts of the birds appearing here are well reproduced. The appendix of earlier editions is lacking.

BICKERTON, WILLIAM (1864- )

282. 1912. *The home-life / of the / terns / or / sea swallows /* photographed and described / by / W. Bickerton, F.Z.S., M.B.O.U. / Vice-President of The Hertfordshire Natural History Society and Field Club. / With thirty-two mounted plates / London / Witherby & Co. 326 High Holborn W. C. / MCMXII.

8vo (25.4 × 19.0 cm, untrimmed). Pp. 1-88 [4]; photogr. plates 1-32 (37 photos. in half-tone, mounted on both sides of 16 leaves of brown paper).

*Contents*—Half-title; title (advt. on v.); ded.; prefatory note (dated Aug. 1912); conts.; list of plates; text, pp. 13-88, in chapters I-VII, the first chapter being

introductory and the remainder reporting competently and in some detail on the life histories of several species of terns as observed at various localities in Great Britain.

A useful and thorough work for its times. The book is part of the "Bird-lover's home-life series," and in the same format as others of the same (Abbott on the Osprey, No. 3; MacPherson on the Golden Eagle; Beetham on herons, No. 215).

Mullens and Swann, 64-65; Wood, 238; Zimmer, 58. Reviewed: *Auk*, 1913: 125-126 (Witmer Stone).

283. 1927. *The baby bird and / its problems / by / W. Bickerton, F.Z.S., F.R.P.S. / Member of the British Ornithologists' Union / with ninety-six illustrations / [Orn.] / Methuen & Co. Ltd. / 36 Essex Street W. C. / London.*

(25.1 × 18.8 cm, untrimmed). Pp. i-xvi, 1-135 [136]; fotogr. plate I (front), 38 fotogr. plates (printed both sides of 19 leaves).

*Contents*—Half-title; title ("First published in 1927" on verso); ded.; pref. (signed W. B., dated Nov., 1927); conts.; list of illustrs.; text, pp. 1-128, in chapters I-XIII, being a popularly-written discussion of the biology of nesting birds with emphasis on the young, index, pp. 129-135.

A readable account of the subject for beginner and layman. Bookplate: P. Z. Cox.

#### BICKNELL, EUGENE PINTARD (1859-1925)

284. 1882. *A Review of the Summer Birds / of a part of / The Catskill Mountains, / with prefatory remarks on / the faunal and floral features of the region. / By / Eugene Pintard Bicknell.*

8vo (28.0 × 17.9 cm). Pp. [2] 115-168 (repage 1-56, including title).

*Contents*—Title; text, with pp. 3-27 (original pp. 117-139) containing introductory material describing the area, and pp. 28-56 (original pp. 140-168) containing an annotated list of birds of the area.

A faunal list treating the breeding species of the southern part of the Catskill Mountains. The present copy is repaged separate from the *Transactions* of the Linnean Society of New York inscribed "Compliments of the author," and with specially printed title-page, the extra copies having been distributed, according to a note on the original wrappers, in December, 1882. The first page of the text is caption-titled (p. 3; p. 115 in orig.): A review of the summer birds of a part of / the Catskill Mountains, with prefatory / remarks on the faunal and floral fea- / tures of the region.

#### THE BIRD-BOOK

285. 1844. *The / bird-book. / [Vign.] / Philadelphia: / American Sunday-School Union, / No. 316 Chestnut Street. / New York: No. 147 Nassau St. . . . . Boston: No. 9 Cornhill. / Louisville: No. 103 Fourth St.*

12mo (15.5 × 10.3 cm). Pp. [1-4] 5-144; engr. front., 3 plates, tailpieces.

*Sigs.*—1-12<sup>6</sup>.

*Contents*—1 blank leaf; front.; title; verso of title, "Entered according to Act of Congress, in the year 1844 . . ."; pref.; conts.; text, pp. 9-144.

The preface states that the collection of poems, stories and descriptions "embraces several pieces, which have been selected with care from some of the most approved sources, and others which have been prepared expressly for this volume." The sources seem to have been chosen for their ability to moralize, rather than for their scientific accuracy, however, as even the most straightforward descriptive passages contain many dubious accounts of a species' strength, character, and proclivities toward family life.

Not listed in any of the ornithological or children's bibliographies. The Library of Congress has an edition of the same date, but with 152 pp.

#### BIRDS NESTING CALENDAR

286. *Birds Nesting Calendar* / for use of Observers / George Over Limited, Rugby / 1924.

(16.5 × 10.5 cm). Pp. 1-12.

*Contents*—Title; advt.; pref.; text, pp. 5-12, composed of lists of birds arranged by the month in which their eggs may be found. Inter-leaved with blanks.

The preface states that the work has been compiled for the use of egg collectors from *The Birds of the British Isles and their Eggs*, by T. A. Coward.

#### BLAAUW, FRANZ ERNST (1860-1936)

287. 1897. *A / monograph / of / the cranes / by / F. E. Blaauw, / Corresponding Member of the Zoological Society of London [Etc., 2 lines]. / Illustrated by 22 Coloured Plates (the greater number drawn under the immediate superintendence of / the late Dr. G. F. Westerman) by Heinrich Leutemann and J. G. Keulemans. / Leiden and London: / E. J. Brill, R. H. Porter, / (Oude Rijn, 33a). (18, Princes Street, Cavendish Square, W.). / 1897.*

Folio (46.3 × 36.7 cm). Pp. i-viii, 1-64 [65-68]; lith. col. plates I-XVIII, VIIa, Xa, XIa, XVa (22 in all), 13 text-figs. (figs. of sterna and one sketch).

*Contents*—Half-title; title; pref.; introd., pp. vii-viii; text pp. 1-64, giving detailed technical accounts of the species of cranes, including synonymies, lists of vernacular names, descriptions (adult, immature, chick), descriptions of eggs, accounts of habitat, and general natural history. A figure of the sternum, showing the trachea, is added to each account. Index and list of plates, pp. [65]-[67].

A handsome, useful, and basic work, being one of the two major monographs of the Gruidae (see also Blyth and Tegetmeier, 1881; No. 305).

BMNH, I:168; Nissen, 105; Wood, 242; Zimmer, 59. Reviewed: *Ibis*, 1897: 457-458.

## BLACKBURN, JANE

288. 1868. *Birds / drawn from nature.* / By / Mrs. Hugh Blackburn. / Glasgow: / James Maclehose, bookseller to the University, / 61 St. Vincent Street. / 1868.

(36.7 × 26.6 cm). Ff. [4] [1-45]; lith. plates [I-XLV].

*Contents*—Advt., 1 leaf; title, 1 leaf; pref., 1 leaf (dated Dec. 1867, at Glasgow College); conts., 1 leaf; text (*i.e.*, plate numbers and legends, printed facing plates) and plates. Plate I (of heron's nest) is apparently the title-page from the first edition: *Birds / Drawn from Nature / By Mrs. Hugh Blackburn.* / [*Illustr.*] / Edmonston & Douglas, / Edinburgh, 1862. Plate XXIV is a second lith. title: *British Birds / by / Mrs. Hugh Blackburn.* / [*Illustr. of young gull*] / Part second, [*sic*]. The legends not only identify the birds figured in the plates but in many cases add information concerning the backgrounds and the circumstances under which the original pencil drawings were made.

This is the second edition of the work, the first (1862) having contained the first 23 plates only (Zimmer, pp. 59-60). Nissen dates the second edition "[1867] 1868." Mrs. Blackburn's fine, authentic bird drawings, done mainly from living specimens, were superior to most bird drawings of her time in faithful, sympathetic portrayal of the attitudes and expressions of living birds.

BMNH, I:168; Mullens and Swann, 67; Nissen, 106.

289. 1886. *Bible beasts / and birds / a new edition / of / illustrations of scripture* by / an animal painter / By / Mrs. Hugh Blackburn / photographed from the originals / and printed in platinotype / London / Kegan Paul, Trench & Co., 1, Paternoster Square / 1886.

(31.4 × 25.1 cm). Pp. i-ix [x], 1-59 [60]; 22 "platinotype" plates (from pencil drawings).

*Contents*—Half-title, title, advt., (introd.), pp. v-viii; list of plates; text, consisting of 22 accounts, numbered in Roman, one to each plate, the accounts being made up of quotations from the Bible and Milton's *Paradise Lost*.

Of interest to ornithologists because of the drawings, the ornithology of the Bible having been more thoroughly treated elsewhere. Mrs. Blackburn's work ranges from trite and uninspired to extremely good. Some of the present plates featuring birds are worthy of consideration with the best bird drawings of the times and the work attracted favorable consideration from such figures as Millais, Landseer, Ruskin, and Thackeray (see "advt.", pp. vi-vii).

According to the same "advertisement," the first edition was published by Messrs. Constable of Edinburgh in 1854, and was "perhaps the first ever published with photographic illustrations . . . the prints were 'silver' prints—consequently perishable—and most of the copies . . . have practically perished."

Not mentioned in zoological bibliographies consulted.

## BLACKMAN, THOMAS M.

290. 1944. *Birds of the / Central Pacific Ocean / A Popular Account of the Sea-birds and / Shore-birds of the Central Area / of the Pacific Ocean / By Thomas M. Blackman / Colored Drawings and Photographs / by the Author / Printed and Published by / Tongg Publishing Company / Honolulu, Hawaii, U.S.A.*

(22.8 × 15.0 cm). Pp. 1-70, [2]; plates 1-18 (plates 1-4, 9-12 col., drawings and photos. by author; plates 5-8, 13-17 photogr.; plate 18 map).

*Contents*—1 blank leaf (pp. 1-2); title (copyright 1944 on v.); ded.; pref.; conts.; introd.; text, pp. 13-65, in chapters 1-7; list of references, p. 66; index to illustrs., p. 67; index, pp. 68-70. The text briefly describes the species treated (see title) with concise comments on distribution. The colored plates are poor artistically but should be helpful for identification.

According to its dedication, the work was designed for the use of military and naval personnel.

## BLASIIUS, GERARD (1623-1682)

291. 1681. *Gerardi Blasii / Amstelrædamensis, / Medic. Doct. & Prof. Ordin. / Anatome / Animalium, / Terrestrium variorum, Volatilium, Aquatilium, / Serpentum, Insectorum, Ovorumque, / structuram naturalem / Ex Veterum, Recentiorum, propriisque Observationibus / proponens, / figuris variis illustrata. / [Device] / Amstelodami, / Sumptibus Viduæ Joannis à Someren, / Henrici & Viduæ Theodori Boom. / M DC LXXXI.*

4to (26.0 × 21.5 cm). Pp. [8] 1-494 [495-496]; [5] engr. plates, engr. plates I-LX (plates XXXIX-XLVII ornith.).

*Sigs.*—\*4 A-Qqq4; 252 leaves.

*Contents*—Engr. title, \*1<sup>r</sup> (Gerardi Blasii / Anatome / Animalium / Amstelodami. Apud Viduam Joannis a Someren Henricum et Viduam Theod. Boom. 1681); title, \*2 (v. blank); ded., \*3<sup>r</sup>\*3<sup>v</sup>; index of authors cited, \*4<sup>r</sup>\*4<sup>v</sup>; text, A-Tt3<sup>v</sup> (pp. 1-334), embodying extensive description and discussion of the anatomy of many kinds of animals (2 columns); index to books and chapters, Tt4 (pp. 335-336); plates and legends, Vv-Qqq4<sup>r</sup> (pp. 337-[495]); index to figs., Qqq4<sup>v</sup>. Text in 5 parts, the first (chapters I-XLI) concerned with terrestrial animals, the second (chapters I-XXVII) with flying animals (birds and bats) with an added section on the avian egg and chick, the third with aquatic animals (chapters I-[XXXVIII]; many chapters misnumb., the last XXXVI), the fourth with insects (chapters I-XII), and the fifth (one chapter) with serpents. Pp. 131-165 (second part) are devoted to the anatomy of birds (hawks, eagles, ducks, herons, storks, pigeons, crows, cuckoos, swans, galliformes, cranes, bustards, woodpeckers, parrots, and others), and a consideration of avian embryology occupies pp. 166-258, with 4 plates inserted following p. 258. With the exception of these 4 plates and another tipped to the outer margin of L14, the plates are integral, included in pagination and signing. They are on the recto of their leaves, with explanatory text on verso of the preceding plates or on other preceding conjugate leaves.

An early work in comparative anatomy, the ornithological part of which is presented in considerable detail although not with impressive accuracy. The Ellis copy has numerous manuscript annotations, mostly citing additional sources.

BMNH, I:173; Newton, 14; Wood, 243.

BLASIUS, WILHELM (1845-1918)

292. 1885. *Beiträge / zur Kenntniss der Vogelfauna von Celebes. / Von Professor Dr. Wilh. Blasius in Braunschweig. / I. / Vögel von Süd-Celebes, 1871 gesammelt von Herrn Dr. Platen bei / Mangkassar und im District Tjamba. / (Mit Tafel XI-XIV.)*

(23.5 × 16.6 cm). Pp. 201-328; lith. col. plates XI-XIV (by J. Madarász), engr. text-figs. 1-3.

*Contents*—Einleitung, pp. 201-209; Aufzählung der gesammelten Bälge, pp. 209-328, being an elaborately annotated list treating 56 non-passerine species.

The first part of an important faunal paper. Properly part of the periodical literature, the Ellis copy is a separately bound copy of the *Zeitschrift für die gesammte Ornithologie*, Budapest, II. Jahrgang, Heft III, 1885, containing this item and other partially ornithological matter as well as the original wrappers. The remainder of the paper appeared in the III. Jahrgang, Heft II, pp. 81-179, 193-210, 1886.

Strong, I:157 (pagination erroneous); *Zoological Record* for 1885 (Aves, p. 4) and 1886 (Aves, p. 6). Reviewed (part): *Ibis*, 1887:104.

BLOME, RICHARD (d.1705)

293. 1929. *Hawking / or / Falconry / by / Richard Blome / The / Cresset Press Limited / 11 Fitzroy Square / 1929.*

(20.7 × 16.4 cm). Pp. [i-vi] vii-xxxii, 1-123 [124]; fold. front., 4 plates, 3 text-figs. (all ornith.).

*Contents*—blanks, pp. i-ii; half-title, p. iii; “. . . printed in Monotype Cochin and is limited to 650 copies . . . This copy is number 469,” p. iv; title, p. v; pref. (signed E. D. Cuming, London, 1929), pp. vii-xxxii; text, p. 1-123; printer's imprint, p. 124.

The editor's preface is devoted to the history of falconry in England up to the date of Blome's original publication. The text is a reprint of the hawking section from the second part of Blome's *The Gentleman's Recreation*, first published in London in 1686, and is concerned with the taking, training, and flying of hawks. A considerable portion of the text is devoted to the diseases of hawks and their treatment (pp. 81-116), with some mention made of the diseases of the spaniels used to flush game for the hawks.

Wood, 244; Schwerdt, I:72 (orig. ed.).

## BLOMEFIELD, LEONARD (1800-1893)

294. 1826(?). *Observations / on the / ornithology of Cambridgeshire. / From the Transactions of the Cambridge Philosophical Society. / By the Rev. Leonard Jenyns, M.A. F.L.S. / Fellow of the Cambridge Philosophical Society. / Cambridge: Printed by J. Smith, Printer to the University. / 1826.*

4to (26.9 × 20.6 cm). Pp. [2] 287-324.

*Contents*—Title, 1 leaf (v. blank); text, with introductory matter on pp. 287-288, and a briefly annotated list, pp. 288-324, treating 158 species recorded in Cambridgeshire.

A printed note on p. 287 states that the paper was read on Nov. 28, 1825. According to Mullens and Swann, the work was published in the *Trans. Cambridge Philos. Soc.*, vol. II (part 2), pp. 287-324, in 1827. The present "author's edition" with special title (probably from the same type) is dated 1826 but the actual date of publication may have been later. Copy with bookplate of James E. Harting, whose learned annotations on the local ornithology form an appreciable MS. addition to its contents. The author, born Leonard Jenyns, adopted the name of Blomefield in 1871.

Coues, 4:380; Mullens and Swann, 315.

295. 1846. *Observations / in / natural history: / with an introduction on / habits of observing, / as connected with the study of that science. / Also a / calendar of periodic phenomena / in / natural history; / with remarks on the importance of such registers. / By the Rev. Leonard Jenyns, M.A., F.L.S., etc., / Vicar of Swaffham Bulbeck, Cambridgeshire. / [Quot., 3 lines—Bacon] / London: / John Van Voorst, Paternoster Row. / M.DCCC.XLVI.*

12mo (18.6 × 12.0 cm). Pp. i-xvi, 1-440, slip (at p. 440).

*Contents*—Half-title; title (printer's imprint on v.); pref.; conts.; sectional half-title, p. 1 ("Introduction / on / habits of observing, / as connected with the study of / natural history"); introd., pp. 3-46; sectional half-title, p. 47 ("Observations / in / natural history."); text, pp. 49-328, with sections devoted to observations of various groups of animals (birds: pp. 86-196); sectional half-title, p. 329 ("A / calendar of periodic phenomena / in / natural history; / with remarks on the importance of such / registers."); calendar, pp. 366-412 (with related remarks occupying 331-365, birds especially on p. 341); alphabetical index to calendar, pp. 413-428; general index, pp. 429-440; errata slip.

Title and contents self-explanatory. An advanced work for its times, growing out of the pioneer, classical observations by Gilbert White. The present work, the author tells us (pref.), is the ultimate result of his own editing of one of the editions of White's famous *Natural history of Selborne*. The observations given are mainly the author's own, and much interesting material on the habits of birds and other forms is presented. The observations were made at Swaffham Bulbeck, Cambridgeshire, 1820-31. Autographed and dedicated by the publisher, John Van Voorst, to a friend, Florence E. Shakespeare Owens.

Mullens and Swann, 314-316; Wood, 244.

## BLUMENBACH, JOHANN FRIEDRICH (1752-1840)

296. 1796-1810. *Abbildungen / naturhistorischer Gegenstände / herausgegeben / von / Joh. Fried. Blumenbach. / Ites Heft / Nro 1-10. / Göttingen / Bey Johann Christian Dieterich / 1796.*

Remaining numbers titled as follows:

[*Same as Heft 1, 5 lines*] / 2tes Heft. / Nro 11-20. / [*Same as Heft 1, 2 lines*] / 1797.

[*Same as Heft 1, 5 lines*] / 3tes Heft. / Nro 21-30. / [*Same as Heft 1, 2 lines*] / 1798.

[*Same as Heft 1, 5 lines*] / 4tes Heft. / Nro 31-40. / [*Safe as Heft 1, 2 lines*] / 1799.

[*Same as Heft 1, 5 lines*] / 5tes Heft. / Nro 41-50. / [*Same as Heft 1, 2 lines*] / 1800.

[*Same as Heft 1, 4 lines*] / Joh. Friedr. Blumenbach. / 6tes Heft. / Nro. 51-60. / Göttingen / bey Heinrich Dieterich. / 1802.

[*Same as Heft 6, 5 lines*] / 7tes Heft. / Nro 61-70. / [*Same as Heft 6, 2 lines*] / 1804.

[*Same as Heft 6, 5 lines*] / 8tes Heft. / Nro 71-80. / [*Sames as Heft 6, 2 lines*] / 1805.

[*Same as Heft 1, 5 lines*] / 9tes Heft. / Nro 81-90. / Göttingen / bey Heinrich Dieterich / 1809.

[*Same as Heft 1, 5 lines*] / 10tes Heft / Nro 91-100. / [*Same as Heft 9, 2 lines*] / 1810.

10 parts, 8vo (20.5 × 12.2 cm). 127 leaves engr. plates 1-100 (9 col., 19 ornith.)

*Contents*—Heft 1: title, 1 leaf (contents list on verso); pref. (dated Göttingen, 7 April 1796), 1 leaf; discussion of anthropological plates 1-5, 2 leaves; text (one leaf of descriptive matter for each plate) and plates 1-10; 1 blank leaf. Heft 2: title, 1 leaf (contents list on verso); text and plates 11-20; 1 blank leaf. Hefte 3-9 identically arranged. An errata note intended to apply to plate 68 is printed on the normally blank leaf at the end of Heft 8. Heft 10: title, 1 leaf (contents list on verso); half-title (*Abbildungen / naturhistorischer Gegenstände.*), 1 leaf; set-title (*Abbildungen / naturhistorischer Gegenstände / herausgegeben / von / Joh. Fried. Blumenbach. / Nro 1-100. / Göttingen / bey Heinrich Dieterich. / 1810.*), 1 leaf; classified index to plates with the errata note from Heft 8 printed at the foot of the last verso, 3 leaves; contents list for Heft 1, 1 leaf; text and plates 91-100; 1 blank leaf. Birds described (nos. 8, 16, 24, 25, 34, 35, 45, 46, 55, 56, 64, 65, 75-77, 85, 86, 96 and 97) are both passerine and non-passerine species. No. 35 is an interesting reconstruction of a dodo based on various sources. Ornithological plates nos. 8, 16, 35, 45, 56, 65, 76, and 96 have been colored. The text of Heft 3 and plate 85 have been printed on blue paper.

A bibliographically interesting little work, evidently once popular but of no

great zoological importance. The set-title and other preliminary matter printed with Heft 10 was obviously intended for the reader who wished to bind his copy of the separate parts. It is uncertain whether old sheets of the separate parts 2-10 were re-issued in 1810 with the revised version of part 1 (see No. 297 for a description of an apparent 1810 edition). At any rate, a reset and textually altered version of Heft 1 did appear in 1810, easily distinguished from the first edition of 1796 even in the absence of the 1796 title-page by its preface date (24 January 1810) and by the change of the subject of plate 3 and its text from Josuf Aguiah Efendi to Mohammed Jumla.

The Ellis set of the 10 original parts is partially bound (Hefte 1-6 with original separate titles but lacking terminal blanks, bound in one volume) and partially as issued (Hefte 6-10, with no imperfections). In addition to these pieces there is an extra copy of Heft 2, with text and plates of the 1797 edition but with a reset title whose typography closely resembles that of the 1827 edition (No. 298).

Wood, 254 (dated 1797-1810); Anker, 46.

297. 1810. *Abbildungen / naturhistorischer Gegenstände / herausgegeben / von / Joh. Fried. Blumenbach. / Nro 1-100. / Göttingen / bey Heinrich Dieterich. / 1810.*

8vo (19.9 × 11.7 cm). 109 leaves; engr. plates 1-100 (10 col., 19 ornith.).

*Contents*—Half-title, 1 leaf; title, 1 leaf; classified index to plates, 3 leaves; table of contents “des Isten Hefts” (*i.e.*, nos. 1-10), 1 leaf; pref. (dated Göttingen, 24 January 1810), 1 leaf; discussion of the anthropological plates (1-5), 2 leaves; text (one leaf of descriptive matter for each plates) and plates 1-100. Of the 19 ornithological plates, 10 (nos. 24, 25, 34, 46, 55, 64, 75, 77, 86, 97) are uncolored and 9 (nos. 8, 16, 35, 45, 56, 65, 76, 85, 96) colored.

The set-title and other preliminary matter are of the same setting as those found printed with Heft 10 of No. 296. The remainder of Heft 1 has been entirely reset, there is a revised preface, and the subject of plate 3 and its text has been changed from Josuf Aguiah Efendi to Mohammed Jumla. There is no blue paper except plate 85 and the type in Hefte 2-10 appears to show evidences of greater wear than in the separate issues, perhaps indicating that these parts were set from standing type rather than being old sheets.

Zimmer, 62.

298. 1827. *Abbildungen / naturhistorischer Gegenstände / herausgegeben / von Joh. Fried. Blumenbach. / 3tes [4tes] Heft. / Nro 21-30 [31-40]. / Ne. Auflage. / Gottingen / in der Dieterichschen Buchhandlung. / 1827.*

2 parts. Contents and description as in No. 296. The type has been reset and the text somewhat altered.

These stray parts and those described in No. 299 are of interest in giving clear evidence that distinct editions of this work were published in 1827 and 1830.

299. 1830. *Abbildungen / naturhistorischer Gegenstände / herausgegeben / von / Joh. Fried. Blumenbach. / 1tes [5tes] Heft. / Nro 1-10 [41-50] / Neue verbesserte*

Auflage. [Neue verbesserte Ausgabe.]/Göttingen,/in der Dieterichschen Buchhandlung. / 1830.

2 parts. Contents and description as in No. 296. The type has been reset and the text somewhat altered.

300. 1807. *Handbuch / der / Naturgeschichte / von / Joh. Fried. Blumenbach. / Achte Auflage. / Göttingen, 1807. / Bei Heinrich Dieterich.*

8vo (16.6 × 10.2 cm). Pp. i-xvi, 1-743 [41], engr. fold. plates I-II.

*Contents*—Title, p. [i]; quot., p. [ii]; foreword, or “Vorrede,” pp. iii-xii; addenda, or “Zusätze,” p. xiii; corrigenda, or “Verbesserungen,” p. xiv; explanation of plates, or “Anweisung der Kupfertafeln,” pp. xv-xvi; text, pp. 1-743, in chapters I-XVI, consisting of 3 introd. chapters on general natural history and sections on various groups of animals (birds: biology and structure, pp. 138-155; classification and bibl., pp. 155-158; synopsis of birds, pp. 159-227); index (41 unnumb. pp.). The section on birds is a brief compilation containing much of the ornithological information available at the time of publication, but contains little new information and was not mentioned by Newton in the introduction to the “Dictionary of Birds.”

The 8th German edition, according to title, of an ambitious, comprehensive work on natural history. The first edition appeared in 1779-1780.

BMNH, I:179; Wood, 245.

301. 1825. *Handbuch / der / Naturgeschichte / von / Joh. Fried. Blumenbach. / [Med.] / Eilfte rechtmässige Ausgabe. / Göttingen, 1825. / In der Dieterich'schen Buchhandlung.*

8vo (20.4 × 12.1 cm). Pp. [2] i-xi [xii], 1-668; engr. fold. plates I-II.

*Contents*—Title; half-title; foreword; explanation of plates; additions and corrections; text, in 16 chapters, divided as in edit. of 1807, but differently paged (birds, pp. 116-191).

A revised edition (see No. 300), the “eleventh authorized” edition. The section on ornithology has been little altered from that of the so-called eighth edition, but a number of references have been added to the bibliography.

302. 1825. *A / manual / of the / elements / of / natural history. / By / I. F. Blumenbach, / Professor of the University of Gottingen [Etc., 3 lines]. / Translated from the tenth German edition, / By R. T. Gore, / Member of the Royal College of Surgeons, in London, &c. / [Laudatory quot., 5 lines] / London: / printed for W. Simpkin & R. Marshall, / Stationers'-Hall Court. / 1825.*

8vo (22.1 × 13.8 cm, untrimmed). Pp. [12], 1-415 [416], i-xiv; engr. plates I-II.

*Contents*—Half-title; title; ded. (by transl.); advt. (by transl.; dated Aug., 1, 1825); extract from author's pref. (dated Aug., 1820); conts.; text, pp. 1-415, in 16 chapters (called “sections”; no. 16 misnumb. 17), as in German edits. of 1807 and 1825 (Nos. 300, 301), with 3 introd. chapters followed by 13 chapters on various phases of natural history (birds, pp. 79-130); index, pp. i-xiv.

A translation of the "tenth German" edition. The text is apparently very similar to that of the "eleventh German" edition described above (No. 301). Autograph: C. Hart Merriam.

303. 1827. A / manual / of / comparative anatomy, / translated from the German / of / J. F. Blumenbach, / with additional notes, / By William Lawrence, Esq. F.R.S. / Surgeon to St. Bartholomew's Hospital [*Etc.*, 3 lines]. / Second edition, revised and augmented, / by William Coulson, / Demonstrator of Anatomy at the Medical School, Aldersgate Street, / and member of the Zoological Society. / London: / printed for W. Simpkin and R. Marshall, / Stationers'-Hall Court, Ludgate Street. / 1827.

8vo (21.3 × 13.4 cm). Pp. [4] i-liv [2], 1-379; engr. plates I-VIII (2 ornith.).

*Contents*—Half-title and title, 2 leaves; advt., pp. i-iv (signed William Coulson; dated Oct. 1, 1827); author's pref. to 4th edit. (dated at Göttingen, March 31, 1824); introd., pp. xi-xlvi (general discussion of vertebrates; birds, pp. xxii-xxviii); conts.; text, pp. 1-374, in chapters I-XXVII, divided in 4 sections devoted to "osteology," "vital" functions, "animal" functions, and "generative" functions; explanation of plates, pp. 375-379. The anatomy of birds is thoroughly dealt with at appropriate places throughout the work. Blumenbach's classification, modified from Linnaeus and others, admits 7 orders of land birds (Accipitres, Leviostres, Pici, Coraces, Passeres, Gallinae, Struthiones) and 2 of aquatic birds (Grallae, Anseres). This classification is developed in greater detail in the various edits. of his "Naturgeschichte" (Nos. 300-302).

A thorough comparative anatomy of its day, published in a number of editions and translations. The first edition appeared at Göttingen in 1805 (*cf.* BMNH, I:179). Autograph and bookplate: C. Hart Merriam.

#### BLYTH, EDWARD (1810-1873)

304. 1849(?)–52. Catalogue / of the / birds / in the / Museum Asiatic Society. / By / Edward Blyth. / Published by order of the Society. / Calcutta: / printed by J. Thomas, Baptist Mission Press. / 1849.

8vo (21.5 × 13.6 cm). Pp. [2] i-xxxiv, 1-403.

*Contents*—Title, 1 leaf; pref., pp. i-xxviii, containing addenda to appendices 1-5 of the work, a second appendix 6, and further addenda to appendices 1-3 (pref. dated June 20, 1852); index to pref., pp. xxix-xxxiv; text, pp. 1-311, being a classification of birds from many parts of the world, but mainly the Indian Region, in the Society's museum, giving for each form name, brief synonymy, range, and data for each specimen in the collection. Several appendices deal with many minor matters pertaining to the work and to the Society's collections, and are paged as follows: no. 1 (312-314); no. 2 (314-316); no. 3 (316-328); no. 4 (329-331); no. 5 (331-335); no. 6 (335-340). "Addenda to appendices" are paged as follows: to no. 1 (p. 340); to no. 2 (340-341); to no. 3 (341-342); to no. 5 (342); further addenda to no. 1 (342-343). Pp. 343-347 contain an index to donors' names. Index, pp. 349-403.

The history of this remarkable book was reviewed by Zimmer: "A number of new names are used, some with descriptions, some without. Owing to delay in printing, the author found it necessary to add appendices 1-6, addenda to appendices 1-5 [*sic*; actually only to 1-3, 5] and 'Further addenda to appendix, No. 1.' at the close of the general text, and addenda to appendices 1-5, another appendix 6, still further addenda to appendices 1-3 and a special index, in the preface. The title-page is dated 1849 but the preface is dated June 20, 1852. Proof sheets of various parts were sent by Blyth in 1849 to certain of his correspondents who used the new names in their own papers, and the same sheets were exhibited at a meeting of the Asiatic Society of Bengal in August of that year. These sheets include pp. 1-311. This may be considered as constituting publication, in which case pp. 1-311 will date 1849. The appendices were prepared from time to time and the whole work was completed and placed on sale in 1852. (Cf. Mathews, *Birds of Australia*, Suppl. No. 4, p. 10, 1925.)"

Whittell, 59; Wood, 245; Zimmer, 62-63.

BLYTH, EDWARD; and WILLIAM BERNHARD TEGETMEIER

305. 1881. *The / natural history / of the / cranes.* / A monograph by / the late Edward Blyth, C.M.Z.S. / Greatly enlarged, and reprinted, with numerous illustrations, / by W. B. Tegetmeier, F.Z.S., / Member of the British Ornithologists' Union; General Editor of the Willughby Society. / [*Monogram*] / Published for the author by / Horace Cox, 346, Strand, W. C. / and R. H. Porter, 6, Tenterden Street, W. / 1881.

8vo (25.5 × 16.2 cm, untrimmed). Pp. i-vi [vii-viii], 1-91 [92]; lith. col. front., lith. plates I-II, 4 plates (1 col.; 1 fold.), 21 text-figs. and decors.

*Contents*—Half-title (advt. on v.; "Ornithological Works issued by W. B. Tegetmeier"); title; pref. (dated Feb., 1881); conts.; list of illustrs.; text, pp. 1-79 (introd. matter on pp. 1-13), providing accounts of the species of cranes, in which material supplied by Tegetmeier appears in brackets, and giving for each name, authority, synonymy, description, and notes on life-history; appendix, pp. 81-88, on tracheae of cranes and other birds; index, pp. 89-91; postscript, p. [92].

The articles by Blyth upon which this work is based were first published in *The Field* (newspaper) in 1873 and were regarded by Alfred Newton as "an admirably succinct account" (see pref., p. v). For the present work the articles were collected by Tegetmeier, who added much valuable new material. The work remains one of the two principal monographs of the Gruidae (see also Blaauw, F. E., 1897; No. 287). Bookplate: John Eliot Thayer.

BMNH, I:180; Nissen, 111; Wood, 245; Zimmer, 63. Reviewed: *Ibis*, 1881:494-495.

BOECE, HECTOR (1465?-1536)

306. 1527. *Scotorum / Historiæ a prima gentis origine, cum aliarum & / rerum & gentium illustratione non vulgari: præ- / missa epistola nu[n]cupatoria, tabel- / lisq[ue] amplissimis, / & non pœnitenda Isagoge quæ ab huius tergo ex / plica-*

buntur diffusius. / [*Device*] / Quæ omnia impressa quidem sunt Iodoci Badii / Ascensii typis & opera: impensis autem Nobilis & / prædocti viri Hectoris Boethii Deidonani: a quo / sunt & condita & edita.

Folio (30.0 × 21.4 cm). Ff. [42] [I-II] III-XXI [XXII], I-CCLX CCXLXI-CCXLXII CCLXIII-CCXCIII CCXCIII CCXCVI-CCCLXVIII.

*Sigs.*—ā<sup>8</sup> ē<sup>8</sup> ī<sup>8</sup> ō<sup>8</sup> ū<sup>10</sup> AA-BB<sup>8</sup> CC<sup>8</sup> a-z<sup>8</sup> A-Z<sup>8</sup> (B4 signed Aiiii; O3 signed Niii and corrected by erasure and hand-stamping); 432 leaves.

*Contents*—Title (printed in red and black, within metal-cut allegorical border), ā1<sup>r</sup>; conts., ā1<sup>r</sup>; poems of P. Rosset and J. Badius, ā2; pref. (Boece to James V, dated Aberdeen, 1 April 1526), ā3-ā5<sup>v</sup>; Boece to James Bethune, Archbishop of St. Andrews (dated Aberdeen, 1 May 1526), ā6; Boece to the reader, ā6<sup>v</sup>; William Gordon to the University of Aberdeen, ā7<sup>r</sup>; annotated list of the kings of Scotland, ā7<sup>r</sup>-ē7<sup>r</sup>; list of Scottish place names in both ancient and contemporary forms, ē7<sup>r</sup>-ē8<sup>v</sup>; index, ī1-ū10<sup>r</sup>; errata, ū10<sup>r-v</sup>; title (within same border as main title): In hac in Sco / torum Historiam Isagoge continentur. / Tabella literaria in ea contentorum. / Scotorum Regni descriptio & mores. / Regum Britannia, quæ nunc Anglia, series. / Regum Scotorum Catalogus. / [*Device*] / Quæ impressa sunt Typis Iodoci Badii: / & impensis Hectoris Boethii., AA1<sup>r</sup>; text as listed on AA1<sup>r</sup>, AA2-CC6<sup>r</sup> (ff.II-XXII); Alexander Lyon to the Scottish nobility (dated Paris, 15 March 1527), CC6<sup>v</sup>; main text, in 17 books, a1-Z8 (ff.I-CCCLXVIII). The description of the kingdom of Scotland (AA3-CC1<sup>r</sup>) includes natural history, with ornithological references on BB2-7. Eagles, hawks, falcons and the capercaillie are discussed on BB4<sup>v</sup> and there is a long description of the generation of geese from barnacles with accounts of various observations made in the Hebrides on BB6<sup>r-7<sup>r</sup></sup>.

The first edition of a well-known early history of Scotland, containing one of the very early references to the natural history of the British Isles. The earliest of the numerous translations of this work into English was that of John Bellenden, first published in 1536. The Ellis copy of the Badius edition has been annotated by several 16th and 17th century owners, one of whom has indicated the position of the chapter divisions used by Bellenden. Many of the annotations are in Scots and some of them incorporate quotations from Bellenden's translation, including some lines of verse. A few of the verses differ from the Bellenden readings and one, at least, is from some source other than Bellenden.

Mullens and Swann, 75-77; Renouard, Philippe, *Imprimeurs & libraires Parisiens du XVIe siècle*, Paris, 1969, 2:565.

#### BOGARDUS, ADAM H.

307. 1884. **Field, cover, and trap shooting.** / By / Captain A. H. Bogardus, / Champion Wing Shot of the World. / Embracing / hints for skilled marksmen; instructions for young / sportsmen; haunts and habits of game birds; / flight and resorts of water fowl; / breeding and breaking of dogs, / etc. etc. / Revised and edited / by / Colonel Prentiss Ingraham. / With an appendix. / New York: / Orange Judd Company, / 751 Broadway. / 1884.

(18.6 × 12.0 cm). Pp. [6] [1-6] 7-493; engr. front. (portr.), 14 engr. plates.

*Contents*—Title; ded.; list of illustrs.; conts.; editor's pref.; text, in chapters I-XVI. Of some interest to ornithologists are chapters I (general), III and IV (Pinnated Grouse shooting), V (Quail shooting), VI (Ruffed Grouse shooting), VII (on Woodcock), VIII (on snipe), IX (on Golden Plover, Curlew, "Gray Plover"), X and XI (ducks, etc.), XII (geese, cranes, and swans), and XIII (Wild Turkey). The remaining chapters and appendix (pp. 345-493) are devoted to technical aspects of field and match shooting, etc.

A guide for sportsmen, containing some material relative to the early occurrence and abundance of game species in the midwestern United States, especially in the region of central Illinois around 1850. The author is not notable for his modesty (although he does not, at least, claim to be a scientist), but some of his observations made during wide field experience in a vanished era may be of significance.

BOLTON, JAMES (fl. 1775-1795)

308. 1794-96. *Harmonia ruralis*; / or, / An essay / towards / a natural history / of / British / song birds. / Volume the first. / Illustrated / with Figures the Size of Life, of the Birds, Male and Female, / in their most natural Attitudes; / their Nests and Eggs, Food, favourite Plants, Shrubs, Trees, &c. &c. / Faithfully drawn, engraved, and coloured / after nature./ By the Author, / on forty copper-plates. / [*Verse, 4 lines*] / *Natura semper eadem, sed artes sunt varia.* / By James Bolton. / [*Orn.*] / Printed for and sold by the author, at Stannary, near Halifax; / sold also by B. and J. White, in London, and may / be had of all other booksellers. / 1794.

Second volume titled as follows:

[*Idem, 8 lines*] / Volume the second. / Illustrated / with Figures the Size of Life, of the Birds, Male and Female, in their most natural / Attitudes; their Nests and Eggs, Food, favourite Places, &c., &c.; / faithfully drawn, engraved, and coloured, / after nature, / on forty copper-plates. / By James Bolton. / [*Verse, idem.*] / [*Motto, idem.*] / [*Orn.*] / [*Imprint, idem.*<sup>1</sup>] / 1796.

2 vols. in one, folio (32.8 × 22.0 cm).

Vol. I: pp. i-viii, ff. 1-40; engr. col. front. (ornith.), 40 engr. col. plates (by author; 20 of birds; 17 of nests and eggs; 3 of both).

Vol. II: ff. [3] 41-80, pp. 81-82; 40 engr. col. plates (by author; 20 of birds; 18 of nests and eggs; 2 of both).

*Contents*—Vol. I: title (v. blank); ded.; pref., pp. v-viii (dated April 1, 1794); text, ff. 1-40 (printed on v. only), each with accompanying plates, describing the birds and eggs figured, and giving brief accounts of the natural history of the various species. Vol. II: title, 1 leaf (v. blank); ded., 1 leaf (v. blank); note and descriptions of front. of vol. I, 1 leaf (printed both sides); text, ff. 41-80 (arranged as in vol. I), with 40 accompanying plates; index, pp. 81-82.

The first edition, said to be rather rare, of a popular early work on British birds. Coues was favorably impressed by it but not all bibliographers have concurred (*cf.*

<sup>1</sup> Except for a semicolon immediately following "London."

Mullens and Swann). In the Ellis copy the ninth plate of vol. I (Ring Ouzel) is missing, with an unsigned original drawing of the species, well executed in crayon and water color and not copied from the corresponding plate, bound in its place. Bookplate: W. H. Mullens.

A second edition was published in 1824 (No. 309) and re-issued in 1845 (No. 310), and perhaps in 1830 (*see* Wood, 247).

BMNH, I:192; Coues, 4:369; Mullens and Swann, 78-79; Nissen, 115; Wood, 247.

309. 1824. *Harmonia ruralis*; / or, / an essay / towards / a natural history / of / British song birds: / illustrated / with figures, the size of life, of the birds, male and / female, in their most natural attitudes; / their / nests and eggs, food, favorite plants, shrubs, trees, &c. &c. / faithfully drawn, engraved, and colored after nature. / Vol. I [II]. / [4 lines from *Paradise Lost*] / London: / Printed for W. T. Gilling, Suffolk-Street. / 1824.

2 vols. 4to (31.5 × 24.6 cm).

Vol. I: pp. [2] [iii-v] vi-xxiv [4] 1-8 9\*-16\* 9-66; engr. col. front., engr. col. plates 1-40 (20 of birds, 17 of nests and eggs, 3 of both).

Vol. II: pp. [2] 1-96; engr. col. plates 41-80 (20 of birds, 18 of nests and eggs, 2 of both).

*Contents*—Vol. I: title; ded.; pref., pp. v-xxiv, a rambling essay touching sometimes ingeniously on many aspects of ornithology; conts.; comparative table grading numerically the relative singing abilities of 17 British birds (by Daines Barrington); text, pp. 1-8 9\*-16\* 9-66, greatly expanding Bolton's original text. Vol. II: title, text, pp. 1-87; untitled postscript, continuing preface, pp. 89-96. The plates are newly engraved copies of those in the first edition (No. 308).

The large paper copy, described above, is from the library of John Eliot Thayer and bears his bookplate. The Ellis Collection contains as well two copies of this edition printed on paper of a smaller size. Both these copies are in original boards, with paper measuring 27.6 × 20.3 cm. They differ from each other only in the order of binding of the preliminary matter and in the paper labels on the upper boards (pink labels on one set, white on the other; text the same but different settings of type): Natural history / of / British song birds. / Two volumes, / eighty coloured plates. / Price Five Guineas.

Wood, 247.

310. 1845. *Harmonia ruralis*; / or / an essay / towards / a natural history / of / British song birds: / illustrated with figures, the size of life, of the birds, male and female, / in their most natural attitudes; / their nests and eggs, &c. / By / James Bolton. / Vol. I [II]. / A new edition, revised and augmented. / [*Vign.*] / London: / Henry G. Bohn, York Street, Covent Garden. / MDCCCXLV.

2 vols. in one, 4to (30.4 × 23.9 cm). Collation as in No. 309.<sup>1</sup>

<sup>1</sup>Zimmer gives the numbering of plates in vol. II as 1-80 (should be 41-80). His count of the numbers of plates devoted to birds as opposed to nests also differs from that obtained from the present copy (for count see No. 309).

*Contents*—As in the second edit. (No. 309), from the same setting, signed and numbered the same, with illustrs. from the same plates. The words “revised and augmented” in the titles are valid only in reference to the first edit.

A re-issue of the second edition (No. 309), as a version with similar pagination but dated 1830 (Wood) may also be. The first edition (No. 308) appeared in 1794-96.

BMNH, I:192; Wood, 247; Zimmer, 64.

### BOMBAY NATURAL HISTORY SOCIETY

311. 1933. **The / Bombay Natural History Society. / 1883-1933. / Printed in Commemoration of the / Golden Jubilee of the Society, 1933. / [Orn.] / Offices and library / 6, Apollo Street, / Museum / Natural History Section, Prince of Wales' Museum.**

8vo (24.2 × 17.0 cm). Pp. [4], 1-101 [102], [8 (*adv.*)]; photogr. front. (portr.), 22 plates (1 col.; 3 ornith.; 6 plates printed one side of paper only, remainder printed both sides), 2 col. maps.

*Contents*—Title; list of patrons and officials as of 1933; text, with many subdivisions. The history of the Society is briefly summarized (pp. 1-3), and many of its efforts and accomplishments detailed. Part II deals with the contributions made in the *Journal* of the Society, summaries and bibliographies being given by taxonomic group and by subject (pp. 16-42; birds, pp. 18-24). Popular articles are summarized by volume number on pp. 42-85 (some ornith. content). Part III treats expeditions and explorations of the Society (pp. 86-101).

Title and contents self-explanatory. A valuable guide to much of the history and source material of Indian zoology.

### BONAPARTE, CHARLES LUCIEN JULES LAURENT (1803-1857)

- 312a. 1825. **American / ornithology; / or, / the natural history / of / birds inhabiting the United States, / not given by Wilson. / With figures drawn, engraved, and coloured, from nature. / By / Charles Lucian Bonaparte. / Vol. I. / Philadelphia: / Published by Samuel Augustus Mitchell. / Sold by Anthony Finley, North-East Corner of Fourth and Chestnut Streets. / William Brown, Printer. / 1825.**

Folio (40 × 31 cm, untrimmed). Pp. [i-iii] iv-vi [vii-viii], [1] 2-105 [106]; engr. col. plates 1-9 (by Titian R. Peale).

*Sigs.*— $\pi^4$  A-Cc<sup>2</sup>  $\chi$ 1 ( $\pi$ 3 signed B\*); 57 leaves.

For description of vols. 2-4, *see* 312b below.

- 312b. 1828-33. **American / ornithology; / or, / the natural history / of / birds inhabiting the United States, / not given by Wilson. / With figures drawn, engraved, and coloured, from nature. / By / Charles Lucian Bonaparte. / Vol. I [-IV]. / Philadelphia: / Carey, Lea & Carey—Chesnut Street. / London:—John Miller, 40 Pall Mall. / William Brown, Printer, / 1825 [1828; 1828; 1833].**

4 vols., folio (37.4 × 29 cm).

Vol. I: pp. [i-iii] iv-vi [vii-viii], [1] 2-105 [106]; engr. col. plates 1-9 (by Titian R. Peale).

Vol. II: pp. [i-iii] iv-vii [viii-x], [1] 2-95 [96]; engr. col. plates 10-15 (by A. Rider).

Vol. III: pp. [i-iv], [1] 2-60; engr. col. plates 16-21 (by A. Rider).

Vol. IV: pp. [i-iv], [1] 2-142; engr. col. plates 22-27 (by Peale and Rider).

*Sigs.*—Vol. I:  $\pi^4(\pm\pi 1)$  A-Cc<sup>2</sup>  $\chi 1$  ( $\pi 1$  is a cancel;  $\pi 3$  signed B\*); 57 leaves. Vol. II:  $\pi 1$  B\*-C\*<sup>2</sup>, A-Aa<sup>2</sup>; 53 leaves. Vol. III:  $\pi^2$  A-P<sup>2</sup>; 32 leaves. Vol. IV:  $\pi^2$  A-Nn<sup>2</sup> (Nn<sup>2</sup>, probably blank, wanting); 73 leaves.

- 312c. 1835? American / ornithology; / or, / the natural history / of / birds inhabiting the United States, / not given by Wilson. / With figures drawn, engraved, and coloured, from nature. / By / Charles Lucian Bonaparte. / Vol. I. / Philadelphia: / Carey, Lea & Carey—Chesnut Street. / London:—John Miller, 40 Pall Mall. / T. K. & P. G. Collins, Printers. / 1825.

Folio (38.8 × 30.6 cm). Pp. [i-iii] iv-vi [vii-viii], [1] 2-105 [106]; engr. col. plates 1-9 (by Titian R. Peale).

*Sigs.*—[A]-B<sup>2</sup> A-Cc<sup>2</sup>  $\chi 1$ ; 57 leaves.

For description of vols. 2-4, see 312b above.

*Irregularities and variants*—Volume I occurs in three versions as indicated in the descriptions above. No. 312a is the first edition, first issue, published by Samuel Augustus Mitchell in 1825. No. 312b is the first edition, second issue, published by Carey, Lea & Carey after their purchase of the work from Mitchell, and bearing their cancel title-page. The true date of publication of this issue, as indicated by *The Cost Book of Carey & Lea 1825-1838*, is probably June 1828. No. 312c is the second printing (by T. K. & P. G. Collins for Carey, Lea & Carey), probably issued about 1835 to make up the number of copies needed to supply full sets to accompany the recently issued volume IV. A letter of June 23, 1834 (in the letterbooks of Carey, Lea, and Carey, now in the Historical Society of Pennsylvania), from Carey, Lea, & Carey to Bonaparte, indicates that the possibility of reprinting volume I was being considered, although no mention of any such reprinting appeared in the published *Cost Book*. Collins first appears as one of Carey's printers in an entry of March 1835 in the *Cost Book*.

The only variation other than that of the title-pages and the Collins re-setting of the text (with no discernable change of text) appears in the caption to figure 1 of plate 6 in volume I. In the first edition, first issue, this caption reads *Crimson-necked Bullfinch. / Pyrrhula Frontalis*. in the Ellis copy and in 14 other copies traced, and *Crimson-headed Bullfinch. / Pyrrhula Erythrina*. in 4 other copies traced. In the Ellis copy and all others traced (8 copies altogether) of the first edition, second issue, this same figure is captioned *Crimson-headed Bullfinch. / Pyrrhula Erythrina*. In the Ellis copy and the 9 others traced of the second printing, the same figure is captioned *Crimson-necked Bullfinch. / Pyrrhula Frontalis*. Bonaparte's text to accompany this plate makes it clear that he considered any application of the word "Erythrina" to the bird figured to be quite incorrect and the term "Frontalis" to be correct. The only explanation I can offer for the presence

of both terms and the apparent sequence in which they occur is purely speculative. Perhaps the copper plate was engraved with the "Erythrina" caption before the text was written (and before Bonaparte had fully established his opinion) and a good number of prints made from the plate. Perhaps Bonaparte discovered this caption only after some copies had been issued and then had the copper plate corrected. Perhaps the remaining copies of the "Erythrina" plate were not destroyed but only put into storage and were then bought and used innocently by Carey, Lea & Carey for their 1828 issue. When it became necessary to reprint volume I in 1835 or so the new prints were made from the corrected plate. Comparison of the Ellis copies on the Hinman Collating Machine reveals no difference in the prints other than in the affected words so that there is no doubt that the same plate was used for all of the prints.

Aside from the differences in volume I, the three Ellis sets of this work differ only in binding and provenance, 312a having the bookplate of the Liverpool Library, Lyceum, Bold Street, and 312b the bookplate of Hume of Auchendolly.

*Contents*—Vol. I: title, p. i; copyright notice (dated same as title-page), p. ii; pref., pp. iii-vi; "Index to the first volume," p. vii; blank, p. viii; text, pp. 1-105. Vol. II: title, p. i; copyright notice (dated same as title-page), p. ii; "Preface to the second and third volumes," pp. iii-vii; blank, p. viii; "Index to the second volume," p. ix; blank, p. x; text, pp. 1-95. Vol. III: title, p. i; copyright notice (dated same as title-page), p. ii; "Index to the third volume," p. iii; blank, p. iv; text, pp. 1-60. Vol. IV: title, p. i; copyright notice (dated same as title-page); "Index to the fourth volume," p. iii; blank, p. iv; text, pp. 1-142. The indices consist of lists of species covered in the respective volumes, with page references. The text of the four volumes contains 60 accounts of birds not treated or supposedly not treated in Alexander Wilson's *American Ornithology* of 1808-1814, giving descriptions of specimens, notes on classification, remarks on behavior, range, etc. Considerably less than 60 species are actually added to Wilson's list, some of Bonaparte's descriptions being based on different plumages of species included by Wilson. The plates were engraved by Alexander Lawson of Philadelphia.

A basic work, intended to supplement Wilson's *American Ornithology*. While later editions of the text have been included with some later editions of Wilson, as Coues pointed out, "the original distinction and complete separation of the two works must be fully recognized." Never conspicuous for his admiration of Bonaparte, Coues described the work as ". . . a quasi-continuation of Wilson, gotten up in similar style, if not spirit."

Anker, 47; BMNH, I:194; Coues, 1:609; Nissen, 116; Rhoads, *Auk*, 1923:341-342; Wood, 247; Zimmer, 64-65; *The Cost Book of Carey & Lea 1825-1838*, ed. David Kaser, Philadelphia, Univ. of Pennsylvania Press [c1963], p. 63; letter of Carey, Lea & Carey, cited above, supplied by the kindness of Mr. Edwin Wolf, 2nd.

313. 1826. *Observations / on the / nomenclature / of / Wilson's ornithology. /* By Charles Lucian Bonaparte. / Philadelphia: / published by Anthony Finley. / 1826. 8vo (22.0 × 13.7 cm). 125 leaves.

*Contents*—Title, 1 leaf; text, 124 leaves., a commentary on the nomenclature and identity of the birds discussed in Alexander Wilson's *American ornithology*

of 1808-14. Wilson's genera and species are treated in brief notes, with reference both to Wilson's text and to remarks by various editors thereof. Species discussed are numbered, 1-278. The last 11 pages are devoted to additions and corrections.

Part of the work (species 1-227) was first published in 1824 and 1825 in the *Jour. Acad. Nat. Sci. Philadelphia*. Its history has been amply treated by Coues ("one of the most notable and in some respects the most important of early American papers") and Zimmer. New names occurring in accounts of species 1-227 date from the original articles in the Journal; the remainder date from the present work. Dates of publication and other details concerning the articles in the original Journal prove, upon comparison with the originals supplemented by consultation of the Philadelphia Academy's index of 1913, to be correct as given by Coues and transcribed by Zimmer.

Coues, 1:608, 610; Wood, 247; Zimmer, 65.

314. 1828. *The / genera / of / North American birds, / and a / synopsis of the species / found within the territory of the United States.* / By Charles Lucian Bonaparte, / Prince of Musignano. / Extracted from the Annals of the Lyceum of Natural / history of New-York. / New-York: / printed by J. Seymour, John-Street. / 1828.

8vo (21.6 × 13.4 cm). Pp. [2] 7-128, 293-451.

*Contents*—Title, 1 leaf; text, with introductory remarks (pp. 7-11), statement of classification used (pp. 11-14), analytical table of North American genera (pp. 15-20), "The genera of North American birds" and a synopsis of United States species (p. 21-end). In the text, characters are given for orders, families, genera, subgenera (often equalling the genera of today), and species. For the species are given brief descriptions, scientific and common names, references to other authorities (mainly Wilson), and brief descriptions of range.

An important early paper. The Ellis copy is an offprint not seen by Coues (*cf.* Coues, 1:612-613), who gives complete particulars, however, concerning the original appearance of the articles in the *Annals of the Lyc. Nat. Hist. New York*, vol. 2, 1828:7-128, 293-451 (read January 24, 1826). Coues stated that part of the paper certainly appeared before 1828, possibly in 1826. Since no new names appear the matter is of academic interest only. Bookplates: Edward Everett (see No. 315), John Eliot Thayer.

Wood, 247-248.

315. 1830. *Sulla / seconda edizione / del / Regno Animale / del Barone Cuvier / osservazioni / di / Carlo Luciano Bonaparte / Principe di Musignano.* / Bologna 1830. / Tipografia Marsigli / con approvazione.

8vo (21.7 × 14.7 cm, untrimmed). Pp. 1-175 [176].

*Contents*—Title, p. 1; text, in Italian, pp. 3-175; colophon, p. [176]. A running text of critical commentary, for the most part under systematic headings, upon the second edit. of Cuvier's *Règne animal*, 1829-30, with page references thereto. Pp. 10-14 and 27-138 of the present commentary are devoted to birds.

Title and contents self-explanatory. The critical commentary seems to have been one of Bonaparte's chief forms of publishing his own opinions and contributions. The present copy of this apparently little known work is inscribed: "To Mr. E. Everett M. C. from his friend the Author," with the additional note inside original paper cover: "I should like the book noticed in one of your American publications." (Edward Everett, Member of Congress, later Governor of Massachusetts.)

Engelmann, 316.

316. 1837. XVI. *A New Systematic Arrangement of Vertebrated Animals*. By C. L. [sic] Bonaparte, Prince of Musignano, F.M.L.S. &c.

4to (26.8 × 22.0 cm). Pp. 247-304.

*Contents*—Title (caption at head of p. 247); text. A classification of vertebrates, with birds considered on pp. 258-278 (8 orders, 62 families, 150 subfamilies, the last being the lowest category treated).

A major member of a series of works in which the author developed his (then) progressive views on avian classification. The work was discussed at some length by Newton. The Ellis copy is a bound extract from the *Trans. Linnean Soc. London*, vol. 18, pp. 247-304, 1837.

317. 1838. *A / geographical and comparative / list of the / birds / of / Europe and North America. / By / Charles Lucian Bonaparte, / Prince of Musignano. / London: / John Van Voorst, 1, Paternoster-Row. / 1838.*

8vo (22.2 × 14.1 cm, untrimmed). Pp. i-vii [viii], 1-67 [68], [4].

*Contents*—Half-title; title; pref., pp. v-vii; text, pp. 1-67, in parallel columns, the birds of Europe ranged on the left and those of North America on the right, with the most closely related forms the most nearly opposite—all arranged in Bonaparte's own classification. Very brief annotations under each form give name, describer (abbrev.), and a reference to a Gould (European) or Audubon (American) figure. Advt., 2 leaves.

A progressive paper for its times. Details of dating are given by Zimmer and Mathews (there seems to be some question as to whether the work was published in January or April). Coues gives an excellent critical review of the work.

Now in the Ellis Collection are a presentation copy from the author to "Captain Forcis," and another from the publisher to John Gould, as well as P. L. Sclater's copy with his annotations, and an interleaved copy belonging to an unidentified 19th century egg-collector.

Coues, 1:635; Mathews, 11; Wood, 248; Zimmer, 67. Reviewed: *Mag. Nat. Hist.*, New Ser., 2, No. 16, p. 237, April 1838; *Ann. Mag. Nat. Hist.*, I, p. 318, June 1838.

318. 1850. *Revue critique / de / l'ornithologie / Europeenne / de M. le docteur Degland (de Lille) / par / Charles Lucien Bonaparte / Lettre / A M. De Selys*

Longchamps / [Quot., 5 lines] / Bruxelles / Imprimerie et Librairie de V<sup>e</sup> Wouters / 57, rue du Champ-de-Mars, et 15, rue d'Or / 1850.

12mo (19.0 × 12.0 cm, untrimmed). Pp. 1-206.

*Contents*—Half-title, 1 leaf; title, 1 leaf; text, with introductory material, pp. 5-9, addressed to "Mon cher monsieur De Selys," and a highly critical review of Degland's work, pp. 10-114. The original description of *Oidemia deglandi* appears on p. 108. Pp. 115-125 contain a "Conspectus systematis ornithologiae," and pp. 127-206 contain the author's "Conspectus avium Europaeorum."

One of Bonaparte's many systematic papers, and, like all of them, of some importance. Copy in original covers.

Newton, 41 (crit.); Wood, 248; Zimmer, 68.

319. 1850-57. *Conspectus / generum avium.* / Auctore / Carolo Luciano Bonaparte. / Tom. I [II]. / Lugduni Batavorum, / apud / E. J. Brill, / Academiae Typographum. / 1850 [1857].

2 vols. in one, 8vo (24.0 × 15.5 cm).

Vol. I: pp. [6] 1-543.

Vol. II: pp. [2] 1-232.

*Contents*—Prelim. matter limited to 3 leaves in vol. I (half-title; title; ded., to Hermann Schlegel, dated April, 1850) and 1 leaf in vol. II (title). The text is a "synoptic list of the genera of birds, with, except in the Psittaci, a complete list of species of each genus, the synonymy of each species and, usually, a brief description" (Zimmer). Brief synonymies and statements of range are also given for genera. Recognized in all (according to the numbers assigned to the last member of each category) are 7 orders, 102 families, 231 subfamilies (subfamily 231 misnumb. 217), and 1,288 genera. The first vol. treats orders 1-3, families 1-63, subfamilies 1-138, and genera 1-1,075. The second vol. treats orders 4-7, families 76-102, subfamilies 186-231, and genera 1-213 (no explanation is given for separate numbering of genera in this vol.). The discontinuity in numbering of families and subfamilies is explained by footnotes on p. 1 of vol. 2, where certain groups not recognized at the conclusion of the first vol. are added to make up the missing numbers. However, since 13 families are so added, it would seem that the numbering of families in vol. 2 should be 77-103 instead of 76-102. Discrepancies in the numbering of subfamilies are more complex, perhaps hopelessly so.

A well known and basic systematic work (see Newton), which, according to Zimmer, was originally "published in three parts, of which part I included pp. 1-272; part 2, pp. 273-543 (end of vol. I); part 3 (all published of Vol. II), pp. 1-232." Additionally, "Bonaparte undoubtedly distributed a number of copies of the various sheets of vol. II, either as they were printed or in small groups of signatures. . . ." Zimmer adds a lengthy and detailed consideration of the history and dating of the work, especially the last part, and this should be consulted by the interested systematist. Concerning parts 1 and 2, van Rossem (*Auk*, 1946:243) has amended Zimmer's data on the basis of further evidence and concluded that the latest possible dates of issue of the respective pp. were as follows: Part 1,

pp. 1-160, before June 18, 1850; pp. 161-272, before June 24, 1850. Part 2, pp. 273-400, before October 15, 1850; pp. 401-543, before February 3, 1851. The use of quotes around the word "part" in van Rossem's note probably reflects a doubt as to just what the word means in the present context, a matter not quite clarified in literature to date. In any event, vol. I appears to have been published mainly in 1850, while vol. II, formally published in 1857, was released piecemeal earlier. Copy with autograph and annotations of E. T. P. Ramsay and with Otto Finsch's index to the work bound in.

Newton, 30; Wood, 248; Zimmer, 68-69.

320. (?1854-)1855. *Coup d'oeil / sur / l'ordre des pigeons, / par / S. A. Monseigneur le Prince Charles-Lucien Bonaparte / Extrait des Comptes rendus des séances de l'Académie des Sciences, tomes XXXIX et XL. / Années 1854-1855. / Paris, / Imprimerie de Mallet-Bachelier, gendre et successeur de Bachelier, / Rue du Jardinot, 12. / 1855.*

4to (28.0 × 22.2 cm, untrimmed). Pp. [2] 1-59.

*Contents*—Title, 1 leaf; text, 59 pp., devoted to a commentary on the relationships among pigeons and their relatives.

A basic systematic paper. Zimmer wrote: "A repaged, revised reprint of a paper which was issued in parts in the 'Comptes Rendus' in 1854 and 1855, Vol. XXXIX, pp. 869-880, 1072-1078 and 1102-1112, and Vol. XL, pp. 15-24, 96-102 and 205-215 [should be 205-221].<sup>1</sup> A title page is supplied for this reprint, and minor changes are made in the text here and there, but the general account follows the original with fair regularity except in the case of the discussion of the 'Zénaïdiens.'" After discussing differences in the account of this group, and noting the absence of new names, Zimmer added: "Additions and corrections to the original . . . were published in the 'Comptes Rendus' XLIII, pp. 833-841 and 942-949, 1856." Dating of the reprinting is uncertain. It was probably released in parts, the first of which may have appeared in 1854.

The Ellis copy is imperfect, missing pp. 25-32.

Coues, 4:800-801 (original version); Ronsil, 57; Zimmer, 72.

321. 1857-58. *Iconographie / des pigeons / non figures par Mme. Knip (Mlle Pauline Decourcelles) / dans les deux volumes de MM. Temminck et Florent Prévost / par Charles-Lucien Bonaparte / ouvrage servant d'illustration a son / Histoire naturelle des pigeons / Paris / P. Bertrand, libraire-éditeur / rue de l'Arbre-sec, 22 / 1857.*

Folio (55.2 × 36.6 cm, untrimmed). 68 leaves; 55 engr. col. plates.

*Contents*—Half-title, 1 leaf (printer's imprint on v.); title, 1 leaf (v. blank); dedicatory pref., 2 leaves ("A monsieur Moquin-Tandon"); a classification of pigeons, "conspectus generum columbarum," etc., 3 leaves; general text, 59 leaves, devoted to description of the species figured (with exceptions listed below), giving

<sup>1</sup> Ronsil also gives these pages in error, 204-221.

name, reference to plate (citing plate numbers in roman numerals), synonymy, and comment on range, relationships, and natural history; Avis de l'éditeur, 1 leaf (dated 1 juillet 1858); table des matières, 1 leaf. The 55<sup>1</sup> plates are numbered (in arabic numerals) as follows: 1-9, 11-19, 25, 21-24, 20, 26, 28, 29, 31-36, 38-40, 42, 45, 51, 57, 58, 61, 62, 69, 70, 75, 102, 116, 119, 121, 125, 126, 133, 134, 140. The text describes 59 forms which the plates are intended to illustrate.

A number of discrepancies between the numbering of plates and that of the text occur, and the work displays a lack of organization, no doubt occasioned at least in part by Bonaparte's death before its conclusion. Of the 59 forms described in the text, one (*Iotreron eugenia*) is without an illustration. One form illustrated (*Phalacrotreron calva*, plate 3, a) is not described in text. Other discrepancies concern the numbering of plates. Plate 20, misnumbered 25, is referred to correctly (*i.e.*, as 20) in text (*Ptilopus greyi*); plate 25, misnumbered 20, is incorrectly numbered both in text and plate (*Ptilopus flavicollis*). Plate 28 (*Iotreron viridis*) contains only one figure but is referred to in text as "Pl. XXVIII, fig. 2, jeune." Plate 125 contains two figs., of (1) *Peristera cinerea* and (2) *Peristera geoffroyi*, but in the account of the latter it is listed as figured on "Pl. CXXI, fig. 2," while *P. cinerea* is correctly cited in text. According to the list of contents, however, *P. geoffroyi* is to be found on plate 124, indicated as misnumbered, 121. Actual plate 121, correctly cited in text, bears the figure of *Talpacotia rufipennis*. (No plate is actually numbered 124.) Thus the plate showing *P. geoffroyi* is numbered 121 in text, 124 "misnumbered 121" in contents, and 125 on the plate itself. Zimmer stated correctly that plate 124 was not issued, but was incorrect in saying that its accompanying description was issued, if we take the description of *Peristera geoffroyi* to apply to the figure of that form on plate 125. Zimmer also states that plates 27 and 29 were not issued; however, he lists plate 29 in his own collation, and it is present as well in the volume at hand.

Zimmer discussed the dating of the work in some detail. He summarized: "A supplement to 'Les Pigeons' by Temminck and Prévost (*cf.* Knip 1809-11), intended to figure and describe those species of pigeons not treated in the earlier work. The original plan embraced 30 livraisons of 150 plates but the author died immediately after the publication of livr. 4, leaving incomplete manuscript and plates for part of the remainder. The publishers obtained the services of Moquin-Tandon to edit the manuscript and 8 more livraisons were published with 35 plates (20 had appeared in livrs. 1-4). . . . Livrs. 1-4 appeared in 1857 . . . livr. 5 seems to have appeared in Sept. 1857, and 12 in July 1858. Intervening dates . . . are unobtainable. The work appears to be rather rare. . . . The hand-colored plates are very fine." The drawings were made by Emile Blanchard, Paul Louis Oudart, and F. Willy.

Coues, 4:801-802; Nissen, 117; Ronsil, 58; Wood, 248; Zimmer, 78.

BONAPARTE, CHARLES LUCIEN JULES LAURENT; and HERMANN SCHLEGEL

322. 1850. Monographie / des / Loxiens / par / Ch. L. Bonaparte / et / H. Schlegel. / Ouvrage / accompagné de 54 planches coloriées, / lithographiées / d'après les

<sup>1</sup>Ronsil gives 57; his count should be 56, including, as it does, plate 27 (not issued?).

dessins / de / M. Bädeker / et autres naturalistes [*sic*]. / Leiden et Düsseldorf, / chez / Arnz & Comp. / 1850.

4to (30.1 × 21.5 cm). Pp. [6] i-xvii [xviii], 1-55; lith. col. plates 1-54.

*Contents*—Title, ded., and further ded. to the Queen of the Netherlands and signed Charles L. Bonaparte, 3 leaves; introd., pp. i-xvii, devoted to a discussion of the Fringillidae and near relatives (finches and allies) and a rather detailed classification of the group; text, pp. 1-55, treating an assemblage of forms roughly approximating the Carduelinae of recent authors. These are divided into 3 groups, the "premier groupe" (Loxiaceae) including *Loxia*, *Corythus*, *Carpodacus*, *Pyrrha*, *Erythrospiza*, *Uragus*, and, in an appendix (pp. 31-34), *Haematospiza* and *Chaunoproctus*. The "deuxième groupe" (Montifringillaceae) contains *Montifringilla* and *Fringalauda*, and the "troisième groupe" (Linotaceae) includes *Linota* and *Acanthis*, Zimmer listed the genera treated incompletely, and erred in his reference to the forms as the "subfamily Loxiaceae." The authors regarded the entire group as the subfamily Loxiinae (see pp. ii, xiii). For the genera and species treated are given descriptions, ranges, and discussion of relationships. A list of the excellent plates (according to Nissen, by F. W. J. Baedeker and H. Schlegel; lith. Arnz & Co., Düsseldorf) occupies pp. 52-55. Six of the 54 plates (23, 25, 29, 32, 34, 35) have slips pasted over the legends to bring them into conformity with the text. No designations of rank are given by the authors for their groups Loxiaceae, Montifringillaceae, and Linotaceae, which may be inferred to equal supergenera. Several new forms described are signed with Bonaparte's initials.

A competently executed monograph. Zimmer has given evidence for dating the work before November 11, 1850. According to Coues, the introduction (which was reprinted in 1851 in Jardine's *Contributions to ornithology*, pp. 27-47) is by Bonaparte, the text by Schlegel.

Anker, 49; Coues, 4:630; Nissen, 119; Zimmer, 67-68.

#### BOND, FRANK (1856-1940)

323. 1933. *My bird boarders* / Stories of Adventures at the Unique Cafeteria for / Birds, Conducted by The Author for the Past Twenty- / Five Years at Cleveland Park, Washington, D. C. / Illustrated by Frontispiece / In Color and Other Drawings / By the Author / By / Frank Bond / Foreword by / Dr. Theodore S. Palmer / Fellow, A.A.A.S., Fellow and Sec'y American / Ornithologist's [*sic*] Union / [*Emblem of Green Lamp Library.*] / Publishers / The Green Lamp League / International Building / Washington, D. C.

(19.1 × 12.6 cm). Pp. 1-104; front. (p. 12), 19 text-figs. (drawings by the author).

*Contents*—Title (copyright, 1933, on v.); foreword; "warning by the writer" (concerning purposes of the work); ded.; conts.; list of illustrs.; text (concerning methods of attracting birds, observations at feeding stations, comments on various species, etc.); a table of nomenclature of birds mentioned is found on pp. 102-104.

This little book contains many helpful hints for those wishing to attract birds

to their yards, interspersed with anecdotes which may prove amusing to younger lay readers.

Reviewed: *Auk*, 1933:378 (Witmer Stone).

BOND, JAMES (1900- )

324. 1936. *Birds of the West Indies* / By / James Bond, B. A. (Cambridge) / Research Associate in Vertebrate Zoölogy of the / Academy of Natural Sciences of Philadelphia / An account with full descriptions of / all the birds known to occur or / to have occurred on the / West Indian islands / January, 1936 / The Academy of Natural Sciences / of Philadelphia.

(18.6 × 12.6 cm). Pp. i-xxiv, [2], 1-456; col. front., 157 text-figs. (line-cuts, by Earl L. Poole), endpaper map (front only).

*Contents*—Title; ded.; conts.; list of illustrs.; introd., pp. xiii-xxii (a general survey of the West Indian avifauna); acknowledgements, pp. xxiii-xxiv; diagram of a bird, 1 leaf; text, pp. 1-434, an annotated list treating the birds of the area with brief descriptions of families and genera, and accounts of species giving currently accepted names, local names, descriptions, ranges, and status in the West Indies (considered to include "Bahama Islands, the Greater Antilles, including the Cayman and Swan Islands, and the Lesser Antilles, south to Grenada"); systematic list of the forms, with certain symbols denoting status, pp. 411-434; index (common names, pp. 435-441; local names, pp. 442-456).

A useful guide and summary of information, based on many years of field experience in the area and valuable to scientist and layman alike. A series of related works have followed: the author's *Check-list of birds of the West Indies* (Philadelphia, Academy of Natural Sciences) has been through three editions (1940, 1945, 1956; review of last in *Ibis*, 1956:661), and his *Field guide to birds of the West Indies* was published (New York, MacMillan) in 1947 (*cf. Auk*, 1948: 318).

Reviewed: *Auk*, 1936:105 (Witmer Stone); *Ibis*, 1936:387.

BONHOTE, JOHN JAMES LEWIS (1875-1922)

325. 1907. *Birds of Britain* / By / J. Lewis Bonhote / M.A., F.L.S., F.Z.S. / Member of the British Ornithologists' Union / With / 100 illustrations in colour / selected by / H. E. Dresser / from his 'Birds of Europe' / [*Monogram*] / London / Adam and Charles Black / 1907.

4to (22.0 × 15.7 cm). Pp. i-x [2], 1-404 [405-406], 1-8; col. front., 99 col. plates (by J. G. Keulemans, numb. 1-100 in list of plates; 108 species figured), 1 diagr.

*Contents*—Half-title, p. i; title, p. iii (dated November, 1907, on v.); pref., pp. v-vi; list of illustrs., pp. vii-x; 1 leaf (diagram of bird on v.; r. blank); text, pp. 1-399; index, pp. 401-405; advt., pp. 1-8. The text briefly and informally describes each species known to occur in Great Britain, with comment on habits, nesting, appearance, range, and personal observations when possible.

A popular but informative and scientifically creditable work, designed, despite

its considerable bulk, for a field manual. The plates are reproduced from Dresser's "Birds of Europe." It is said to have been reprinted in 1912, 1914, 1917, and 1919 without important change, and an enlarged edition called *Birds of Britain and their eggs* was published in 1923, with three added plates of eggs.

Anker, 50; Mullens and Swann, 79-81; Nissen, 120; Wood, 248; Zimmer, 78-79.  
Reviewed: *Ibis*, 1908:523-524.

BONNET, CHARLES (1720-1793)

326. 1762. *Considerations / sur les / corps organisés, / Où l'on traite de leur Origine, de leur Développement, / de leur Réproduction, &c. & où l'on a rassemblé en / abrégé tout ce que l'Histoire Naturelle offre de plus / certain & de plus intéressant sur ce sujet. / Par C. Bonnet; / des Académies d'Angleterre, de Suède, de l'Institut / de Bologne, Correspondant de l'Acad. Royale / des Sciences, &c. / Tome premier [second]. / [Device] / À Amsterdam, / Chez Marc-Michel Rey, / MDCCLXII.*

2 vols. in one, 8vo (20.3 × 12.2 cm).

Vol. I: Pp. i-xliii [xliiii-xliv], 1-274.

Vol. II: Pp. i-xx, 1-328.

*Sigs.*—Vol. I: \*—\*\*<sup>8</sup> \*\*\*\*<sup>6</sup>, A-R<sup>8</sup> S<sup>2</sup>; 160 leaves (S<sup>2</sup>, probably blank, wanting).  
Vol. II: \*<sup>8</sup> \*\*<sup>2</sup>, A-V<sup>8</sup> X<sup>4</sup>; 174 leaves.

*Contents*—Vol. I: half-title; title; pref., pp. v-xviii (dated at Geneva, 1 March 1762); conts.; corrections; text, in chapters I-XII, devoted to detailed consideration of the supposed origins, and the methods of development and reproduction, of many forms of life. Birds are mentioned occasionally, particularly at p. 150 (embryology of chick). Vol. II: half-title; title; conts.; text, in chapters I-VIII, continuing text of first vol.

This work is of interest to students of the history of biology; it is included herein also because of its brief references to birds.

Also in the Ellis Collection is a set of the *Collection complete des oeuvres de Charles Bonnet* in 10 vols., Neufchatel, 1779-1783, in which the present work is reprinted as vol. III (1779). Several multi-volume editions of the author's *Oeuvres d'histoire naturelle et de philosophie* contain the present work (cf. BMNH, Wood).

BMNH, I:197; Nordenskiöld, 243-248 (hist., biogr.).

BOOTH, EDWARD THOMAS (1840-1890)

327. 1876. *Catalogue / of the / cases of birds / in the / Dyke Road Museum, / Brighton. / Giving a few Descriptive Notes, and the Localities in which the / Specimens were obtained. / By / E. T. Booth. / Brighton: / George Beal, printer, bookseller and stationer, / 207, Western Road. / 1876.*

8vo (21.0 × 13.8 cm). Pp. [4] 1-219.

*Contents*—Title and introd., 2 leaves, text, or "catalogue of birds," pp. 1-219, arranged by cases (1-306) as exhibited in the collection. Collection restricted

"entirely to birds that have fallen to [Booth's] own gun during various excursions in the British Islands." Included are many valuable locality records and interesting observations.

The first edition of a guide-book which contains a considerable amount of original information on local natural history. The cases referred to are of the type now widely, if perhaps incorrectly, referred to as dioramas, or "habitat groups," and the claim is made in a later edition (1896, p. viii) that Booth was the originator of this technique as applied to the exhibition of birds, the practice then having spread, it is alleged, to the British Museum (Natural History). Such groups, however, appear to have been displayed in Philadelphia, by the remarkable Charles Willson Peale (father of the bird artist, Titian Peale), possibly as early as 1784 (see Stone, W., *Cassinia*, 1915:2-3).

Another example in the collection represents a later issue to which has been added a printed index of 8 pp. and a notice printed in red, these immediately following title. Extensive alterations in and additions to the text (and to the added index as well) have been made by pasting printed slips in appropriate places, without affecting pagination. A note pasted to the end of the index tells us: "There is no space in the present building for any cases beyond 306. The . . . notes . . . do not go above that number."

The work has a complex history and it is impossible with material at hand to determine the exact number of editions and impressions. Before me are editions (Nos. 327-331) dated 1876 (present edit., 2 variants), 1896, 1901, 1911, and 1927, each incorporating revisions and additions. From 1896 forward these are identified in titles as the second through fifth editions, respectively, and seem to represent the principal editions of the work. Reference by Mullens and Swann to both "third" and "fourth" editions, of 1901, and a "sixth" edition, of 1904, is perplexing. It seems likely that these authors confused a series of editions of the distinct and less ambitious *Index catalogue* of the Booth Collection (4th edit., 1895, 6th edit., 1904; Nos. 333, 334) with the present work. The *Index Catalogue* further, seems to have appeared both with and without plates, and there are probably other peculiarities.

Mullens and Swann, 82-84 (hist., biogr.).

328. 1896. [*Device*] / *Catalogue* / of the / cases of birds / in the / Dyke Road / Museum, / Brighton. / Giving a few descriptive notes, and the localities in which the / specimens were found. / By / E. T. Booth. / Second edition. / 1896. / All rights reserved. / Brighton: / King, Thorne & Stace, printers, / 4 and 5 Jubilee Street. / 1896.

8vo (21.7 × 13.9 cm). Pp. [2] i-xi [xii], 1-217; front., 16 fotogr. plates (front duplicated at p. 153; 1 portr., 15 ornith., of birds in cases).

*Contents*—1 blank leaf; half-title; title; list of illustrs.; introd. to 2nd edit. (by A. F. Griffith); introd. to 1st edit. (by Booth); history of collection, pp. VII-XI (by Griffith?); text, much as in 1st edit., incorporating, however, all additions and corrections made by the author, and including reference to his major work, the "Rough notes" (No. 332). The photographs are new.

Ostensibly the second edition (1st edit., No. 327). The added introductory matter is of interest. The biographical matter seems to have been the source of Mullens and Swann's account (pp. 82-83), but is more extensive than theirs. Bookplate and autograph: Francis Hubert Barclay.

329. 1901. [*Device*] / Catalogue / of the / cases of birds / in the / Dyke Road Museum / Brighton. / Giving a few descriptive notes, and the localities in which the / specimens were found. / By / E. T. Booth. / Third edition. / 1901. / All rights reserved. / Brighton: / King, Thorne & Stace, printers, / 4 and 5 Jubilee Street.

8vo (21.2 × 13.7 cm). Pp. i-xii, 1-232; front., 24 photogr. plates (1 portr.; remainder mainly ornith., of birds in cases).

*Contents*—Half-title; title (with pasted slip stating: "Bound in cloth gilt, two shillings."); list of illustrs.; introd. to 3rd edit. (by A. F. Griffith, dated at Brighton, 1901); introd. to 2nd edit.; introd. to 1st edit.; history of collection, pp. ix-xi; note, p. xii; text, much as in earlier edits., describing contents of cases 1-327 and miscellaneous cases, pp. 1-219; pp. 220-223 describe various civic features of Brighton; index, pp. 225-232.

The third edition (1st edit., 1876; No. 327). Considerable material is here added, relevant mainly to accessions made since the second edition (No. 328).

The Ellis copy lacks the plate facing p. 67 (a duplicate of the frontispiece).

Wood, 249.

330. 1911. [*Device.*] / Catalogue / of / cases of birds / in the / Dyke Road Museum, / Brighton, / Giving a few descriptive notes, and the localities in which / the specimens were found. / By / E. T. Booth. / With further notes / by / A. F. Griffith. / Fourth edition / (With 24 Illustrations). / All rights reserved. / Brighton: / Printed by King, Thorne & Stace, Jubilee Street, / and Published by / The Brighton Library, Museums & Fine Arts Committee. / 1911 / Price—1/6.

8vo (20.7 × 13.6 cm). Pp. i-xvi, 1-255 (end of ornith. text), 256-257 (information on surrounding areas of interest), 6 pp. (adv.); front., 23 photogr. illustrs. (21 ornith.).

*Contents*—Title; introd. to 4th edit. (by Griffith, dated July 1911); introd. to 1st edit.; history of collection, pp. v-xiv, giving details of numerous accessions made subsequent to edit. of 1896, with biographical material concerning the donors; list of illustrs.; note; text, much as in earlier edits., with the addition of editorial notes in a distinguishing typeface.

According to title, the fourth edition (see Nos. 327-329). Bound into the present copy (between title and introd.) is a copy of the fourth edition of the small *Index catalogue* of the collection, dated 1895 (No. 333). Still another edition appeared, in 1927 (No. 331). The collation of the present edition seems to be the same as that of a copy listed by Mullens and Swann (p. 84) as "fourth edit., 1901(?)" [1911?].

31. 1927. *Catalogue of cases of birds in the Dyke Road Museum, Brighton.*

[As No. 330: 14 lines] / **Fifth edition** / (With 31 Illustrations). / [*Idem*, 5 lines] / January, 1927.

8vo (20.7 × 13.7 cm). Pp. [2] i-xxvi, 1-290 (end of ornith. text), [10] Wank; front. (portr.), 30 photogr. plates (mainly of birds in cases).

*Contents*—1 leaf; title; introd. to 5th edit. (by Griffith, dated 1926); introd. to 1st edit.; history of collection, pp. x-xxiv, containing notes pertaining to accessions, etc., made since the edit. of 1911; list of illustrs.; note; errata; addendum; text, much as in earlier edits., with annotations by the editor, here in distinguishing typeface; 1 blank leaf; 4 leaves (advt.).

According to title, the fifth edition of the work, which had been continually expanded since publication of the first edition in 1876 (No. 327). It is said in this edition that the original number of 306 cases had been increased by 1927 to 466 numbered cases, plus incidental material. The descriptions of the birds in the added cases account for most of the progressive enlargement of the work (see Nos. 327-330).

Wood, 249.

32. 1881-87. *Rough notes / on the / birds observed / during twenty-five years' shooting and collecting / in the / British Islands / by / E. T. Booth. / With plates from drawings by E. Neale, / taken from specimens in the author's possession. / Volume I [-III]. / London: / published by R. H. Porter, 6 Tenterden Street, W., / and / Messrs. Dulau & Co., Soho Square, W. / 1881-1887.*

3 vols., folio (42.7 × 33.5 cm).

Vol. I: Pp. i-vii [viii-xii], 117 text leaves; 35 lith. col. plates, 2 text-figs.

Vol. II: Pp. i-v [vi-viii], 132 text leaves; 31 lith col. plates, col. map.

Vol. III: Pp. i-v [vi-viii], 112 text leaves; 48 lith. col. plates, col. map, 1 text-fig.

*Contents*—Vol. I: title; introd., pp. iii-iv (dated May 1887); conts. of vol. I, pp. v-vii; list of plates, p. [ix]; errata, p. [xi]; text, consisting of separately-paged notes (for individual pagination see below) concerning 79 species (hawks etc., owls, shrikes, tits, flycatchers, kingfishers, crows and jays, nuthatches, wrynecks, creepers, woodpeckers, cuckoos, nightjars, swifts, swallows, wagtails and pipits, larks, finches and allies, starling, and dipper). Vol. II: title; conts. of vol. II, pp. iii-v; list of plates, p. vii; text, consisting of separately paged notes concerning 81 species (thrushes, orioles, hoopoes, accentors, warblers, wrens, pigeons, grouse and allies, stone curlews, plovers, sandpipers etc., herons, storks and allies, and rails; not necessarily grouped by taxonomic affinity). Vol. III: title; conts. of vol. III, pp. iii-v; list of plates, p. [vii]; text, consisting of separately paged notes concerning 62 species (ducks and geese, grebes and loons, alcids, cormorants, gulls, terns, and skuas, and petrels). The plates throughout are by Edward Neale and are in the main adequate or better, but generally uninspired; where species exhibit variable plumage several plates are given for one. Not all of the species discussed are figured.

One of the major 19th century source works of British ornithology. The

author was an active field ornithologist and a discriminating observer and this work, based almost entirely on his own observations and collections over much of the British Islands through 25 years, was progressive for its times in its attention to habits and behavior, plumages, colors of soft-parts, etc. Its text conveys an idea of hunting and field ornithology in England under conditions which can no longer be duplicated. Neale's drawings were made from the author's specimens, housed in the Dyke Road Museum, Brighton (see No. 327).

The collation and minimal statement of contents given above was taken from a complete, bound set (42.7 × 33.5 cm). The work was originally published in 15 parts, 1881-87, each with title and in heavy boards short-titled and decorated with an engraving of the Golden Eagle. Upon completion of the work, a revised title page, a table of contents, and a list of illustrations were provided for each of the three volumes, and an introduction to the whole (part one contains a "temporary introduction" not intended for inclusion in completed sets). A complete set of the parts, in boards as delivered (43.3 × 34.3 cm), is also in the Ellis Collection. The titles are as follows:

[*Idem*, 3 lines] / during twenty years' shooting and collecting / [*Idem*, 6 lines]<sup>1</sup>  
Part I [-XV]. / [*Lists of conts. for each part, set in two columns*] / [*Imprint: idem*, 4 lines] / 1881[-1887].

Zimmer went to great pains to determine, from reviews and other sources, the contents and dates of the original parts. The useful list resulting is nevertheless incomplete and partly in error. I here give the dates and contents of each part as determined from the perfect set at hand.

Part I, 1881: Title (1 leaf); temporary introd. (1 leaf; dated September 1881); text (17 leaves); 8 plates. Descriptions of Golden Eagle (pp. 1-6, 4 plates), White-tailed Eagle (pp. 1-10, 1 plate), Osprey (pp. 1-6, 1 plate), Kite (pp. 1-12, 2 plates; 1 plate to be added later according to note in square brackets at end of introd.).

Part II, 1882: Title (1 leaf); text (26 leaves); 8 plates (13 listed in conts. given in title; a slip tipped inside cover states that the missing plates will appear in future parts. They are: 1 of Short-eared Owl, 1 of Barn Owl, 1 of Crested Tit, 2 of Bearded Tit—as well as the 1 of Kite to be added according to Part I, see above. All appear in Part III.). Descriptions of Common Buzzard (pp. 1-4, 2 plates), Peregrine Falcon (pp. 1-6, 1 plate), Merlin (pp. 1-2, 1 plate), Kestrel (pp. 1-4), Sparrow-Hawk [*Accipiter nisus*] (pp. 1-2, 1 plate), Marsh-Harrier (pp. 1-2), Hen-Harrier (pp. 1-2, 1 plate), Short-eared Owl (pp. 1-2, 1 plate; 1 plate to follow, see above), Long-eared Owl (pp. 1-2, 1 plate), Tawny Owl (1 p.), Barn-Owl (1 p.; 1 plate to follow, see above), Red-backed Shrike (pp. 1-2), Great Tit (1 p.), Coal Tit (1 p.), Crested Tit (1 p.; 1 plate to follow, see above), Blue Tit (1 p.), Marsh-Tit (1 p.), Long-tailed Tit (1 p.), Bearded Tit (pp. 1-2; 2 plates to follow, see above), Pied Flycatcher (1 p.), Spotted Flycatcher (1 p.), Kingfisher (pp. 1-2).

Part III, 1882: Title (1 leaf); text (29 leaves); 8 plates. Six of the plates were supposed to have appeared in parts I and II (see above). These are: male Kite (omitted from part I), Short-eared Owl in winter plumage, Barn Owl, Bearded Tit (2), and Crested Tit (all omitted from part II). Two plates (Raven, Crossbill)

<sup>1</sup>pt Part I, where a full stop is added after "British Islands" (line 6).

listed in conts. given in title as occurring here are, according to tipped in slip inside cover, to appear later. They are found in part IV. Descriptions of Raven (pp. 1-3; 1 plate to follow, see above), Black Crow (pp. 1-4), Grey Crow (pp. 1-5, 1 plate), Jackdaw (pp. 1-2), Chough (pp. 1-3), Magpie (pp. 1-3), Jay (1 p.), Nuthatch (1 p.), Wryneck (pp. 1-2), Creeper (1 p.), Green Woodpecker (pp. 1-2), Great Spotted Woodpecker (pp. 1-3), Lesser Spotted Woodpecker (pp. 1-2), Nightjar (pp. 1-2, 1 plate), Swift (1 p.), Swallow (pp. 1-4), House-martin (pp. 1-3, 1 text-fig.), Sand-martin (pp. 1-2), Crossbill (pp. 1-2; 1 plate to follow, see above), Wren (1 p.).

Part IV, 1883: Title (1 leaf); text (25 leaves); 8 plates. (Title calls for 6; 2 are carried over from part III, *i.e.*, Raven, Crossbill). Descriptions of Pied Wagtail (pp. 1-2), White Wagtail (pp. 1-2), Grey Wagtail (pp. 1-2), Grey-headed Wagtail (1 p., 1 plate), Yellow Wagtail (1 p., 1 plate), Meadow-pipit (pp. 1-4), Tree-pipit (1 p.), Rock-pipit (pp. 1-3, 1 plate), Redstart (pp. 1-2), Black Redstart (pp. 1-2, 1 plate), Stonechat (1 p.), Whinchat (1 p.), Wheatear (pp. 1-3, 1 plate), Grasshopper Warbler (pp. 1-2), Garden-warbler (1 p.), Whitethroat (pp. 1-2), Lesser Whitethroat (1 p.), Wood-wren (pp. 1-2), Willow-wren (pp. 1-3, 1 plate), Chiffchaff (pp. 1-4).

Part V, 1883: Title (1 leaf); text (24 leaves); 8 plates. Descriptions of Shore-lark (pp. 1-2), Wood-lark (pp. 1-2), Bunting (1 p.), Black-headed Bunting (pp. 1-2), Yellow Bunting (pp. 1-2), Cirl Bunting (pp. 1-2), Chaffinch (pp. 1-3), Brambling (pp. 1-2), Sedge-warbler (pp. 1-2), Reed-warbler (pp. 1-2), Nightingale (pp. 1-2), Curlew (pp. 1-4), Red-breasted Merganser (pp. 1-4, 2 plates), Gannet (pp. 1-15, plates I, II, 3-6).

Part VI, 1884: Title (1 leaf); text (24 leaves); 8 plates (including one of Red-breasted Merganser, adult male in winter, evidently carried over from part V but not mentioned in conts. of parts V or VI). Descriptions of Starling (pp. 1-3), Dipper (pp. 1-2), Fieldfare (pp. 1-2), Thrush (pp. 1-3), Blackbird (pp. 1-4), Blackcap (pp. 1-2), Ptarmigan (pp. 1-9, 3 plates), Peewit [Lapwing] (pp. 1-3), Redshank (pp. 1-4), Purple Sandpiper (pp. 1-2), Coot (pp. 1-4), Arctic Skua [*Stercorarius parasiticus*] (pp. 1-6, plates I-IV).

Part VII, 1884: Title (1 leaf); text (24 leaves); 8 plates. Descriptions of Rook (pp. 1-6), Tree-sparrow (pp. 1-2), Redwing (pp. 1-2), Golden-crested Wren (pp. 1-3), Whimbrel (pp. 1-3), Eider (pp. 1-5, plates I-III), Goosander (pp. 1-5, plates I-II), Common Gull (pp. 1-4), Herring-gull (pp. 1-5), Pomatorhine Skua (pp. 1-7, plates I-III).

Part VIII, 1884: Title (1 leaf); text (24 leaves); 8 plates. Descriptions of Montagu's Harrier (pp. 1-4, 1 text-fig., plates I-II), Greenfinch (pp. 1-2), Twite [*Linota*] (pp. 1-2), Missel-thrush (pp. 1-2), Quail (pp. 1-2), Woodcock (pp. 1-5, plates I-II), Jack Snipe (pp. 1-4), Land-rail (pp. 1-2), Spotted Crake (pp. 1-2), Brent Goose (pp. 1-3), Whooper [Swan] (pp. 1-3, 1 plate), Pochard (pp. 1-5, 1 plate), Golden-eye (pp. 1-3, 1 plate), Long-tailed Skua (pp. 1-3, 1 plate).

Part IX, 1885: Title (1 leaf); text (24 leaves); 8 plates. Descriptions of Cuckoo (pp. 1-3), Lark (pp. 1-3), Hedge-sparrow (pp. 1-2), Dartford Warbler (1 p.), Wood-pigeon (pp. 1-2), Turtle-dove (pp. 1-2), Dotterel (pp. 1-3, 1 plate),

Black-tailed Godwit (pp. 1-2, 1 plate), Water-rail (pp. 1-2), Moorhen (pp. 1-2), Shoveller (pp. 1-3, plates I-III), Great Crested Grebe (pp. 1-3, 1 plate), Lesser Black-backed Gull (pp. 1-4), Great Black-backed Gull (pp. 1-6, 1 plate), Fulmar (pp. 1-3, 1 plate).

Part X, 1886: Title (1 leaf); text (24 leaves); 8 plates. Descriptions of House-sparrow (pp. 1-5, plates [I]-II), Bullfinch (pp. 1-2), Redbreast (pp. 1-5), Black Grouse (pp. 1-5, 1 plate), Red Grouse (pp. 1-10, 1 plate), Spoonbill (pp. 1-2, 1 plate), Grey-lag Goose (pp. 1-4, 1 plate), White-fronted Goose (1 p.), Scoter (pp. 1-3, 1 plate), Smew (pp. 1-2, 1 plate), Sclavonian Grebe (pp. 1-2), Little Grebe (pp. 1-2).

Part XI, 1886: Title (1 leaf); text (24 leaves); 7 plates, 1 map. Descriptions of Ring-ouzel (pp. 1-2), Rock-dove (pp. 1-2, 1 plate), White Stork (pp. 1-2), Turnstone (pp. 1-2), Spotted Redshank (pp. 1-2), Snipe (pp. 1-10, 1 plate), Curlew Sandpiper (pp. 1-3, 1 plate), Knot (pp. 1-6, 1 plate), [map of Breydon mudflats] Scaup (pp. 1-2), Puffin (pp. 1-3, 1 plate), Razorbill (pp. 1-2), Cormorant (pp. 1-2), Roseate Tern (pp. 1-2, 1 plate), Arctic Tern (pp. 1-3), Little Gull (1 p., 1 plate).

Part XII, 1886: Title (1 leaf); text (25 leaves); 6 plates; 1 map (A notice to subscribers on slip tipped inside cover states: "It was my intention to issue Eight Plates with each Part . . . only Seven are bound up herewith. Part XIII will contain Nine Plates." Maps are evidently counted as plates in this connection, though they are not so listed in contents.). Descriptions of Siskin (pp. 1-2, 1 plate), Linnet (pp. 1-2), Lesser Redpoll (pp. 1-2), Mealy Redpoll (1 p.), Stock-dove (1 p.), Ringed Plover (pp. 1-2), Kentish Plover (1 p.), Sanderling (pp. 1-2), Greenshank (pp. 1-2), Oystercatcher (1 p.), Common Sandpiper (pp. 1-2, 1 plate), Bar-tailed Godwit (pp. 1-3), Little Stint (pp. 1-2, 1 plate), Temminck's Stint (pp. 1-2, 2 plates), Bean-geese (pp. 1-2), [map of Hickling Broad] Mute Swan (pp. 1-2), Black-throated Diver (pp. 1-2), Velvet Scoter (pp. 1-3), Red-throated Diver (pp. 1-2), Black Guillemot (pp. 1-2), Eared Grebe (pp. 1-2, 1 text-fig., A and B), Sandwich Tern (pp. 1-2, 1 plate), Manx Shearwater (pp. 1-2).

Part XIII, 1886: Title (1 leaf); text (29 leaves); 9 plates (the additional plate promised by the slip in part XII is of the Cuckoo, described in part IX). Descriptions of Hoopoe (pp. 1-2, 1 plate), Green Sandpiper (pp. 1-2), Golden Oriole (pp. 1-2, 1 plate), Pheasant (pp. 1-3), Capercaillie (pp. 1-7, 1 plate), Common Partridge (pp. 1-10), Red-legged Partridge (pp. 1-3), Stone-curlew (pp. 1-5, 1 plate), Heron (pp. 1-4, 1 plate), Wood-sandpiper (pp. 1-2), Gadwall (1 p., 1 plate), Pintail Duck (pp. 1-2), Garganey [Teal] (pp. 1-2), Common Teal (pp. 1-3), Red-necked Grebe (pp. 1-4, 2 plates).

Part XIV, 1887: Title (1 leaf); text (29 leaves); 8 plates. Descriptions of Goldfinch (pp. 1-2), Hawfinch (pp. 1-3), Shag (1 p.), Bewick's Swan (pp. 1-3), Tufted Duck (pp. 1-2), Long-tailed Duck (pp. 1-3), Golden Plover (pp. 1-3), Grey Plover (pp. 1-3), Grey Phalarope (pp. 1-2, 1 plate), Lesser Tern (pp. 1-2), White-winged Black Tern (pp. 1-2), Black Tern (1 p.), Kittiwake (pp. 1-4, 1 plate), Glaucous Gull (pp. 1-2, 1 plate), Black-headed Gull (pp. 1-4, 2 plates), Stormy Petrel (pp. 1-4, 1 plate), Great Northern Diver (pp. 1-3), Common Guillemot (pp. 1-5, 2 plates).

Part XV, 1887: Title (1 leaf; to pt. XV); text (13 leaves). Accessory matter as follows: for vol. I, title, introd., conts., list of plates, and errata (in all 6 leaves, pp. i-vii [viii-xii]); for vol. II, title, conts., and list of plates (in all 4 leaves, pp. i-v [vi-viii]); for vol. III, title, conts., and list of plates (in all 4 leaves, pp. i-v [vi-viii]). Total leaves, part XV, 28. Four plates (of Ruff and "Reeve." Conts. on part-title calls for 1 plate, but 4 are correctly listed—Mullens and Swann to the contrary—in list of plates for vol. II). Descriptions of Snow-bunting (pp. 1-2), Bittern (pp. 1-2), Common Sheld-duck (pp. 1-3), Wigeon [*sic*] (pp. 1-3), Mallard (pp. 1-2), Dunlin (pp. 1-2), Ruff (pp. 1-5, 4 plates), Common Tern (pp. 1-3).

Total: 15 parts with titles, 361 text-leaves, 15 accessory leaves, 114 plates, 2 maps, 3 text-figs.

Anker, 51; BMNH, I:199; Mullens and Swann, 82-84 (hist., biogr.); Nissen, 121; Wood, 249; Zimmer, 79-81. Reviewed: *Ibis*, 1883:377 (pts. I-III); 1884:101-102 (pt. IV); 1886:191-192 (pts. V-IX); 1887:246-247 (pts. X-XIII).

333. 1895. [*Device*] / **The / Booth Collection / of / British birds / Dyke Road, Brighton. / Index catalogue. / Fourth edition. / Brighton: / King, Thorne & Stace, Printers, 4 & 5 Jubilee Street. / 1895.**

8vo (20.7 × 13.6 cm). Pp. 1-15.

*Contents*—Title, p. 1; text, devoted to "history of the collection," pp. 3-7, and an index of specimens and case numbers, pp. 8-15.

Of little general interest. The fourth edition, according to title, of a brief guide-book to the well known Booth collection of mounted birds, more thoroughly described in the larger *Catalogue* (No. 327, etc.), first published in 1876. Although Mullens and Swann (p. 84) seem to have confused the present *Index catalogue* with the *Catalogue* series, the two appear to be quite distinct, with the various editions numbered separately for each series. The present copy is bound with a copy of the *Catalogue*, edition of 1911. In the Collection is another edition of the *Index catalogue*, dated 1904 (No. 334).

334. 1904. [*Device*] / **The / Booth Collection / of / British birds / Dyke Road, Brighton. / Open on week days from 11 a.m. to Dusk. / And on Sunday afternoons. / Admission free. / Index catalogue / Sixth edition. / Brighton: / C. . . & Son, Printers, 105, Church Street. / 1904. [*Cover-title*]**

8vo (21.2 × 13.7 cm). Pp. 1-16; front., fotogr. plate.

*Contents*—Text (headed: "Dyke Road Museum of / British birds."), devoted to "history of the collection" (pp. 1-4), and an index of specimens and numbers (pp. 5-9); pp. 10-16 describe civic features of Brighton.

Another edition of the brief *Index catalogue* of the Booth Collection (see 333). This may be the "abbreviated 6th edit." of 1904 referred to by Mullens and Swann (p. 84).

## BORASTON, JOHN MACLAIR

335. 1905. *Birds by / land & sea / The record of a year's work / with field-glass and camera / by John Maclair Boraston / Illustrated by photographs / taken direct from nature / by the author / John Lane: The Bodley Head / London & New York, MDCCCCV. [Title in red and black.]*

8vo (22.2 × 14.4 cm, untrimmed). Pp. [2] i-xiv [xv-xvi], 1-281 [282], [6]; front, 51 photogr. plates.

*Contents*—1 blank leaf; half-title; title; pref. (dated September 1903); conts.; list of illustrs.; sectional half-title; text, pp. 1-277, in 13 unnumb. chapters named in the main for the months of the year, starting with September (The procession of the seasons is interrupted, at the end of May, by chapters entitled "Anglesey" and "Puffin Island," but resumes again with July); index (with sectional half-title), pp. 279-282; advt., 3 leaves.

Entertaining accounts of ornithological observations mostly made around Stratford, England, with a good deal of interesting material on bird behavior. The photographs are excellent. Bookplate: Lord Berkeley Paget.

Mullens and Swann, 84 (imprint dated 1904); Wood, 249; Zimmer, 81.

336. 1905. *Nature-tones / & undertones / being sketches of life in / the open illustrated by / photographs from nature / by J. Maclair Boraston / Sherratt & Hughes 65 Long Acre / London: 27 St. Ann St. Manchester / MDCCCCV.*

8vo (22.7 × 14.8 cm, untrimmed). Pp. [10] 1-233, i-vi; front., 17 photogr. plates (14 ornith.).

*Contents*—Half-title; title; acknowledgement (dated October 21, 1905); conts.; list of illustrs.; corrigenda; text, pp. 1-233, in 8 unnumb. chapters with ornithological content of popular nature containing some original and worthwhile observations; advt. and press-notices, pp. i-vi. Of particular interest are chapters headed "A young cuckoo" (pp. 57-84), "In pairing time" (pp. 126-156), "The home and country of a bird" (pp. 173-180), "The ploughing of the marsh" (pp. 181-209; observations on the Kestrel in relation to other species), and "Personality in birds" (pp. 210-233). The photographs are excellent.

Some of the observations buried in this entertaining book are interesting and of the type frequently published as "general notes" in the journals. Mullens and Swann (p. 85) either describe another edition (also Manchester, 1905) or err in transcription and collation.

BORCKHAUSEN, MORITZ BALTHASAR (1760-1806) *and others*

337. 1800-17. [*Teutsche / Ornithologie / oder / Naturgeschichte / aller / Vögel Teutschlands / in naturgetreuen / Abbildungen und Beschreibungen. / Herausgegeben / von / Borckhausen, Lichthammer, C. W. Bekker, Lembcke, und Bekker Junior. / In XXI Hefte. / Darmstadt, / im Verlage der Herausgeber.*]

Note.—Title taken from Zimmer.

22 parts in wrappers, folio (approximately  $51.3 \times 35.3$  cm, untrimmed). [84] leaves; 132 engr. col. plates<sup>1</sup> (by the Susemihls; from drawings by J. C. Susemihl, J. T. Susemihl,<sup>2</sup> E. E. Susemihl, H. Curtmann, and E. F. Lichthammer).

*Contents*—List of subscribers, 1 leaf; text, 83 leaves (80 leaves in German, 3 leaves in French), devoted to detailed description of the birds of Germany). The work was far from complete when terminated, only 79 species having been treated. For each is given much information under varied headings (for example: recognition marks, general remarks, habits, distribution, food, reproduction, hunting, economic value, destructiveness, enemies, synonyms, provincial names, variation), followed by a brief Latin diagnosis. Each species described is figured, sometimes in several plumages. The 3 French accounts duplicate the German writings on *Falco apivorus*, *Emberiza citrinella*, and *Sylvia phoenicurus* (Heft XIV, see below). The Ellis set lacks Heft XXII (see below).

An ambitious, rather sumptuous, and well executed faunal work said to have been conceived as a German equivalent of various works by Levaillant. So far as completed, it belongs with the essentially contemporary German works of Bechstein, Wolf and Meyer, and J. A. Naumann as one of the more important treatises of the time on German ornithology. The plates, although varying in quality, are extremely handsome in some cases. They lack Audubon's flair for design and color, but in authenticity of pose and structure, some of them equal his best efforts. The majority were drawn and engraved by the brothers Johann Conrad and Johann Theodor Susemihl, and a few are said (Anker, Nissen) to have been done by Erwin Eduard Susemihl, son of the former (see also above). The work is sometimes entered under Bekker, and more rarely under Susemil. It was reissued (as a partly new edition, little changed from the present) ca. 1837-41 (No. 338).

The exact details of publication are somewhat obscure. Considerable uncertainty is found in the bibliographic literature as to dates of publication, the makeup of a complete set, and the relationship of the present edition to the version of ca. 1837-41 (No. 338). The Ellis set, consisting as it does of 21 parts in the original wrappers, is thus of considerable interest. It lacks a 22nd part said to have been published in 1817 (Anker; Sitwell, Buchanan, and Fisher; Wood) and containing 6 more plates, bringing the total for the work to 132. The rarity of this 22nd part has resulted in the work frequently being catalogued under dates of 1800-1811, these being the extreme dates of the 21 parts in the Ellis Collection. A few sources, however (Engelmann; Heinsius; Newton; Stresemann) date the 21 parts 1800-1812, and it is possible that Heft XXI did not appear until 1812.

Some material of interest appears on the original blue wrappers, each of which bears a cover-title, list of contents, and, in many instances, a notice ("Nachricht") as well. Some of these notices concern the progress and intent of the work, and contain clues to dating the parts; several contain material actually supplementary to the text.

Besides indication of changes in authorship, and other important variations

<sup>1</sup>Zimmer gives 125; 126 seems to be the correct number for Hefte I-XXI, 132 for all 22 pts.

<sup>2</sup>Zimmer gives these names incorrectly as "T. C. Susemihl" and "T. Susemihl, Jr."

(stated below), many minor changes of spacing and punctuation occur in the cover-titles, of which Heft I (for example) bears the following:

Teutsche / [Etc.; *idem*, 9 lines] / Borkhausen, Lichthammer und Bekker dem Jüngern. / Ites Heft. / Subscriptionspreis netto pr. Heft: / a. Auf englischem Velinpappiere, Text und Kupfer 5 Gulden Rheinisch, oder 3 Thaler Sächsisch. / b. Auf holländischem Pappiere 3½ Gulden Rheinisch, oder 2 Thaler Sächsisch. / Darmstadt 1800, / im Verlage der Herausgeber. / gedruckt bei Ludwig Carl Wittich.

In Heft XIV an additional title, in French, appears on the inside of the back cover of the wrapper, with a French table of contents, the three French descriptions mentioned above, and a French notice ("avis"), corresponding to the "Nachricht," on the outside of the back. This title, which appears but once in the present set, is as follows:

Ornithologie / germanique / ou / histoire naturelle / de tous / les oiseaux d'Allemagne / représentés / dans les figures exactes / avec des descriptions. / Publiés / par / Borckhausen, Lichthammer, Ch. Guil. Bekker, Lembcke / et le Doct. G. Bekker. / Traduit de l'Allemand / par / l'auteur de l'entomologie Helvetique. / XIVme Cahier. / Darmstadt, 1806. / Chez les editeurs. / Imprimé chez Jean François Pierre Stahl.

The accompanying "Nachricht" and "avis" explain that the purpose of these French translations was to make the work useful to a wider audience. If sufficient demand developed as a result, the other parts were also to be reprinted in French. At least a few more were printed (at unknown dates), as shown by the presence of 17 leaves in French in a copy of the "second edition" of ca. 1837-41 (No. 338), but the anticipated demand may never have materialized in sufficient force to justify more.

Below are given the major details of publication and the contents of the 21 parts in hand. The names of birds below are given on the plates. Those used in the contents of the several parts differ in some cases and, although synonymies are included in each text account, only vernacular names are used as headings.

Authors (as given in cover-titles): Heft I, Borckhausen, Lichthammer und Bekker der Jünger; Hefte II-XIV, Borckhausen, Lichthammer, C. W. Bekker, Lembcke und Bekker der Jünger; Hefte XV-XIX, Borckhausen, Lichthammer, C. W. Bekker, Lembcke und Dr. Bekker (= Bekker der Jünger); Hefte XX-XXI, Dr. Bekker, Lichthammer, C. W. Bekker und Lembcke (note dropping of Borckhausen, and Bekker d.J. moved to senior position).

Printers: Hefte I-II, Ludwig Carl Wittich; Hefte III-V, Johann Franz Peter Stahl; Hefte VI-XIII, Johann Christoph Ferdinand Meyfarth; Hefte XIV-XXI, Johann Franz Peter Stahl.

#### Contents of the parts.

Ites Heft, 1800 (*post* December 1799): List of subscribers, 1 leaf; text, 6 leaves; 6 plates: *Falco peregrinus* (see also Heft XVIII), *Oriolus galbula*, *Colymbus glacialis*, *Ardea purpurea*, *Tetrao rufus*, *Turdus roseus*. Wrappers: conts.; "Nachricht" (comments on treatment of species, price, difficulties of production,

etc.; dated January 1800); announcement ("Ankündigung") of a German edition of Levaillant's *African birds* (signed Johann Matthaeus Bechstein).

IItes Heft, 1800 (December?): Text, 6 leaves; 6 plates: *Falco lagopus* (see also Heft XIII), *Pelecanus bassanus*, *Charadrius oediconemus*, *Tetrao urogallus* (2 plates, 2 leaves text), *Loxia coccothraustes*. Wrappers: conts.; corrections (to Heft I); "Nachricht" (dated December 1800); announcement of Levaillant (see Heft I).

IIItes Heft, 1801: Text, 5 leaves; 6 plates: *Strix otus*, *Picus martius*, *Procellaria pelagica*, *Anas crecca* (2 plates), *Emberiza nivalis*. Wrappers: conts.; "Nachricht" (largely devoted to answering criticisms of the work).

IVtes Heft, 1801: Text, 4 leaves; 6 plates: *Falco tinnunculus*, (2 plates), *Anas tadorna* (2 plates), *Charadrius himantopus*, *Motacilla alba*. Wrappers: conts.; "Nachricht."

Vtes Heft, 1802: Text, 5 leaves; 6 plates: *Falco milvus* (2 plates, 1 without name), *Recurvirostra avocetta*, *Rallus aquaticus*, *Columba palumbus*, *Loxia pyrrhula*. Wrappers: conts.; "Nachricht" (comment on marking of plates to show scale; if no mark, bird is life-sized).

VItes Heft, 1802 (*post* October 4): Text, 4 leaves; 6 plates: *Falco palumbarius* (2 plates) and *Falco gallinarius* (1 plate, all three being the Goshawk, *Accipiter gentilis*), *Corvus glandarius*, *Fulica atra*, *Motacilla suecica*. Wrappers: conts.; "Nachricht" (dated 4 October 1802; quelling rumor that 6th is last Heft).

VIItes Heft, 1803: Text, 4 leaves; 6 plates: *Strix aluco* (3 plates), *Yunx torquilla*, *Ardea minuta*, *Parus major*. Wrappers: conts.

VIIItes Heft, 1803: Text, 4 leaves; 6 plates: *Falco pygargus*, (2 plates), *Lanius spinitorquus*, *Anas acuta* (2 plates), *Fringilla montifringilla*. Wrappers: conts.

IXtes Heft, 1804 (*post* February): Text, 4 leaves; 6 plates): *Aquila leucophomma*, *Aquila haliaëtus* (2 plates), *Anas leucophthalmos* (2 plates), *Ampelis garrulus*. Wrappers: conts.; "Nachricht" (dated March 1804; containing corrections and comment *re* some species in Heften III-VII).

Xtes Heft, 1805: Text, 5 leaves; 6 plates: *Vultur percnopterus*, (2 leaves text), *Corvus cornix* (2 plates), *Sitta europaea*, *Tetrao bonasia* (2 plates). Wrappers: conts.

XItes Heft, 1805: Text, 4 leaves; 6 plates: *Falco albidus* (2 plates), *Alcedo ispida*, *Mergus merganser* (2 plates), *Fringilla montana*. Wrappers: conts.

XIItes Heft, 1805: Text, 3 leaves; 6 plates: *Strix bubo* (2 plates), *Anas clangula* (2 plates), *Podiceps cristatus* (2 plates). Wrappers: conts.

XIIItes Heft, 1805 (*post* October): Text, 1 leaf; 6 plates: plate and description of *Parus caudatus*. Five more plates are additional illustrations of species described and figured in earlier parts (*Falco lagopus*, 2 plates; *Picus marti* *Charadrius oediconemus*, *Himantopus vulgaris*). Wrappers: conts.; note, proper part of text, applying to the 5 added plates (dated November 1805).

XIVtes Heft, 1806 (*post* April): German text, 3 leaves; French text, 3 leaves; 6 plates: descriptions in both French and German, and plates, of *Falco apivorus* (4 plates), *Emberiza citrinella*, *Sylvia (Motacilla) phoenicurus*. Wrappers: both French and German cover-titles and conts; "Nachricht" and "avis" (dated May 1806).

XVtes Heft, 1807: Text, 4 leaves; 6 plates: *Falco subbuteo* (2 plates), *Corvus caryocatactes* (2 plates), *Loxia chloris*, *Parus coerulesus*. Wrappers: conts.; "Nachricht" (announcing the death of Borckhausen in November, 1806; signed Dr. Bekker).

XVItes Heft, 1808: Text, 4 leaves; 6 plates: *Lanius excubitor* (2 plates), *Corvus corax*, *Anas querquedula* (2 plates), *Parus cristatus*. Wrappers: conts.

XVIItes Heft, 1809: Text, 3 leaves; 6 plates: *Aquila ossifragus* (2 plates), *Strix brachyotos* (3 plates), *Lanius ruficeps*. Wrappers: conts.; "Nachricht" (announcing that 24 or 25 parts, the remainder to be devoted exclusively to German birds of prey, will complete Band I of the work, and promising issue of a title-page and other introductory matter at that point). As has been seen, no more than 22 parts were issued.

XVIIItes Heft, 1809: Text, 3 leaves; 6 plates: *Falco peregrinus* (1 leaf text; 3 plates; see also Heft I), *Falco abietinus*, *Falco aesalon* (2 plates). Wrappers: conts.

XIXtes Heft, 1810: Text, 3 leaves; 6 plates: *Gypaetos barbatus* (2 plates), *Strix noctua* (2 plates), *Lanius minor* (2 plates). Wrappers: conts.

XXtes Heft, 1811: Text, 2 leaves; 6 plates: *Falco nisus (major)* (2 plates), *Falco nisus (minor)*<sup>3</sup> (4 plates). Wrappers: conts.; "Nachricht" (promising the speedy conclusion of Band I in 27 or 28 parts; *cf.* Heft XVII, in which 24 or 25 parts were predicted).

XXIten Heft, 1811 (according to cover-title; dated 1812 by some authors—see above): Text, 3 leaves; 6 plates: *Aquila fulva* (2 leaves text; 3 plates), *Strix flammea* (3 plates). Wrappers: conts.

XXIIten Heft, 1817 (lacking; see above): Contents may be inferred to consist of 3 leaves and 6 plates, treating *Vultur cinereus* (2 plates), *Falco furvus* (2 plates), *Falco rufus* and *Falco rufus (minor)* (2 plates, 1 leaf text), these being the additional forms treated in the "issue" of *ca.* 1837-41 (No. 338).

Anker, 52; BMNH, I:202; Engelmann, 395; Heinsius, V:414; Newton, 17; Nissen, 907; Sitwell, Buchanan, and Fisher, 61; Stresemann, 298, 407 (relationship to

<sup>3</sup>Note this very early use of trinomial nomenclature. S. Dillon Ripley (*Yale Univ. Library Gaz.*, 29:90-91, Oct., 1954) has pointed out another case of similar usage in Wolf and Meyer's very rare *Naturgeschichte der Vögel Deutschlands*, in connection with the Coal Tit listed in that work as variety "*Parus ater albus*." Ripley remarked that this was "one of the first [trinomial] perhaps ever applied." Although this statement is a little extreme (*cf.* Stejneger, *Proc. U. S. Nat. Mus.*, 7:70-71, 1884 (1885)), it would nevertheless be interesting from a purely academic point of view to learn whether Wolf and Meyer's "trinomial" is earlier than the present one. In dating Wolf and Meyer's work, Ripley gave only the date of inception (1805), but the issue was not completed until 1821 (see BMNH, IV:2348). Neither name, of course, is a trinomial in the modern sense, that is, in expressing a subspecies concept, such usage having been first employed by Sundevall, Schlegel, and others about 1840-44 (Stejneger, *loc. cit.*).

Wolf and Meyer's *Naturgeschichte der Vögel Deutschlands*); Wood, 250; Zimmer, 81.

338. ca. 1837-41. *Deutsche / Ornithologie / oder / Naturgeschichte / aller / Vögel Deutschlands / in naturgetreuen / Abbildungen und Beschreibungen. / Herausgegeben / von / Dr. Bekker, Lichthammer, C. W. Bekker und Lembcke. / Neue Ausgabe. / I.-XXII. Heft / mit 132 Abbildungen. / Darmstadt. / im Verlage von Carl Wilhelm Leske.*

Folio (46.0 × 31.4 cm). 102 leaves; 132 engr. col. plates.

*Contents*—Title, 1 leaf; "Inhalt," 1 leaf; German text, 83 leaves; French text, 17 leaves. Most of the German text is identical or nearly identical with that described under the first edit. (1800-17, etc.; No. 337), but the following additions are incorporated: accounts and plates of *Vultur cinereus* (1 leaf; 2 plates), *Falco jurvus* (1 leaf; 2 plates), and *Falco rufus* and "*Falco rufus (minor)*" (1 leaf; 2 plates). These added species were presumably treated in the rare Heft 22 of the first edit. (1817), missing from the set described above. In addition to the 3 leaves in French issued with Heft 14 of the original edit., 14 more are present, these being translations of the German accounts of *Falco subbuteo*, *Corvus caryocatactes*, *Loxia chloris*, *Parus coeruleus*, *Lanius excubitor*, *Corvus corax*, *Anas querquedula*, *Parus cristatus*, *Aquila ossifraga*, *Strix brachyotos*, *Lanius ruficeps*, *Falco peregrinus*, *Falco abietinus*, and *Falco aesalon*. Thus the translated portion represents the German text of parts 14-18 of the first edition.

If the copy in hand is representative, the present version of this work is partly a second edition and partly another issue of the original text (No. 337), but the details of its publication are not clear. Wood even doubted the existence of a reissue, remarking that the dating, 1837-41, of the copy in BMNH was "surely an error." Similar dating, however, is given by Engelmann, Newton, and Sitwell, Buchanan, and Fisher. Further evidence of a reissue at approximately these dates is to be found in Heinsius, who dates the work 1837-44! I have no way of determining the contents of the parts comprising the reissue; the "Inhalt" indicates that arrangement was entirely different from that of the original issue.

Despite possession of a new title, from which Borckhausen's name is omitted, the copy in hand is only partly a new edition. The plates are from the same engravings as those of the first edition, and may all be old sheets. Some of the text appears to be from the same settings of type as the original; other parts have been reset. On reset pages the text usually agrees with the original word for word but differs slightly in spacing, line-endings, and (rarely) punctuation. Certain minor corrections have been made (these were first published on the wrappers of Heft 2, first edit.). A further minor difference is found in accounts of the present version accompanied by French translations (equalling parts 14-18 of first edit., part 14 only of which in the present copy contains leaves in French). In these, Latin diagnoses have been moved from the German to the French sections, necessitating some resetting of type in the former. Other changes may have escaped notice.

Evidence that many of the plates and at least some text leaves were held over from the first printing is found in the watermarks (many of which, unfortunately,

have been trimmed away). Several plates that first appeared in Hefte 1 and 2 of the first edition (1800) are on paper watermarked J. Whatman, 1794. Another is watermarked Gr. K. Real 1804 (*Alcedo ispida*, originally published in Heft 11, 1805). One text leaf ("Quackente," *Anas clangula*, Heft 12, 1805) seems to be watermarked "Real 1801."

While the text of the present version is similar to that of the first edition, and all ideas expressed may be taken as dating from 1800-1817 or thereabouts, it would be proper in citing the work or quoting from it to specify the version.

BMNH, I:202; Engelmann, 395; Heinsius, X:100; Newton, 17; Sitwell, Buchanan, and Fisher, 61; Wood, 250.

BORELLI, GIOVANNI ALFONSO (1608-1679)

339. 1680-81. *De / motu animalium / Io. Alphonsi Borelli / Neapolitani / Matheseos Professoris / Opus Posthumum. / Pars prima [altera]. [ / Sub iisdem faustissimis Reginae Christinae / auspiciis (Pars altera.)] / [Device.] / Romae, / Ex Typographia Angeli Bernabò. M. DC. LXXX [MDC. LXXXI]. / Superiorum permissu.*

2 vols., 4to (21.7 × 15.9 cm).<sup>1</sup>

Vol. I: Pp. [I2] 1-376 [377-388]; engr. fold. plates prima-decimaquarta (1-14).

Vol. II: Pp. [4] 1-520; engr. fold. plates decimaquinta-decimaoctava (15-18).

*Sigs.*—Vol. I: a<sup>6</sup>, A-Bbb<sup>4</sup>, Ccc<sup>2</sup>; 200 leaves. Vol. II: π<sup>2</sup>, A-Ttt<sup>4</sup>; 262 leaves.

*Contents*—Vol. I: title, a1<sup>r</sup>; printer's imprint, a1<sup>v</sup>; ded. (Christinae Reginae Augustae, etc.), a2<sup>r</sup>-a5<sup>v</sup>; Proœmium (introd.), a6<sup>r</sup>-a6<sup>v</sup>; Latin text, A-Zz3<sup>r</sup> (pp. 1-365), in chapters I-XXIII, each containing a number of "propositions" (consecutively numb. I-CCXXIV). Chapter I is introductory. The propositions are devoted to detailed discussion of the locomotion and physiology of animals in relation to the laws of physics. Index, Zz3<sup>v</sup>-Ccc2<sup>r</sup> (pp. 366-387). Vol. II: title, π1<sup>r</sup>; printer's imprint, π1<sup>v</sup>; ded., π2; text, A-Rrr3<sup>r</sup> (pp. 1-501), in chapters I-XXI and XVII *bis* (22 in all), containing propositions I-CCXXXIII; index, Rrr3<sup>v</sup>-Ttt4<sup>v</sup> (pp. 502-520). The plates are detailed diagrams illustrating the text.

The first edition of a classic work by a pioneer in theoretical zoology, containing one of the earliest attempts to explain bird flight according to scientific principles. The twelfth plate of the first volume contains diagrams of bird flight, while the first plate of the second analyzes the structure and motion of a woodpecker's remarkable tongue. These and other ornithological matters are discussed in the text. Later editions appeared in 1685 and 1743 (Nos. 340, 341). An English translation of the part of the work dealing with bird flight was published in 1911 by the Aeronautical Society of Great Britain (Strong, I:165). Bookplate: Thomas Clifford Allbutt / MA.MD.FRS / Regius Professor / of Physic / St. Radegunds, / Cambridge.

Nordenskiöld, 151-154 (hist., biogr.); Osler, 2087 (crit.); Stresemann, 359 (crit.); Wood, 249.

<sup>1</sup> An untrimmed copy measures 23.8 × 17.5 cm.

340. 1685. Joh. Alphonsi Borelli / Neapolitani Matheseos Professoris, / *De / motu / animalium / pars prima [secunda].* [ / Sub iisdem faustissimis Reginae / Christinae auspiciis (*Pars secunda.*)] / *Editio Altera. / Correctior & emendatior. / [Orn.] / Lugduni in Batavis. / Apud Cornelium Boutesteyn, Danielema à Gaesbeeck, / Johannem de Vivie & Petrum vander Aa. / Anno M DC LXXXV.*

The imprint of "Pars secunda" differs as follows:

Apud Cornelium Boutesteyn, Petrum vander Aa, / Johannem de Vivie, & Daniel-  
emà Gaesbeeck, / Anno M DC LXXXV.

2 vols. in one, 4to (19.7 × 15.0 cm).

Vol. I: Pp. [16] 1-274 [275-292] (pp. 273, 274, misnumb. 279, 280).

Vol. II: Pp. [4] 1-365 [366-380]; engr. fold. plates I-XVIII.

*Sigs.*—Vol. I: A-B<sup>4</sup> (signed in small caps.), A-Nn<sup>4</sup>, Oo<sup>2</sup>; 154 leaves. Vol. II: π<sup>2</sup>, A-Aaa<sup>4</sup>, Bbb<sup>2</sup>; 192 leaves.

*Contents*—Vol. I: half-title, A1<sup>r</sup>; engr. title, A2<sup>r</sup>; title, A3<sup>r</sup>; printer's imprint, A3<sup>v</sup>; ded., A4<sup>r</sup>-B3<sup>v</sup>; Proœmium, B4<sup>r</sup>-B4<sup>v</sup>; text, A-Mm1<sup>v</sup> (pp. 1-274); index, Mm2<sup>r</sup>-Oo1<sup>v</sup>; errata, etc., Oo2<sup>r</sup>. Vol. II: title, π1<sup>r</sup>; printer's imprint, π1<sup>v</sup>; ded. π2<sup>r</sup>-π2<sup>v</sup>; text, A-Zz3<sup>r</sup> (pp. 1-365); index, Zz3<sup>v</sup>-Bbb2<sup>v</sup>. Text corrected and emended but essentially the same as in the first edit. The work is entirely repaged and the misnumb. chapter in vol. II of the first edit. has been correctly numbered so that chapters are headed I-XXII. The chapters of volume I and the propositions throughout are numb. as in the first edit. The plates are essentially the same but redrawn and numb. I-XVIII. Printing of the parts at the same time is indicated by the presence of errata to both on the final leaf of the first.

BMNH, I:201; Wood, 249.

341. 1743. Joh. Alphonsi Borelli / Neapolitani Matheseos Professoris, / *De / motu animalium, / pars prima [secunda]. / Editio Nova, a plurimis mendis repurgata, / ac / dissertationibus physico-mechanicis / de / motu musculorum, et de effervescentia, / et fermentatione, / clarissimi viri / Joh. Bernoullii / Matheseos Professoris Basileensis, / Aucta, & ornata. / Hagae Comitum, / apud Petrum Gosse. / MDCCXLIII.* [*Title in red and black.*]

2 vols. in one, 4to (19.8 × 15.0 cm).

Part I: pp. [10] 1-45 [46-48], 1-228, [20]; engr. title-page as front.

Part II: [4] 1-289 270, [14]; engr. fold. plates I-XIX.

*Sigs.*—Part I: [a]<sup>2</sup> b<sup>4</sup>, (a)-(f)<sup>4</sup>, A-Hh<sup>4</sup>; 154 leaves (wanting (f)<sup>4</sup> and Hh<sup>4</sup>, probably blank). Part II: π<sup>2</sup> (A)-(Pp)<sup>4</sup>; 154 leaves.

*Contents*—Part I: engr. title, [a]1<sup>v</sup>; title, [a]2<sup>r</sup>; dedicatory material, b1-b3<sup>v</sup>; proœmium, b4; Bernoulli's treatises, (a)1-(f)3<sup>r</sup> (pp. 1-45); text, A-Ff2<sup>v</sup> (pp. 1-228); index Ff3-Hh3<sup>v</sup>. Part II: title, π1<sup>r</sup>; ded., π2; text, (A)1-(Oo)1<sup>v</sup> (pp. 1-290); index, (Oo)2-(Pp)4<sup>v</sup>. The text is essentially the same as that of earlier editions, with the same number of propositions and chapters. Bernoulli's three dissertations in Part I form the principal additions, plate XIX having been added to illustrate this material. Earlier editions are described above as Nos. 339 and 340.

## BORLASE, WILLIAM (1695-1772)

342. 1756. *Observations / on the / Ancient and Present State / of the / Islands of Scilly, / And their Importance to the / trade of Great-Britain. / In a letter to the Reverend / Charles Lyttelton, Ll. D. / Dean of Exeter, and F.R.S. / By William Borlase, M. A. F.R.S. / Oxford: / printed by W. Jackson. / Sold by W. Sandby, in Fleetstreet, and R. Baldwin, in Pater-noster / Row, London; Mess. Fletcher, Clements, and Parker, in Oxford; / Mess. Leake and Frederick at Bath; Mess. Score and Thorn / at Exeter; and Mess. Jewell and Michell in Cornwall. / M.D.CCLVI.*

4to (26.4 × 20.9 cm). Pp. [4] 1-140; engr. plates I (front.), II-V (plates III-V fold., plate II printed on D2<sup>r</sup>, p. 19).

*Sigs.*—[A]<sup>2</sup> B-S<sup>4</sup> T<sup>2</sup>; 72 leaves.

*Contents*—Half-title, 1 leaf; title, 1 leaf; text, pp. 1-140, a continuous dissertation in letter form, with references to plates in margins, and occasional foot-notes, describing the natural and economic features of the islands. There is only casual reference to vertebrate natural history (birds, briefly, pp. 80-81).

Although this work contains early reference to British birds, its main interest is other than ornithological. Mullens and Swann (pp. 85-86) discuss the author and his works.

Bookplate: Robert Austen, Shalford, Surrey.

343. 1758. *The / natural history / of / Cornwall. / The / Air, Climate, Waters, Rivers, Lakes, Sea and Tides; / Of the Stones, Semimetals, Metals, Tin, and the Manner of Mining; / The Constitution of the Stannaries; / Iron, Copper, Silver, Lead, and Gold, found in Cornwall. / Vegetables, Rare Birds, Fishes, Shells, Reptiles, and Quadrupeds: / Of the Inhabitants, / Their Manners, Customs, Plays or Interludes, Exercises, and Festivals; / the Cornish Language, Trade, Tenures, and Arts. / Illustrated with a new Sheet Map of the County, and Twenty-Eight Folio / Copper-Plates from Original Drawings taken on the Spot. / By William Borlase, A. M. F. R. S. / Rector of Ludgvan, and Author of the Antiquities of Cornwall. / . . . Natale solum dulcedine captos / Ducit. / Oxford, / Printed for the Author; by W. Jackson: / Sold by W. Sandby, at the Ship in Fleet-Street London; and the Booksellers of Oxford. / MDCCLVIII.*

Folio (34.7 × 22.1 cm). Pp. i-xix [xx], 1-326 [327-328]; engr. plates I-XXIX (plate I is fold. map).

*Sigs.*—π<sup>2</sup>, a-d<sup>2</sup>, B-4O<sup>2</sup>; 174 leaves.

*Contents*—Title, π1<sup>r</sup> (v. blank); ded. and pref. matter, π2<sup>r</sup>-b2<sup>v</sup>; list of subscribers, c1<sup>r</sup>-c2<sup>v</sup>; conts., d1<sup>r</sup>-d2<sup>r</sup> (d2<sup>v</sup> blank); text, B-4O1<sup>r</sup> (pp. 1-326), in chapters I-XXVII, devoted to the manifold phases of "natural history" listed in title; errata, 4O2<sup>r</sup>; directions for placing plates, 4O2<sup>v</sup>. Pp. 242-248 (chapter XXI) are devoted to birds, some of the information having been gleaned from other authors, especially Richard Carew (1555-1620), concerning Cornwall, and Ray and Aldrovandus in general. Of the 17 numb. figs. on plate XXIV, 6 are of birds; a petrel

is figured on plate XXIX. Records of specimens, with dates and localities of capture, are given in some instances and are of interest for their relative antiquity. There are also chapters on fish, quadrupeds, reptiles, insects, etc.

An interesting work of some historic import, published in the year marked by the 10th edition of Linnaeus' "Systema naturae." The few technical names here used, however, are the ponderous multinomials of earlier authors. Copy with W. H. Mullens' bookplate. Laid into it is a letter to Borlase from an unnamed "Kinsman," dated March 23, 1763.

BMNH, I:202; Mullens and Swann, 85-86 (hist., biogr.); Wood, 250.

BORY DE ST. VINCENT, JEAN BAPTISTE GEORGE MARIE (1780-1846)

344. 1804. *Voyage / dans / les quatre principales îles / des Mers d'Afrique, / fait par ordre du gouvernement, / pendant les années neuf et dix de la / République (1801 et 1802), / Avec l'Histoire de la Traversée du Capitaine Baudin jusqu'au Port- / Louis de l'Île Maurice. / Par J.B.G.M. Bory de St-Vincent, / Officier d'Etat-major; Naturaliste en chef sur la / Corvette le Naturaliste, dans l'Expédition de / Découvertes commandée par le Capitaine Baudin. / Avec la [une (Vol. II)] Collection de 58 Planches, grand in-4°, dessinées sur les lieux par l'Auteur, / et gravées en taille-douce. / Tome premier [second; troisième]. / A Paris, / Chez F. Buisson, Imprimeur-Libraire, rue Hautefeuille, n°. 20. / An XIII. (1804.)*

Title of atlas as follows:

[*Idem*,<sup>1</sup> 9 lines] / Par J.B.G.M. Bory de Saint-Vincent, / Officier d'État-major; Naturaliste en chef sur la Corvette / le Naturaliste, dans l'Expédition de Découvertes commandée / par le Capitaine Baudin. / Trois Volumes in-8°, avec une Collection de 58 Planches, grand in-4°, dessinées sur les / lieux par l'Auteur, par Patu de Rosemond, etc., et gravées en taille-douce / par Adam, Blondeau, Fortier, Dorgez, B. Tardieu, et autres Artistes. / Collection de planches. / A Paris, / Chez F. Buisson, Imprimeur-Libraire, rue Hautefeuille, n°. 20. / An XIII. (1804.)

3 vols., text, 8vo (20.7 × 13.8 cm, untrimmed); 1 vol., atlas 4to (35.5 × 26.5 cm, untrimmed).

Vol. I: pp. i-xv [xvi], 1-412.

Vol. II: pp. [4], 1-431.

Vol. III: pp. [4], 1-473.

Atlas: [4] pp.; engr. plates I-LVI, XIV *bis*, XXIII *bis* (20 fold.; 1 col.; none ornith.).

*Contents*—Vol. I: half-title (notice on v. states that 2 copies were placed in the Bibliothèque Nationale on "ce 5 Fructidor an XII," August 23, 1804); title; ded., pp. v-xii (to Général Mathieu Dumas; dated "le 1<sup>er</sup> Messidor an XII," 20 June 1804); "Avis au lecteur," pp. xiii-xv; errata to vol. I, p. [xvi]; text, pp. 1-370, in chapters I-VIII; "Table des chapitres," pp. 371-372; "Catalogue [index] des objets d'histoire naturelle" for all vols., pp. 373-408; advt., pp. 409-412 (books recently published by Buisson). Vol. II: half-title; title; text, pp. 1-428, in chapters IX-XVIII; "Table des chapitres," pp. 429-430; errata to vol. II, pp. 431. Vol.

<sup>1</sup> Except for certain minor differences in capitalization.

III: half-title; title; text, pp. 1-334, in chapters XIX-XXV; "Lettre de M. Hubert L'Ainé," etc., pp. 335-358; "Table des chapitres," pp. 359-360; "Table générale et raisonnée des matières Contenues dans les trois Volumes," pp. 361-472; errata to vol. III, p. 473. Atlas: title; conts.; plates, as collated above. A popular account of the inhabitants, physical features, and plants of the various islands visited, technical material being present in various footnotes. Casual references to birds appear irregularly in all vols.

An interesting voyage, but of no great ornithological importance. Unopened set in original red paper wrappers.

BMNH, I:204.

BOUCARD, ADOLPHE (1839-1905)

345. 1876. *Catalogus avium / hucusque descriptorum. / Auctor / Adolphus Boucard. / Londini, MDCCCLXXVI. / En vente / 55, Great Russell Street, London, W.C. / et chez tous les libraires.*

8vo (22.2 × 14.0 cm). Pp. i-xiv, 1-352.

*Contents*—Title; "avis" (v. of title); pref., pp. iii-vii (in French; dated at London, March 1, 1876); list of 27 orders, p. viii; systematic index to orders and families, pp. ix-xiv; text, pp. 1-352 (errata on p. 352), consisting of a classification of the birds of the world, arranged in columns under orders, families, subfamilies, genera, and species, with ranges (usually one word) opposite the last. Listed are 2,456 genera and 11,031 species.

The main purpose of the work, as stated in the preface, was to bring G. R. Gray's *Hand List of Birds* (1869-1871) up to date. To this end many major works were consulted. As pointed out by Zimmer, the author's classification is peculiar and has been little followed. Many of the forms recognized have since been relegated to synonymy or reduced in taxonomic rank.

Zimmer described English and French versions of the work, similarly dated.

The copy in the Ellis Collection was inscribed by the author to George B. Sennett and dated September, 1883. The printed address line "55 Great Russell Street [etc.]" has been crossed out and changed in the author's hand to "13 rue Guy de la Brosse / Paris."

BMNH, I:210; Wood, 251; Zimmer, 82. Reviewed: *Ibis*, 1877: 125-126.

346. 1876. *A manual / of / natural history: / being a / Companion to the Series / of / pictorial diagrams & natural specimens, / illustrative of / human physiology, zoology, botany, geology, and / mineralogy. / Edited by / A. Boucard, / [Honors, 2 lines] / Second Edition, Revised and Corrected. / London: / A. Boucard, 55, Great Russell Street. / Thomas Murby, / 32, Bouverie Street, Fleet Street. / Paris, E. Deyrolle, 23, Rue de la Monnaie. / 1876. / [Right of translation reserved.]*

8vo (21.2 × 13.5 cm). Pp. i-xii, 1-234 [235-238]; about 175 text-cuts (counting multiple figs. without intervening text as one).

*Contents*—Title; pref.; "Method of teaching," pp. vii-xii; "Introductory re-

marks," pp. 1-5; general text, pp. 6-234; conts., pp. 235-238. Covers the entire field of natural science, but heavily slanted towards biology (birds, pp. 57-85; pp. 57-63 general, pp. 64-85 treating various forms ranged in seven orders).

A text intended for younger readers and accompanied by a set of diagrams (wanting from Ellis set) which could easily be colored.

347. 1889. *Catalogue / des / oiseaux / de la / collection Riocour / Par A. Boucard / Paris 1889 / Tours / Imprimerie Paul Bousrez / 1889.*

(21.2 × 13.8 cm). Pp. 1-24.

*Contents*—Title; introd., pp. 3-4 (headed "Collection Riocour"); text, an unannotated catalogue of the collection, listing the species found therein (these number 1,763, "Plus un certain nombre d'espèces indéterminées"). The collection, according to the introd., was founded by Antoine Nicolas François (1761-1841), comte de Riocour, and enlarged by a number of his descendants, "et contient beaucoup de types de Vieillot et d'autres auteurs."

Title and contents self-explanatory.

Wood, 251; Zimmer, 83.

348. 1892-95. *Genera / of / humming birds. / Being also / A Complete Monograph of these Birds. / By / Mr. Adolphe Boucard, / Corresponding Member of the French Scientific Commission [Etc., 9 lines.]. / London, 1893-1895.*

8vo (21.3 × 14.0 cm). Pp. i-xiv, 1-412.

*Contents*—Half-title (dated 1894-1895); title; pref., pp. v-vi (dated Dec. 1895); systematic index, pp. vii-xiv; text, pp. 1-396; addenda, pp. 397-402; errata, p. 403; alphabetical index, pp. 404-412. The hummingbirds are here elevated to ordinal status and divided into 18 families and 539 species, to which 12 species are added in the addendum. For each species is given name, reference to original description, synonymy, range, description, etc. The work includes "various new genera and species" (Zimmer).

According to Zimmer's succinct account: "The work was issued in parts as a supplement to the author's periodical, "The Humming Bird," Vols. II-V, forming nearly the whole of the last volume of that work. The following dates of publication (supplied by Dr. C. E. Hellmayr) are from a copy in the State Museum at Munich. Pp. 1-56 (54), 1892; 55-106 [Footnote: "Pp. 55-56, containing the text of *Chrysolampis moschitus* and *Eustephanus galeritus*, were issued in 1892 but were cancelled by pp. 55-56 containing *Abeillia* and a reprint of the account of *Chrysolampis moschitus*, issued in 1893."], 1893; 107-202, 1894; 203-266, March 1895; 267-282, June 1895; 283-330, June 1895; 331-394, end of August 1895; 395-402, October 1895 or later but before Christmas."

The Ellis copy of the *Genera of Humming Birds* is bound uniformly with a complete set of his *The Humming Bird* (1891-1895, vols. 1-5, bound in two volumes) and all three volumes are inscribed "Chas. B. Cory Esqre With the Author's Compliments." The original wrappers are bound into the volumes of *The Humming Bird*, including four wrappers (March, June, September, and December) for vol. 5 (1895)

although the text proper ceased with the March issue of that year, suggesting that pp. 203-412 of the *Genera of Humming Birds* may have appeared in four parts rather than the five suggested by Zimmer.

BMNH, I:210; Wood, 251; Zimmer, 83. Reviewed: *Ibis*, 1892:349; 1896:408-409.

BOUGAINVILLE, LOUIS ANTOINE DE (1729-1811)

349. 1771. *Voyage / autour du monde, / par la frégate du Roi / La Boudeuse, / et / la Flûte l'Etoile; / En 1766, 1767, 1768 & 1769. / [Device] / A Paris, / Chez Saillant & Nyon, Libraires, rue S. Jean-de-Beauvais. / De l'Imprimerie de Le Breton, premier Imprimeur ordinaire du Roi. / M. DCC. LXXI. / Avec approbation et privilege du Roi.*

4to (23.9 × 19.0 cm). Pp. [8] 1-417 [418-420]; plates (fold. maps) 1-19 + 16 bis ("Suite de la Pl. 16"), engr. fold. figs. 1-3 (diagrams).

*Sig.*— $\pi^4$ , A-Fff<sup>4</sup> Ggg<sup>2</sup>; 214 leaves.

*Contents*—Half-title; title; ded. to the King, 2 leaves; "Discours préliminaire," pp. 1-18; text proper, divided into 2 parts and 18 chapters. The "Première Partie," pp. 19-174, in chapters I-IX, covers the voyage to the Straits of Magellan; the "Seconde Partie," pp. 175-388, chapters I-IX, continues the account, covering the voyage from the Straits of Magellan to France, via the Pacific, Java, etc. The relatively few ornithological references are scattered through the text. Chapter IV of part one (pp. 54-73) is devoted to the natural history of the Falkland Islands (les Iles Malouines), birds being discussed on pp. 64-71. A vocabulary of the language of Tahiti occupies pp. 389-402 and a discussion of the language (by M. Peirere) follows (pp. 403-407). Table des matières, pp. 408-417; errata, p. 418; directions to binder and "Privilege du Roi," pp. 419-420.

The first edition (see also Bougainville, 1772; No. 350) of a well-known voyage, this being the first French expedition to circumnavigate the globe. The account is amusing and well-written but the natural history is of little importance other than historical. Sticker: F. Hobill Cole.

BMNH, I:211; Cox, I:55; Wood, 251.

350. 1772. *A / voyage / round the / World. / Performed by Order of / His most Christian Majesty, / In the Years 1766, 1767, 1768, and 1769. / By / Lewis de Bougainville, / Colonel of Foot, and Commodore of the Expedition, in the / Frigate La Boudeuse, and the Store-ship L'Etoile. / Translated from the French / By John Reinhold Forster, F. A. S. / London, / Printed for J. Nourse, Bookseller to His Majesty, in the Strand; and / T. Davies, Bookseller to the Royal Academy, in Russell-Street, Covent-garden. / MDCCLXXII.*

4to (26.6 × 21.0 cm). Pp. i-xxviii, 1-476, [4]; plates I-V (fold. maps), 1 engr. fold. plate at p. 259.

*Sigs.*— $A^4$ , a-b<sup>4</sup> c<sup>2</sup>, B-Ppp<sup>4</sup> (Ppp 3-4 blank); 254 leaves.

*Contents*—Title; ded., pp. iii-iv (by J. R. Forster to James West); translator's

pref., pp. v-x; introd., pp. xi-xxviii (by author); text proper, arranged as in the first French edit., 1771 (No. 349). The first part ends with p. 198, the second with p. 469. Pp. 470-476 are devoted to a vocabulary of the language of Tahiti (Taiti Island), the discussion thereof and the table of contents of the French edition being dropped. Errata, p. 476. Frequent footnotes by the translator are signed "F." As in the French edit., birds and other kinds of wildlife are mentioned, chapter four of the first part again being devoted to the natural history of the Falkland Islands (pp. 44-70; birds, pp. 57-67). A few scientific names are added in Forster's footnotes, these names being assigned tentatively and in no case new. The many maps of the French edit. have been condensed into five, but little material has been lost by the condensation.

The first English edition of an important French voyage. The modest zoological results of the voyage are enhanced by the efforts of the present translator who, in the year this edition was published, was himself on his way around the world as zoologist to Captain James Cook's second voyage. Wood (p. 251) lists several editions of the work but not this translation. Label: F. Hobill Cole.

BMNH, I:211; Cox, I:55.

#### BOULENGER, EDWARD GEORGE (1888-1946)

351. 1926. *A naturalist / at the zoo / by / E. G. Boulenger / Director of the Zoological Society's Aquarium / author of "The Aquarium Book" / With 34 Illustrations by L. R. Brightwell / [Monogram] / Duckworth / 3 Henrietta Street, London, W. C.*

8vo (21.6 × 14.0 cm). Pp. 1-206; front., 33 plates (8 ornith.; line drawings).

*Contents*—Half-title; title (imprint on v.: "First published 1926"); conts.; list of illustrs.; introd. (signed E. G. Boulenger, dated 1926); text, pp. 11-206, in chapters I-XIX, consisting of popularly-written discussion of the natural history and behavior of the more conspicuous or common animals in and out of zoos. Besides casual references to birds, chapters XII-XIV (pp. 138-158) are devoted to ornithology.

A pleasing text for children and interested laymen.

Wood, 251.

352. 1927(?). *Animal mysteries / by / E. G. Boulenger / Director of the Zoological Society's Aquarium / illustrated by photographs and drawings by / L. R. Brightwell / New York / The Macaulay Company.*

8vo (21.7 × 14.6 cm, untrimmed). Pp. 1-214; photogr. front., 15 plates (9 photos., 6 drawings), 8 full-page drawings in text (24 illustrs. in all).

*Contents*—Half-title; title; conts.; list of illustrs.; introd. (dated 1927); text, pp. 11-214, in chapters I-XVIII, devoted to a rambling, popular discussion of various aspects of the natural history of animals. The many references to birds and the few illustrs. are of little ornithological import.

Undated except for introduction. Apparently another version appeared in London at about the same time (*cf.* Wood, p. 251).

## BOURJOT SAINT-HILAIRE, ALEXANDRE (1801-1886)

353. 1837(1835?)-38(39?). *Histoire naturelle / des perroquets, / troisième volume / (supplémentaire), / pour faire suite aux deux volumes de Levaillant, / contenant les espèces laissées inédites par cet auteur ou récemment découvertes. / Ouvrage destiné / a compléter une monographie figurée de la famille des Psittacidés, le texte renfermant la / classification, la synonymie et la description de chaque espèce; / suivi d'un index général des espèces décrites dans tout l'ouvrage; / par le Docteur / Al. Bourjot Saint-Hilaire, / Professeur de Zoologie au Collège Royal de Bourbon. / Les figures lithographiées et coloriées avec soin / par / M. Werner, / peintre attaché au Muséum d'Histoire Naturelle. / Paris, / Chez F. G. Levrault, Libraire-Éditeur, Rue de la Harpe, N.° 81. / Strasbourg, / même maison, Rue des Juifs, N.° 33. / 1837-1838.*

Folio (50.2 × 32.9 cm). Pp. i-xl [xli-xlii], ff. [110]; 111 lith. col. plates (numb. 1-100 + 3, 11, 35, 42, 44, 53, 55, 71, 72, and 75 *bis* and 75 *ter*; 42 *bis* not listed in table of plates (plates by Jean Charles Werner), 1 text-fig.<sup>1</sup>

*Contents*—Half-title, p. i; title, p. iii; ded., p. v; pref., pp. vii-viii (dated Feb. 28, 1838); introd., pp. ix-xxiv (with general description of the group; dated 1 December 1838); "Index generalis Psittacorum," pp. xxv-xxxv (giving names of all species figured in this and the 2 vols. by Levaillant which it was designed to accompany); "Table du troisième volume," pp. xxxvii-xl; "Liste des auteurs principaux," p. [xli]; text proper, 110 leaves, with, in general, one leaf per plate, describing the species in varying detail with descriptions in French and Latin, synonyms, and comments on habits and distribution. In four cases 2 plates appear for 1 leaf of text; 3 leaves devoted to general accounts are not accompanied by plates. Half-title lacking from this copy.

"A supplement to Levaillant's 'Histoire Naturelle des Perroquets' [of 1801-1805] forming a third volume of that work as sometimes catalogued. There seems to be little doubt that the work is identical with the 'Collection de Perroquets,' etc., published by Bourjot Saint-Hilaire in 29 livraisons, from 1835-39" (Zimmer). Zimmer reviewed the dating of the work (see also Engelmann, Agassiz, and Mathews), and Coues gave a thorough description of it, regarding it with only moderate favor.

The work seems to have appeared also (simultaneously?) in quarto, the pagination differing somewhat from the present but the text being essentially identical (Anker). Although various numbers of plates have been ascribed to the work, 111 seems to be the correct number. The table of plates refers to 116, 5 of which (8, 12, and 57 *bis* and 35 and 72 *ter*) were never issued (Anker).

A further supplement, entitled *Iconographie des Perroquets* was issued in 1857-58 by C. de Souancé.

Agassiz, I:389; Anker, 54; BMNH, I:216; Coues, 3:733-734 (descr., crit. rev.); Engelmann, 404; Mathews, *Austral Avian Record*, IV:13 (dating); Nissen, 126; Ronsil, 67; Wood, 252; Zimmer, 84 (descr., dating).

<sup>1</sup> Six figs. in one, numb. 1-4, 2 *bis*, 3 *bis*; given by Zimmer as "text-figs. 1-16."

BOURNS, FRANK SWIFT *and* DEAN CONANT WORCESTER

354. 1894. The Minnesota Academy of Natural Sciences / At Minneapolis, Minn. / Occasional Papers, vol. I., no. 1 / Preliminary notes / on the / birds and mammals / collected by the / Menage Scientific Expedition / to the / Philippine Islands / By Frank S. Bourns and Dean C. Worcester / Minneapolis / Printed for the Academy / December 1894.

4to (28.0 × 20.0 cm). Pp. 1-64.

*Contents*—Title; editorial notice (signed C. W. Hall); [Section] I, introd., pp. 5-7; [Sections] II-V, text proper, as follows: II, "New Species of birds," pp. 8-29 (36 species described as new); III, "New localities for species previously known from the Philippine Islands," pp. 29-42; IV, "Additional notes on previously described species of birds," pp. 43-60. The annotations in the last section are extensive. References to mammals are casual and limited, occurring at the ends of some of the "sections," and on pp. 61-63, section V is a "List of mammals collected." Note, p. 64.

A report on the Steere expedition of 1887-88 and one of the basic papers concerning the Philippine avifauna. Original paper covers bound in are dated December 8, 1894. Bookplate: John Eliot Thayer.

Wood, 252, 636. Reviewed: *Auk*, 1895:173-174 (J. A. Allen).

## BOWLES, WILLIAM (1705-1780)

355. 1782. Introduccion / a la historia natural, / y á la / geografía física de España, / por / D. Guillermo Bowles. / Segunda edicion, corregida. / [*Orn.*] / Con superior permiso. / En Madrid: En la Imprenta Real. / Año de 1782.

4to (19.7 × 14.1 cm). Pp. [28], 1-47 [48], 1-576.

*Sigs.*— $\pi^4 a^4 (\pm a)$  "a2"<sup>4</sup> b-g<sup>4</sup> h<sup>2</sup>, A-Cccc<sup>4</sup>; 326 leaves.

*Contents*—1 blank leaf; title (v. blank); "Artículos de Cartas de Don Joseph Nicolas de Azara, que servirán de Prólogo," 9 leaves (4 letters, dated at Rome between June 7, 1781, and November 7, 1782); ded., 3 leaves; "Discurso preliminar," pp. 1-47; text proper, pp. 1-573, dealing largely with the mines, physical features, agriculture, etc., of Spain. Pp. 336-341 are devoted to birds, being headed: "De las aves de paso en general, / y de los chimbos de vizcaya." Pp. 574-576 contain the "Indice de los articulos" (conts.).

Of interest to ornithologists as a very early, if brief, discourse on Spanish birds. According to BMNH (I:219), the first edition was published at Madrid in 1775.

## BOYD, JULIA

356. 1886. Bewick Gleanings: / being / Impressions / from / Copperplates and Wood Blocks, / engraved in the Bewick workshop, / remaining in the possession of the family until the death of the last / Miss Bewick, and sold afterwards by order of her executors. / Edited, with notes, / By Julia Boyd, / Memb. of the Society of Antiquaries, Newcastle [*Etc.*, 2 lines]. / To which are added, / lives

of Thos. Bewick and his pupils, / With Impressions from other Wood Blocks Collected by or lent to the Author. / [Vign.] / Printed and published by Andrew Reid, / Printing Court Buildings, Akenside Hill, Newcastle-upon-Tyne. / 1886. [Title in red and black]

4to (22.8 × 18.3 cm; small paper copy). Pp. [v-viii] ix-xxiv [xxv-xxvi], 1-108, [2], 1-104, front. (portr.), plates I-LIII (mainly wood engrs.), 362 wood-engr. vigns., tail-pieces, etc. (by Thomas and John Bewick and pupils), 1 facsimile letter (printed on tissue, between pp. 64 and 65, part I).

*Contents*—Title, p. v; ded., p. vii; unheaded note, p. viii; pref., pp. ix-xv; list of subscribers, pp. xvi-xxiv; sectional half-title to part I, p. [xxv]; errata, p. [xxvi]; text (part I), "Life of Thomas Bewick," pp. 1-108; part II, woodcuts, pp. 1-72, and "Notes on the 'Bewick Sale' wood blocks," pp. 73-100; index, pp. 101-104; illustrs. as listed.

A well known source-book on Bewick and his works (see Nos. 263-281). More of the cuts here included are of interest to mammalogists than to ornithologists. A few cuts of birds are included, some of these, by Bewick's pupils, not being readily accessible elsewhere. The work is of no special value as a biographical source, being more a guide for collectors of Bewickiana.

BRABOURNE, WYNDHAM WENTWORTH KNATCHBULL-HUGESSEN, 3rd Baron (1885-1915); and CHARLES CHUBB

357. 1912(1913?). *The birds / of South America.* / By Lord Brabourne, F.Z.S., M.B.O.U., / and / Charles Chubb, F.Z.S., M.B.O.U. / (Zoological Department, British Museum). / Vol. I. / London: / R. H. Porter, 7 Princes Street, Cavendish Square, W. / John Wheldon & Co., 38 Great Queen Street, W. C. / Taylor & Francis, Red Lion Court, Fleet Street, E. C.

8vo (29.0 × 20.2 cm, untrimmed). Pp. i-xix [xx], 1-504; col. fold. map.

*Contents*—Title (to vol. I; all published); half-title; introd., pp. v-vii (dated December 20, 1912); systematic index, pp. ix-xix; text, pp. 1-443, consisting of a systematic list of the birds of South America, recognizing 874 genera and 4,561 species; alphabetical index, pp. 445-504. For each species is given scientific name, citation of original description, common name, and range (in one or a few words).

All published of an ambitious undertaking which was meant to occupy 16 volumes. The death of the senior author caused abandonment of the project after publication of the first volume, which was regarded as preliminary. Certain plates intended for the work were later published separately (Grönvold, H., *Illustrations of the game birds and waterfowl of South America*, 1915-17, q.v.).

No date appears in the imprint. Zimmer entered the work under 1913, the date cited in a note on the cover of vol. 2 of Grönvold's *Illustrations*. However, the introduction is dated December 20, 1912, and the original blue paper covers of the present copy are also dated December 1912. The work is dated 1912 in *The Zoological Record* for 1912 (vol. 49, Aves, p. 11) and in BMNH. Wood also dated it 1912, as did reviews consulted. Clearly it was published either in late December, 1912, or very shortly thereafter.

BMNH, VII:572; Wood, 253; Zimmer, 85-86. Reviewed: *Auk*, 1913:286-287 (Witmer Stone); *Ibis*, 1913:315-317.

## BRADFORD, CHARLES BARKER (1862-1917)

358. 1901. *The / Wild / Fowlers / or, / sporting / scenes / and / charac- / ters of / The great / lagoon / with / Many Practical / Hints concerning / Shot-Guns and / Ammunition, the / Natural History / of Wild-Fowl, / and the Chivalric / Sportsman's Best / Method of Tak- / ing the Game By / Charles Bradford / Author of / "The / Determined / Angler," / etc. / Illustrated / G. P. Putnam's Sons / New York The Knickerbocker Press London. [Title in red and black.]*

8vo (18.2 × 12.0 cm). Pp. [4] 1-175, [4]; front., 1 half-tone plate (drawings by Archibald Thorburn), 17 line-drawings, tail-pieces, etc.

*Contents*—Title (copyright notice on verso); ded.; conts.; text, pp. 1-175, in chapters I-X, devoted to description in story style of duck-shooting methods on the Long Island coast in the late 19th Century, and containing some trivial observations on the natural history of wildfowl; advt., 2 leaves. The lay-out of the title-page, which includes one figure of a white-fronted goose, is very complex and the title is printed on glossy paper.

## BRADLEY, SAMUEL MESSENGER (1841-1880)

359. 1875. *Manual / of / comparative anatomy / and / physiology / by / S. Messenger Bradley, F.R.C.S. / Senior assistant surgeon, Manchester Royal Infirmary / Third edition / Philadelphia / Lindsay and Blakiston / 1875.*

8vo (18.7 × 12.4 cm). Pp. i-x [xi-xii], 1-276; tables (plates) I-III, text-figs. 1-61 (line-cuts).

*Contents*—Title; pref. to third edit.; pref. to second edit.; pref. to first edit.; conts.; list of plates (tables); text, pp. 1-262, in chapters I-XL, being a review of comparative anatomy prepared as an abbreviated text for students with insufficient time or desire to use the large and comprehensive anatomical tomes of the time. Chapters XXX-XXXII (pp. 183-198) are devoted to birds (anatomy, classification, physiology). Glossary, pp. 263-272; index, pp. 273-276.

Title and contents self-explanatory. Inscribed: C. Hart Merriam.

## BRAISLIN, WILLIAM COUGHLIN (1865-1948)

360. 1907. 1904-1907 Nos. 17-19 / *Abstract / of the Proceedings of the / Linnaean Society / of / New York / For the Year ending March 14, 1905 [Etc., 3 lines.] / containing / A List of the Birds of Long Island, N.Y. / By William C. Braislin, M.D. / Date of Issue, October 22, 1907 / The Society meets on the second and fourth Tuesday evenings [Etc., 3 lines] [Cover-title]*

(22.5 × 14.6 cm). Pp. 31-136; 2 fotogr. plates.

*Contents*—Paper covers; bearing title (above); text (headed: "A list of the Birds of Long Island, New York."), consisting of introd. material (pp. 31-32), a well-annotated list of 364 kinds of birds (pp. 32-100), and a long bibl. (pp. 101-123). Pp. 124-127 contain a list of members of the Society, and pp. 128-136 con-

tain an index of all of nos. 17-19, including the present title. Pp. 125-126 wanting from Ellis copy; text of pp. 124 and 127 struck out in ink.

An independently bound copy of a work properly part of the serial literature. Wood states erroneously (p. 253) that this work also appeared in B. F. Thompson's *History of Long Island* (3rd edit., 1918), the ornithological portion of that work (vol. III, pp. 282-291) being by L. Nelson Nichols, as Wood correctly states on p. 596.

Wood, 253. Reviewed: *Auk*, 1908:93 (J. A. Allen).

BRANDT, HERBERT (1884-1955)

361. 1940. *Texas Bird Adventures / in the Chisos Mountains / and / on the northern plains / by / Herbert Brandt / Illustrated with field sketches and line drawings / by George Miksch Sutton / and with photographs by the author / [Vign.] / Published by / The Bird Research Foundation / Cleveland, Ohio / 1940.*

(21.5 × 14.5 cm, standard size; 24.3 × 15.7 cm, large paper). Pp. i-xi [xii], 1-192; front. (line-cut), 15 plates (14 half-tones: 6 bearing 7 photos., 8 bearing 9 water-color drawings; 1 line-cut).

*Contents*—Half-title; title; ded.; foreword (by author, dated September 1, 1939); conts.; list of illustrs.; text, pp. 1-188, in chapters I-XVI, being an entertaining account of an ornithological expedition to Texas and containing various observations of value; index, pp. 189-192.

Besides a standard copy there is at hand a specially bound, large-paper copy, the purple morocco cover of which is labelled "Waggoner Ranch Edition." According to a MS. note on binder's leaf, only 12 of these were distributed. Of particular interest are the excellent studies of birds' heads by Sutton.

Reviewed: *Wilson Bull.*, 1940:190 (J. Van Tyne); *Bird-Banding*, 1940:124.

362. 1943. *Alaska bird trails / adventures of an expedition by / dog sled to the delta of the / Yukon River at Hooper Bay / by / Herbert Brandt / Author of / Texas Bird Adventures / Illustrated with paintings / by / Major Allan Brooks and Edward R. Kalmbach / with photographs by / Frank DuFresne, Olaus J. Murie, and the author / and with pen sketches by / C. G. Mitchell, J. R. Moodey, / and L. B. Towle / [Vign.] / Published by / The Bird Research Foundation / Cleveland, Ohio / 1943.*

(25.0 × 19.0 cm). Pp. [6] i-xviii, 1-464; col. front., 39 plates (11 col., 9 by Brooks, 26 by Kalmbach; 28 half-tones, of photos.), 22 text-figs. (line-cuts), endpaper photo. (front), endpaper map (back); col. plates captioned on protective tissues.

*Contents*—Half-title; title; ded.; conts.; photographic data; list of illustrs.; foreword; introd., pp. xiii-xviii; text, pp. 1-317, in chapters I-XXXV, being the chronicle of an expedition to Alaska in 1924, written in popular and entertaining style; appendix, pp. 319-453, an annotated list of birds recorded on the trip, with taxonomic commentary; index, pp. 455-464.

A handsome and useful work of twofold interest. The popularly-written journal is of general as well as casual ornithological interest, while the appendix is a major paper on Alaskan birds.

Reviewed: *Auk*, 1944:308-311 (A. C. Bent); *Wilson Bull.*, 1944:120-121 (G. M. Sutton).

BRANDT, JOHANN FRIEDRICH (1802-1879)

363. 1839. *Beiträge / zur Kenntniss der / Naturgeschichte der Vögel / mit besonderer Beziehung auf / Skeletbau und vergleichende Zoologie. / Von / Dr. J. F. Brandt. / Kaiserlich-Russischem Staatsrathe und Ritter, ordentlichem Mitgliede der / Kaiserlichen Akademie der Wissenschaften und Director des Zoologischen / und Zootomischen Museums zu St. Petersburg, vieler gelehrten / Europäischen gesellschaften mitgliede etc. / Mit XIX lithographirten Tafeln. / Erste lieferung. / (Aus dem V. Bande der Mémoires de l'Acad. Imp. des Sciences de St.-Petersbourg / VIème Série Sect. d. Sc. natur. besonders abgedruckt). / St. Petersburg. / Gedruckt in der Buchdruckerei der Kaiserlichen Akademie der Wissenschaften. / 1839.*

4to (27.2-29.3 × 22.6 cm). Pp. i-v [vi], 1-154, 1 leaf; lith. plates I, Ia, II-XVIII (nos. II, IV, VII, VIII, XI, XIV, XVI and XVIII fold.).

*Contents*—Title; "Inhalt"; text, pp. 1-149, consisting of six *Abhandlungen* variously subdivided within themselves and devoted to discussions of the anatomy (particularly osteology) of aquatic birds and their classification; "Erklärung der Abbildungen," pp. 149-154; 1 leaf, bound in, consisting of a table entitled "Übersicht der Verwandtschaftsverhältnisse der einzelnen Typen der Ordnung der Schwimmvögel," and showing the author's final and rather peculiar classification.

An important work in avian anatomy by an active pioneer in the field. In its present specially paged and titled form the work is a separate version of several papers read before the Imperial Academy of Sciences in Saint Petersburg between March 17, 1837 (Erste Abhandlung), and September 28, 1838 (Sechste Abhandlung), and originally published together in the *Mémoires* of the Academy. Bibliographers have experienced some difficulty in dating the parts of this serial (see Ricker, *Proc. Biol. Soc. Washington*, 21:11-18, Jan. 23, 1908), some of which were published well before the dates on the title-pages of their respective volumes. Original publication of the present article seems to have been accomplished in the *Mémoires*, ser. VI, tome V, pt. 2, Sc. Nat., tome III, pp. 81-238, April, 1839. The pagination given (which agrees in number of pages with the version in hand) was obtained from Carus and Engelmann, who dated this work 1840 (as did Coues, *re* Abh. V and VI). However, Ricker's table (*op. cit.*, p. 13) shows that pp. 1-238 of tome III, Sc. Nat., were published in April, 1839. The present version, dated 1839 and probably distributed almost contemporaneously with the original, has been reported by numerous bibliographers.

Agassiz, I:405; BMNH, I:222; Carus and Engelmann, II:1115 (original publication); Coues, 3:958, 1059 (Abh. V, VI); Engelmann, 386 (present version); Newton, 61-62 (crit.); Stresemann, 186 (crit.); Wood, 253-254 (original publication misdated [?] 1837).

364. 1839. *Spicilegia / ornithologica exotica / auctore / Joanne Friderico Brandt, / [Honors, etc., 5 lines.] / Fasciculus I / ex Actorum (Mémoires VI. Série sciences nat. Tom. V. P. II.) / Separatim impressus. / Petropoli / apud Graeff, Lipsiae apud Leop. Voss. / MDCCCXXXIX.*

4to (29.2 × 22.5 cm). Pp. [4] 1-37 (repage; pp. 239-275 orig., here numb. in parentheses), plates I-V<sup>1</sup> (lith. col. plates I-IV ornith., by W. Pape; lith. plate V of anatomical details).

*Contents*—Title, pref.; text, in Latin, pp. 1-35 (headed as follows: Tentamen / monographiae zoologicae generis / Phaëton / e Commentariis Academiae Scientiarum Petropolitanae (Mémoires VI. Série Scienc. / mathém. phys. et nat. T. V. 2de part. Sc. nat.) separatim impressa), being a monographic treatment of the tropic-bird genus *Phaethon*; "Tabularum interpretatio," pp. 35-37.

A repaged separate, with specially printed title, of a work appearing in the *Mémoires de l'Académie Impériale des Sciences de St.-Petersbourg* (Ser. VI, tome V, Pt. 2, Sci. Nat. tome III, pp. 239-275, Oct., 1840—cf. Ricker, *Proc. Biol. Soc. Wash.*, 21, pp. 11-18, Jan. 23, 1908). Further details concerning the work are given by Zimmer: "The present imprint appears to antedate the corresponding portion of the journal. The special title, marked 'Fasciculus I,' seems to have been intended as a covering title for a series of separate imprints of papers on exotic ornithology to be published in the 'Memoires,' but no 'Fasciculus II' appears to exist." Wood gives no evidence for the statement that Fasciculus I is only "the first fascicle of the complete paper." Coues lists both the periodical and separate versions of this work (attributing 5 plates to each).

Coues, 3:991; Wood, 254; Zimmer, 86.

BREE, CHARLES ROBERT (1811-1886)

365. 1859-63. *A / history / of the / birds of Europe, / not observed in the British Isles. / By Charles Robert Bree, Esq., M. D. / Vol. I. / [Verse, 4 lines] / London: / Groombridge and Sons, Paternoster Row. / MDCCCLIX.*

Vols. II-IV titled as follows:

[*Idem*, 6 lines] / Vol. II. / [*Verse omitted; idem*, 2 lines] / MDCCCLX.

[*Idem*, 6 lines] / Vol. III. / [*Verse omitted; idem*, 2 lines] / MDCCCLXII.

[*Idem*, 5 lines] / By C. R. Bree, Esq., M.D., F.L.S., / Author of [*Esc.*, 2 lines]. / Vol. IV. / [*Verse omitted; idem*, 2 lines] / MDCCCLXIII.

4 vols., 8vo (24.8 × 15.5 cm).

Vol. I: Pp. i-iv, 1-6 [2] 7-204 \*203 [\*204] 205-206; 60 engr. col. plates (by Benjamin Fawcett; 44 of birds, 16 of eggs).

Vol. II: Pp. i-iv, 1-116 117\* [118\*] 117-203; 60 engr. col. plates (45 of birds, 15 of eggs).

Vol. III: i-iv, 1-247; 60 engr. col. plates (45 of birds, 15 of eggs; 1 text-fig).

Vol. IV: Pp. i-xv [xiv], 1-250 [2]; 58 engr. col. plates (45 of birds, 12 of eggs; 2 text-figs.).

<sup>1</sup> Zimmer lists only 4 plates.

*Contents*—Vol. I: title; conts.; text, pp. 1-206 (etc.; see collation), arranged in the order of Temminck's "Manuel d'ornithologie," treating hawks, owls, corvids, shrikes, flycatchers, and thrushes (part), for each form of which is given scientific and common name, synonymy, brief description, and discussion of natural history, range, etc., including 2 inserted leaves, one unnumbered following page 6 ("Egg of *Ixos obscurus*") and one numbered \*203 ("Egg of the Sociable Vulture"). Vol. II: title; conts.; text, pp. 1-203 (etc.), treating warblers (including some thrushes as now classified), wagtails, and larks including inserted leaf numbered 117\* ("Egg of *Accentor montanellus*"). Vol. III: title; conts.; text, pp. 1-247, treating tits, fringillids (including *Passer*), woodpeckers, nut-hatches, creepers, kingfishers, swallows, nightjars, doves, galliform birds, etc. Vol. IV: title; ded.; conts.; pref., pp. vii-xv (dated at Colchester, April 23, 1863); text pp. 1-183, treating pratincoles, bustards, plovers, sandpipers, cranes, flamingos, ibises, coots, etc., gulls and terns, shearwaters, albatrosses, ducks and geese, pelicans, and cormorants. On p. 183 of vol. IV appears a note announcing the conclusion ("with this number") of the list, and promising publication of the appendix ("three more numbers") dealing with accidentals recorded since the inception of the work. Pp. 185-222 contain this appendix (9 plates). Pp. 223-240 are devoted to a systematic "List of European birds," and pp. 241-243 contain "List II," dealing with accidentals. "Bibliography and abbreviations," pp. 245-248; index to common names, pp. 249-250. A final unnumb. leaf bears errata for entire work (another erratum slip is inserted at p. 139, vol. IV).

"Principally on [*sic*] account of the habits of non-British European birds, with brief descriptions and synonymy, forming a sort of sequel to Morris's 'History of British Birds,' 1870" (Zimmer). At present the work is more of bibliographic than ornithological interest.

A general uncertainty concerning the dates of publication of this work was mentioned by Zimmer, who showed that this was accomplished, excluding the appendix, in 58 or more parts between 1859 and 1863 (*cf. Ibis*, 1859:101, 198, 321, 455; 1860:297, 419; 1861:106; 1862:180; 1863:463). Evidently the work was further made available several times in complete form, the dates of such release being obfuscated by the frequency with which mixed sets have been catalogued.

With the exception of two missing plates (a second drawing of the Greek Partridge in Vol. III, and *Accipiter sphenurus* in Vol. IV), the Ellis set (in commercial cloth bindings, evidently contemporary) seems to be a perfect example of the first impression as printed in parts, gathered, titled, and bound, and almost agrees with a set described by Wood. It seems likely that each volume was so offered for sale upon completion, even though some copies had perhaps been earlier distributed part by part, to subscribers. The dates of such commercial distribution were probably those of the present set, 1859, 1860, 1862, and 1863. Upon completion of the whole work, it appears virtually certain that it was immediately reprinted in full, after the correction of errors listed in errata of vol. IV, first impression, and, at least in some sets, with omission of the preface (see No. 366). Presumably all volumes of this second impression were dated 1863. Subsequent impressions seem to have appeared under dates of 1864, 1866, and 1867, the preface being restored (in vol. I instead of IV) at least in some (*cf. Zimmer*, collation of vol. I dated 1866).

This hypothesis of probable events is based on the dating of individual volumes seen by me or reported in literature, *e.g.*, 2 sets at hand (Nos. 365, 366), one in the library of the American Museum of Natural History, and sets described or mentioned by Zimmer, Thayer, Wood, and Anker. The following table shows the dates of the various volumes recorded, with the number of copies of each taken into consideration. The existence of unrecorded datings is only inferred; it is not impossible that there were incomplete impressions.

Vol.	First impression (1859-1863)	Second impression (1863)	Third impression (1864)	Fourth impression (1866)	Fifth impression (1867)
I	1859 (5)	1863 (2)	inferred	1866 (4)	inferred
II	1860 (5)	1863 (2)	inferred	1866 (1)	1867 (2)
III	1862 (4)	inferred	1864 (2)	1866 (1)	1867 (2)
IV <sup>1</sup>	1863a (3)	1863b (2)	inferred	1866 (1)	1867 (2)

There seems to be no evidence to support the statements of Sitwell, Buchanan, and Fisher, and of Anker, that the work was not completed until 1867. According to *The Ibis* (1863:463): "In the 58th Number of Mr. Bree's 'Birds of Europe,' published on the 1st of July last [1863], the [main text] is terminated, and an Appendix . . . commenced." Since this appendix is short, signed consecutively with the text (including the final leaf of errata), and as these errata have been corrected in a second impression also dated 1863, it seems likely that the entire work was definitely completed in that year.

The contents of the extra leaf in volume I, first impression, dealing with the "Egg of the sociable vulture," have been incorporated in the text at p. 6 of later impressions. In general (except for the corrections already mentioned), the first and second impressions, so far as compared, are from the same setting of type.

A second and revised edition, in 5 volumes, is said to have appeared in 1875-76 (Zimmer, 88).

The present set bears the bookplate of W. H. Mullens.

Various impressions discussed or described by: Anker, 59; BMNH, I:228; Newton, 41; Nissen, 136; Sitwell, Buchanan, and Fisher, 61; Thayer, 29; Wood, 254; Zimmer, 87-88. Reviewed: *Ibis*, 1859:81-99, and pp. cited above (pointing out many errors).

366. 1863. A history of the birds of Europe. [As No. 365: *Idem*, 13 lines] / MDCCC-LXIII.

Vols. II and IV (vol. III of this set is of the first impression, dated 1862) titled as follows:

[*Idem*, 5 lines] / By C. R. Bree, Esq., M.D., F.L.S., / Author of [*Etc.*, 2 lines] / Vol. II. / [*Idem*, 3 lines] / MDCCCLXIII.

[*Idem*, 5 lines] / [*Same as vol. II, above*, 3 lines] / Vol. IV. / [*Idem*, 3 lines].

4 vols. 8vo (24.8 × 15.5 cm).

Vol. I: pp. [2] i-iv, 1-202 \*203 [\*204] 204-206; 60 engr. col. plates.

<sup>1</sup>The letters a and b refer to the uncorrected (1st) and corrected (2nd) versions of vol. IV.

Vol. II: pp. i-iv, 1-116 \*117 [\*118] 117-203 [204]; 60 engr. col. plates.

Vol. III: see No. 365.

Vol. IV: pp. i-iv, 1-250; 58 engr. col. plates.

*Contents*—Essentially as in the first impression (No. 365). The introd. is lacking, possibly by accidental omission, and the ded. has been moved from vol. IV to vol. I. Errata leaf no longer occurs in vol. IV, corrections there listed in first impression having been made. The contents of the extra leaf in vol. I, first impression, have been incorporated in text at p. 6.

Another impression, wanting vol. III (see No. 365).

BREHM, ALFRED EDMUND (1829-1884)

367. 1878-79. *Brehms / Thierleben. / Allgemeine / Kunde des Thierreichs. / Grosse Ausgabe. / Zweite umgearbeitete und vermehrte Auflage. / Zweite Abtheilung—Vögel. / Erster [Zweiter; Dritter] Band. / Leipzig. / Verlag des Bibliographischen Instituts. / 1878 [1879; 1879].*

Separate volume titles:

Vol. I: *Die Vögel / von / Dr. A. E. Brehm. / Erster Band: / Papageien, Leichtschnäbler, Schwirrvögel, Spechte und Raubvögel. / Mit 140 Abbildungen im Text und 17 Tafeln / von Gustav Mützel, Robert Kretschmer und A. Göring. / Leipzig. / Verlag des Bibliographischen Instituts. / 1878.*

Vol. II: [*Idem, 3 lines.*] / *Zweiter Band: / Raubvögel, Sperlingsvögel und Girtvögel. / Mit 206 Abbildungen im Text und 20 Tafeln / von Gustav Mützel, Robert Kretschmer und L. Beckmann. / [Idem, 2 lines] / 1879.*

Vol. III: [*Idem, 3 lines.*] / *Dritter Band: / Scharrvögel, Kurzflügler, Stelsvögel, Zahnschnäbler, Seeflieger, Ruder- / füssler, Taucher. / Mit 96 Abbildungen im Text und 18 Tafeln / von Gustav Mützel, Robert Kretschmer, L. Beckmann und C. Kröner. / [Idem, 3 lines.].*

3 vols., 8vo (24.5 × 17.0 cm).

Vol. I: pp. i-xiv, 1-754; 17 engr. plates, 140 engr. text-figs.

Vol. II: pp. i-xvi, 1-699 [700]; 20 engr. plates, 206 engr. text-figs.

Vol. III: pp. i-xvi, 1-671 [672]; 18 engr. plates, 96 engr. text-figs.

*Contents*—Bänder I-III (vierter bis sechster Bänder der gesampten Arbeit) all contain half-title (“Brehms Thierleben. / Vierter [Fünfter; Sechster] Band.”), covering title, volume-title, “Inhalt,” “Verzeichnis der Abbildungen,” and index (pp. 737-754, 667-699, 643-671, respectively). Vol. I contains introductory remarks (pp. 1-34) of general nature (“Ein Blick auf das Leben der Gesammtheit”). The text (remaining Arabic-numb. pp.) proper treats in semi-technical fashion the birds of the world, arranged in 5 “Reihe” (Volucres; Raptatores; Passeres; Cursores; Natatores), containing 14 “Ordnungen” (Reihe 1: Psittacini, Levirostres, Stridores, Pici. Reihe 2: Accipitres. Reihe 3: Passerinae, Gytratores. Reihe 4: Rasores, Brevipennes, Grallatores. Reihe 5: Lamellirostres, Longipennes, Steganopodes, Urinatores), and 113 families. Arrangement is informal, with special headings only for the orders (of which general discussions are given), followed by

briefly considerations of families, genera, and species, in decreasing detail. The 3 vols. treat approximately the following (stated in the present-day classification of Wetmore): (I) Psittaciformes, Piciformes, Trogoniformes, Cuculiformes, Coliiformes, Coraciiformes, Caprimulgiformes, Micropodiformes (Apodiformes), Falconiformes (part); (II) Falconiformes (part), Strigiformes, Passeriformes, Columbiformes (part); (III) Columbiformes (part), Galliformes, Gruiformes, Tinamiformes, Struthioniformes, Rheiformes, Casuariiformes, Apterygiformes, Charadriiformes, Procellariiformes, Ciconiiformes, Anseriformes, Pelicaniformes, Gaviiformes, Colymbiformes (Podicipediformes), and Sphenisciformes. The arrangement of groups is peculiar and archaic (Stresemann).

The ornithological portion (being the second part) of the second edition of Brehm's well-known semi-technical reference work, the whole of which consists of 10 volumes dated 1876-79 on titles but "(1876)-1880" by Nissen. The first edition was published in 6 volumes, 1863-69 (BMNH; ornithology in 2 vols., 1866-67, as dated by Stresemann). The text of the present edition has been considerably expanded; a further enlarged edition was published in 1890-93 (ornithology 1891-92; No. 368), and still another in 1911-18 (ornithology 1911-13; Anker, no. 63). There have been still further popular editions and abridgments.

BMNH, I:228; Nissen, 138; Stresemann, 237-238; Wood, 255.

368. 1891-92. *Brehms / Tierleben. / Allgemeine Kunde des Tierreichs. / Mit 1800 Abbildungen im Text, 9 Karten und 180 Tafeln in Farbendruck / und Holzschnitt. / Dritte, gänzlich neubearbeitete Auflage. / Von / Prof. Dr. Pechuel-Loesche. / Vögel—Erster [Zweiter; Dritter] Band. / Leipzig und Wien. / Bibliographisches Institut. / 1891 [1891; 1892].*

Separate volume titles:

Vol. I: *Die Vögel. / Von / Dr. Alfred E. Brehm. / Unter Mitwirkung von Dr. Wilh. Haacke / neubearbeitet von / Professor Dr. Pechuel-Loesche. / Erster Band: / Baumvögel. / Mit 144 Abbildungen im Text und 19 Tafeln / von Robert Kretschmer, Wilhelm Kuhnert, Gustav Mützel, Friedrich Specht usw. / Leipzig und Wien. / Bibliographisches Institut. / 1891.*

Vol. II: [*Idem, 6 lines*] / Zweiter Band: Baumvögel, Papageien, Taubenvögel, Hühnervögel, Rallenvögel, / Kranichvögel. / Mit 126 Abbildungen im Text und 18 Tafeln / [*Idem, 4 lines*].

Vol. III: [*Idem, 6 lines*] / Dritter Band: / Suchvögel, Flossentaucher, Sturmvögel, Stossvögel, Wehrvögel, / Nandus, Rossvögel, Strausse. / Mit 106 Abbildungen im Text, 20 Tafeln und 3 Karten / von Ludwig Beckmann, Robert Kretschmer, Wilhelm Kuhnert, Gustav Mützel, Friedrich Specht usw. / [*Idem, 2 lines*] / 1892.

3 vols., 8vo (25.1 × 17.1 cm).

Vol. I: pp. i-xiv, 1-770, [4]; 19 engr. plates (10 col.), 144 engr. text-figs.

Vol. II: pp. i-xiv, 1-713 [714], [4]; 18 engr. plates (8 col.), 126 engr. text-figs.

Vol. III: pp. i-xiv, 1-740, [4]; 20 engr. plates (10 col.), 106 engr. text-figs., 3 col. maps.

*Contents*—Bänder I-III each contain half-title (“Brehms Tierleben. / Vierter [Fünfter; Sechster] Band.”), covering title, volume-title, “Inhalts-Verzeichnis,” “Verzeichnis der Abbildungen,” index (respectively, pp. 737-770; 693-713; 707-740), and advt. (2 leaves each). Introductory matter appears in vol. I on pp. 1-34 (Ein Blick auf das Leben der Gesamtheit”). The text proper (remaining arabic-numb. pp.) is a revised version of that of the second edit., of 1878-79 (No. 367), somewhat expanded. The classification has been completely altered, the birds being divided among 14 orders (Coracornithes, Psittacornithes, Peliornithes, Alectoridornithes, Phalaridornithes, Geranornithes, Charadriornithes, Aptenodytiornithes, Thalasnornithes, Pelargornithes, Palamedeornithes, Rheornithes, Hippalectryornithes, and Struthionornithes) and 98 families. By present standards this classification (presumably by Haacke) shows some improvements over Brehm’s archaic classification of 1878-79, but is still highly artificial. The three vols. treat approximately the following (classification of Wetmore): (I) Passeriformes, Piciformes (part), Micropodiformes (Apodiformes), Coliiformes; (II) Trogoniformes, Coraciiformes, Cuculiformes, Piciformes (part), Strigiformes, Caprimulgiformes, Psittaciformes, Columbiformes, Galliformes, Tinamiformes, Apterygiformes, Gruiformes (part); (III) Charadriiformes, Gruiformes (part), Sphenisciformes, Procellariiformes, Falconiformes, Ciconiiformes, Pelicaniformes, Gaviiformes, Colymbiformes (Podicipediformes), Anseriformes, Rheiformes, Struthioniformes, Casuariiformes.

The ornithological portion of the third German edition of Brehm’s *Tierleben* (for further discussion of which see No. 367), the whole of which consists of 10 volumes dated 1890-93. The colored plates add to the attractiveness of the present edition, which is one of the better ones.

Anker, 62; Wood, 255.

369. 1869-1873. Cassell’s / *Book of birds.* / From the text of Dr. Brehm. / By / Thomas Rymer Jones, F.R.S., / Professor of Natural History and Comparative Anatomy in King’s College, London. / With upwards of / Four Hundred Engravings, and a Series of Coloured Plates. / In four volumes. / Vol. I [IV]. / London: / Cassell, Petter, and Galpin; / and New York. [*Vol. IV* imprint: Cassell, Petter, & Galpin, / London, Paris, and New York.]

4 vols. in 2, 4to (26.2 × 18.5 cm).

Vol. I: pp. i-viii, 1-312; col. chromo-lith. plates [1] 2-8, text-figs. 1-15, [1-111].

Vol. II: pp. i-viii, 1-320; col. chromo-lith. plates 9-20, text-figs. [1-112].

Vol. III: pp. i-viii, 1-312; col. chromo-lith. plates 21-31, text-figs. [I, 1-112].

Vol. IV: pp. i-viii, 1-312; col. chromo-lith. plates 32-40, text-figs. [4, 1-85].

*Contents*—Vol. I: half-title, p. i; title, p. iii; conts., pp. v-vi; list of illustrs., pp. vii-viii; “Editor’s introduction,” pp. 1-22; text, pp. 23-312. Vol. II: title, p. i; conts., pp. iii-vi; list of illustrs., pp. vii-viii; text, pp. 1-320. Vol. III: title, p. i; conts., pp. iii-vi; list of illustrs., pp. vii-viii; text, pp. 1-312. Vol. IV: title, p. i; conts., pp. iii-vi; list of illustrs., pp. vii-viii; text, pp. 1-268; “Classification of birds, according to Dr. Brehm,” pp. 269-298; “Classification of birds as adopted in the British Museum,” pp. 299-301; “Index of English names,” pp. 302-307; “General index of scientific names,” pp. 308-312. The placement of the colored plates agrees with references in the text but varies from that given in the lists of illustrations,

which call for ten plates in each volume. The positions of plates 17 and 18 have been reversed by the binder.

"A general account of the birds of the world, mostly translated from Brehm's "Illustrirte Thierleben," 1864-69, Vols. III-IV." (Zimmer).

Zimmer, 88-89; Wood, 280 (dated "1875?").

370. n.d. (ca. 1870-72.) > *La vie / des animaux / illustrée / Description populaire du règne animal / Par A. E. Brehm / Édition française revu / par / Z. Gerbe / Les oiseaux / caractères, moeurs, chasses, combats, captivité, domesticité, acclimatation, usages et produits / [Vign.] / Paris / J. B. Baillière et Fils, Libraires-Éditeurs / 19, Rue Hautefeuille, 19 / Tous droits réservés / [Orn.]*.

Second vol. titled as follows:

[*Idem*, 9 lines] / moeurs, chasses, combats, captivité, domesticité, acclimatation, usages et produits / [Vign.] / [*Idem*, 5 lines].

2 vols. (28.2 × 19.2 cm).

Vol. I: pp. [4], i-xxvi, 1-790 [791-792]; engr. plates I-XX,<sup>1</sup> engr. text-figs. 1-213, 4 bis, 135 bis, 152 bis.<sup>2</sup>

Vol. II: pp. [4], 1-905 [906-908]; engr. plates XXI-XL,<sup>3</sup> engr. text-figs. 1-205, 112 bis, 6, 102, 86.<sup>4</sup>

*Contents*—Vol. I: half-title ("La vie / des animaux / illustrée") and title, 2 leaves; introd., pp. i-xxvi, general characters of birds; text, pp. 1-782; "table des matières," pp. 783-790; "table des planches hors texte," p. 791. Vol. II: half-title and title, 2 leaves; text, pp. 1-895; "table des matières," pp. 897-905; "table des planches hors texte," p. 907.

A translation of the ornithology of Brehm's *Thierleben* (see No. 367), first edition, and evidently the principal French edition thereof. The work was published by Baillière et Fils in at least two forms: (1) as part of a four-volume set treating only the birds and mammals, under title of *La vie des animaux*, of which the present are the ornithological volumes (vols. numb. only in sigs.; mammals, I-II, birds III-IV, no distinct covering title), and (2) as part of a larger set, said to consist of 15 volumes (Wood), under title of *Merveilles de la nature, l'homme et les animaux*. The ornithological volumes of the latter (seen in the Library of the American Museum of Natural History; see also Ronsil) appear to be identical with the present except for half-titles and titles. The dating of the version in hand is uncertain. ZSL dates a set under present title 1868-72, but the ornithological portion could not have been printed before 1870, since several footnotes refer to works of that date. *Re* the *Merveilles*, Ronsil supplies date of 1878 (=1868?), adding "Reimprimée de nombreuses fois sans changement." According to Wood, the editor has made considerable contributions to the work. The uncolored plates are apparently reproduced without changes from those of the German original.

Ronsil, 71; Wood, 225; ZSL, 80.

<sup>1</sup> Some sources erroneously give 19 plates for first vol., 20 for second. There should be 40 plates in all.

<sup>2</sup> Duplicating text-figs. 4, 135, and 152, respectively, with page references to original locations in text.

<sup>3</sup> Plates XXI-XXIV marked T. IV; remainder marked T. III (in vol. I plates I-XIX are marked T. I; pl. XX marked T. II).

<sup>4</sup> Fig. 112 bis duplicates fig. 112; figs. 6, 102, and 86 reprinted near end of vol. are not marked bis.

371. 1831. *Handbuch der Naturgeschichte / aller / Vögel Deutschlands, / worin / nach den sorgfältigsten Untersuchungen und den ge- / nauesten Beobachtungen mehr als 900 einheimische / Vögel-Gattungen zur Begründung einer ganz neuen / Ansicht und Behandlung ihrer Naturgeschichte voll- / ständig beschrieben sind. / Von / Christian Ludwig Brehm, / Pfarrer zu Renthendorf: [etc., 10 lines] / [Device] / Mit 47 ganz treu und sorgfältig nach der Natur gezeichneten / illuminierten Kupfertafeln. / Ilmenau, 1831. / Druck und Verlag von Bernh. Friedr. Voigt.*

8vo (21.3 × 12.9 cm). Pp. i-xxiv, 1-1085 [1086-1088]; col. front., 195 figs. of birds on plates I-XLVI (col.).

*Contents*—Title, p. i; ded., pp. iii-iv; pref., pp. v-xxiv; text, pp. 1-1022; list of plates, pp. 1023-1036; "Vollständige Uebersicht" (table of contents), pp. 1037-1080; list of genera, pp. 1081-1085; errata, 1086-1088.

The text is comprised of brief descriptions of German birds, arranged into 23 orders, 195 genera, and further subdivided into species and subspecies. One example from each genus is illustrated in the colored plates drawn by Baedeker, Götz, and Thienemann, and engraved by Schwaniz and Wilhelm Müller of Weimar.

Nissen, 140.

BRETON, WILLIAM HENRY (d. 1887)

372. 1833. *Excursions / in / New South Wales, / Western Australia, / and / Van Dieman's Land, / during the years 1830, 1831, 1832, and 1833. / By Lieut. Breton, R. N. / [Quot., 4 lines.] / London: / Richard Bentley, New Burlington Street. / 1833.*

8vo (22.5 × 13.8 cm, untrimmed). Pp. [4] [i] ii-iv [ix] x-xii [2], 1-476; front., 1 engr. plate.

*Contents*—Half-title; title; pref., pp. i-iv; conts., pp. ix-xii; 1 leaf (errata; v. blank); text, pp. 1-470, chapters I-VII; appendix, pp. 471-474; "List of deciduous trees and shrubs which are greatly wanted in the colonies," pp. 475-476. Accounts of the author's travels and various features of the areas traversed. The text contains frequent and sometimes extended, though non-technical, reference to natural history, in which the writer was seemingly well versed. Despite the irregularity of the preliminary pagination, no text seems to be wanting.

Many of the ornithological observations in this work may be of historical interest to students of Australian birds.

BMNH, I:233; Mathews, 18; Whittell, 76.

BREWER, THOMAS MAYO (1814-1880)

373. 1857. *Smithsonian Contributions to Knowledge. / North American / Oölogy; / being an account of the habits and geographical distribution of the birds of North / America during their breeding season; with figures and / descriptions of their eggs. / By / Thomas M. Brewer, M. D. / Part I. / Washington City. / Published by the Smithsonian Institution: / 1857. / New York: D. Appleton & Co.*

> Smithsonian Contributions to Knowledge. / North American / Oölogy. / By / Thomas M. Brewer, M. D. / Part I.—Raptors and Fissirostres. / [Accepted for publication, February, 1856.].

4to (31.7 × 24.0 cm). Pp. [2], i-viii, 1-132; lith. col. plates I-V (of eggs).

*Contents*—Main title, 1 leaf; title of part I (all published), p. i; introd., pp. iii-vi (dated April 1857); conts., pp. vii-viii; text, pp. 1-112; addenda, pp. 113-116; "Catalogue of the species of birds inhabiting America, north of Mexico," pp. 117-118 (Raptors and Fissirostres only); index, pp. 119-130; explanation of plates, pp. 131-132; plates I-V, figuring 74 eggs, numbered. Accounts in text give scientific name, synonymy, and descriptions of range, life-history, nesting habits, etc., for each form treated (hawks and relatives, owls, caprimulgids, swallows, kingfishers, etc.).

All published of a work of some importance in its day, being the first major attempt to treat the subject, and remaining of considerable utility until essentially superseded by Bendire's more ambitious, but also uncompleted, work of 1892-96 (No. 223).

The work appeared in the form described above in 1857, and again, in 1859, as part of vol. XI of the *Smithsonian Contributions to Knowledge* (Zimmer, Coues; see also Rhees, W. J., *Smiths. Misc. Colls.*, no. 478, pp. 13, 18, 1882), the latter probably another impression from the same type. The plates from this version were uncolored and from different stones. Coues erred in stating that the longer title (the first given above) was distinctive of the version of 1859. He pointed out correctly a number of errors in labelling the plates (see also Brewer, *Amer. Nat.*, I:121-123, 1867; Coues, *Bds. Colorado*, I:421, 1878).

The Ellis copy is in original boards with gold medallion of the Smithsonian Institution and (bound in) a manuscript letter from the author to an unnamed collector (dated at Boston, Nov. 2, 1855). The volume bears a few notes and corrections in an unknown hand. Bookplates: Thomas Parkin; Dr. Mitchell, M.A., Boldmere. A second copy contains uncolored plates I and III besides colored plates I-V.

Anker, 67 (version of 1859); BMNH, I:233; Coues, 1:646-647; Nissen, 143; Wood, 256; Zimmer, 92.

#### BREWSTER, WILLIAM (1851-1919)

374. 1886. *Memoirs of the Nuttall Ornithological Club. / No. I. / Bird migration. / By William Brewster. / Contributed by courtesy of the American Ornithologists' Union's Committee on the / Migration and Geographical Distribution of North American Birds. / Part I.—Observations on nocturnal bird flights at / the light-house at Point Lepreaux, Bay of / Fundy, New Brunswick. / Part II.—Facts and theories respecting the general / subject of bird migration. / Cambridge, Mass. / Published by the Club. / March, 1886.*

(27.5 × 21.6 cm). Pp. 1-22.

*Contents*—Title, p. 1; introd., p. 3 (including letter of comment by C. Hart Merriam); text, with part I (pp. 5-10) entitled as noted and contributing observa-

tions made at Point Lepreaux light during several nights between September 1 and 13, 1885, and part II (pp. 11-22) entitled "Facts and theories respecting bird migration."

An early, persuasively written, and thoughtfully conceived paper on bird migration, remaining part of the basic literature of the subject. Bound in original wrappers.

Wood, 256. Reviewed: *Auk*, 1886:474-475 (J. A. Allen).

375. 1906. *Memoirs of the Nuttall Ornithological Club. / No. IV. / The birds / of the / Cambridge region / of / Massachusetts. / By William Brewster. / With four plates and three maps. / Cambridge, Mass. / Published by the Club, / July, 1906.*

(27.5 × 21.6 cm). Pp. 1-426; front. (portr. of Thomas Nuttall), plates II-VII (3 maps; 1 photo.; 1 col. drawing, by L. A. Fuertes; 1 wash drawing).

*Contents*—Title, p. 1; pref., pp. 3-6; introductory matter, pp. 7-84 (containing, among other things, a detailed description of the Cambridge region with lists of birds inhabiting the various habitats, an account of the introduction of the house sparrow, an historical review of "Early writers and ornithologists," etc.; dated March 30, 1905); text, pp. 85-396, consisting of an "Annotated list of the birds of the Cambridge region," giving the status in detail of each species recorded, with dates of occurrence, nesting dates, if any, mention of specimens, etc.; "Additional notes" on several species, pp. 397-398; explanation of plates, p. 399; index, pp. 401-426.

An historical treatise notable for its detailed presentation of knowledge on the birds of a restricted region and one of the very few such studies of relatively early date available for North America.

Wood, 256; Zimmer, 93. Reviewed: *Auk*, 1906:466-470 (J. A. Allen).

376. 1936. *October farm / From the Concord journals / and diaries of / William Brewster / With an introduction by / Daniel Chester French / [Device.] / Cambridge, Massachusetts / Harvard University Press / 1936.*

8vo (19.3 × 13.0 cm). Pp. i-xv [xvi], 1-285; fotogr. front., 3 fotogr. plates.

*Contents*—Half-title; title; foreword (by Thomas Barbour, dated 26 Sept. 1936); introd., pp. vii-xv (by French; dated March 14, 1931); text, pp. 1-285, consisting of excerpts from Brewster's journal beginning with April 30, 1872, and ending with May 14, 1919.

Pleasant and revealing glimpses of New England bird life, some of them of scientific value, from the pen of one of America's most distinguished and articulate ornithologists. The diary provides an important record of natural conditions in New England a half century ago.

Reviewed: *Auk*, 1937:217 (Glover M. Allen).

377. 1937. *Concord River* / Selections from the Journals of / William Brewster / Edited by Smith O. Dexter / Illustrated by Frank W. Benson / [*Device.*] / Cambridge, Massachusetts / Harvard University Press / 1937.

8vo (23.0 × 16.1 cm, untrimmed). Pp. i-vi [vii-x], 1-258 [259-260]; col. front. (of Wood Ducks), 11 plates (1 col., 10 half-tones), endpaper maps.

*Contents*—Half-title; title; foreword, pp. v-vii, a valuable commentary (by Thomas Barbour, dated May 29, 1937); list of illustrs., p. ix; text, pp. 1-250, consisting of selected extracts from Brewster's diaries, 1879-1918; index (with sectional half-title on p. 249), pp. 251-259. The diary entries contain many penetrating and revealing observations of birds and other wildlife in late 19th and early 20th century New England. Some of Benson's finest bird art is found in several of the plates.

A sequel, containing some of the same passages published in its predecessor *October Farm* in 1936 (No. 376), and many more as well. Excellent writing by a fine ornithologist.

Reviewed: *Auk*, 1938:139-140 (G. M. Allen).

BRISSON, MATHURIN JACQUES (1723-1806)

378. 1760. *Ornithologia* / sive / synopsis methodica / sistens avium divisionem in ordines, / Sectiones, Genera, Species, ipsarumque Varietates. / Cum accurata cujusque speciei / descriptione, Citationibus Auctorum de iis tractantium, / Nominibus eis ab ipsis & Nationibus impositis, Nomi- / nibusque vulgaribus. / A. [*sic* (*Vol. I*); A (*Vols. II-VI*)] D. Brisson, Regiae Scientiarum Academiae Socio. / Opus Figuris aeneis adornatum. / Volumen I [-VI]. / [*Orn.*] / Parisiis, / Ad Ripam Augustinorum, / Apud Cl. Joannem-Baptistam Bauche, Bibliopolam, / ad Insigne Stae. Genovefac, & Sti. Joannis in Deserto. / M. DCC. LX. / Cum approbatione, et privilegio Regis.

Title also in French, as follows:

*Ornithologie* / ou / méthode / contenant la division des oiseaux / en Ordres, Sections, Genres, Espèces & leurs Variétés. / A laquelle on a joint une description / exacte de chaque Espece, avec les Citations des Auteurs / qui en ont traité, les Noms qu'ils leur ont donnés, ceux / que leur ont donnés les différents Nations, & les Noms / vulgaires. / Par M. Brisson, de l'Académie Royale des Sciences. / Ouvrage enrichi de Figures en taille-douce. / Tome I [-VI]. / [*Orn.*] / A Paris, / Quay des Augustins, / Chez Cl. Jean-Baptiste Bauche, Libraire, à l'Image Sainte / Geneviève & S. Jean dans le Désert. / M. DCC. LX. / Avec approbation, et privilege du Roi.

A supplement, as part of vol. VI, is titled as follows:

*Supplementum* / *ornithologiae* / sive / citationes, descriptionesque / antea omissae, & species de novo adjectae, / ad suaquaque genera redactae. / A D. Brisson, Regiae Scientiarum Academiae Socio, / necnon Censore Regio. / [*Rule*] / Supplément / d'ornithologie / ou / citations et descriptions / précédemment omises, auxquelles on a joint les / espèces nouvellement découvertes, rapportées /

chacune à leur genre. / Par M. Brisson, de l'Académie Royal des Sciences, & / Censeur Royal.

7 vols. in 6, 4to (28.7 × 21.5 cm).<sup>1</sup>

Vol. I: pp. [i-vii] viii-xxiv, 1-526, i-lxxiii<sup>2</sup> [lxxiv-lxxvi]; engr. fold. plates I-XXXVII (by Martinet, as in all vols.).

Vol. II: pp. [i-iv], 1-516, i-lxvii [lxviii]; engr. fold. plates I-XLVI.

Vol. III: pp. [i-iv], 1-734, i-xci [xcii]; engr. fold. plates I-XXXVII.

Vol. IV: pp. [i-iv], 1-576, i-liv [lv-lvi]; engr. fold. plates I-XLVI.

Vol. V: pp. [i-iv], 1-544, i-lv [lvi]; engr. fold. plates I-XLII.

Vol. VI: pp. [i-iv], 1-543 [544], i-lxv [lxvi-lxviii]; engr. fold. plates I-XLVII.

Supplement: pp. 1-146, i-xxii [xxiii-xxiv]; engr. fold. plates I-VI.

*Sigs.*—Vol. I: [\*]<sup>4</sup> \*\*—\*\*\*\* A-B<sup>4</sup> C<sup>4</sup>(-C4) D<sup>2</sup> E-F<sup>4</sup> G-H<sup>2</sup> I-XX<sup>4</sup> Yyy<sup>2</sup> a-i<sup>4</sup> k<sup>2</sup>; 317 leaves. D and H, although full 4to sheets, have been printed the full height of the sheet in tabular form, with the resultant overly long leaves attached to binder's stubs and then folded upward to fit the binding. Vol. II: π<sup>2</sup> A-Sss<sup>4</sup> Ttt<sup>2</sup> a-h<sup>4</sup> k<sup>2</sup>; 294 leaves. Vol. III: π<sup>2</sup> A-Yyyy<sup>4</sup> Zzzz<sup>4</sup>(-Zzzz<sup>4</sup>) a-i<sup>4</sup> m<sup>2</sup>; 415 leaves. Vol. IV: π<sup>2</sup> A-Cccc<sup>4</sup> a-g<sup>4</sup>; 318 leaves. Vol. V: π<sup>2</sup> A-Yyy<sup>4</sup> a-h<sup>4</sup> i<sup>2</sup>; 308 leaves, and Supplement: A-S<sup>4</sup> T<sup>2</sup>(-T2) a-c<sup>4</sup>; 85 leaves.

*Contents*—Each vol. contains 2 preliminary leaves bearing engr. half-title, p. [i] ("Ornitholo- / -gie. / [Fig. of Hoopoe] / Ornitholo- / -gia."), Latin title, p. [ii], French title, p. [iii], with the fourth page blank. Vol. I contains also a ded., pp. v-vi ("A Monseigneur / le Duc / de Bourgogne."); a "preface," pp. vii-xx, explaining the plan of the work; and a "Catalogus auctorum," pp. xxi-xxiv. The division of remaining contents may be deduced by consultation of the foregoing collation, Arabic-numb. pp. containing the text proper and the Roman-numb. pp. at the end of each vol. bearing, in each, an index including a "Table des Oiseaux," a "Table Alphabétique des noms François," and an "Index Alphabeticus." The text is arranged in parallel columns of Latin and French and treats a large array of birds in considerable detail. The brief diagnoses and synonymies provided appear only in Latin, in single column. A review of the Class Aves occupies pp. 1-22 of vol. I, pp. 24-61 being devoted to a synoptic table of the 26 orders and 115 genera recognized. The remainder of the text treats the birds in detail, 1,336 species being considered. Scientific designations are used for genera only, Brisson having done much of his work before the general acceptance of Linnean nomenclature. The 261 engravings by François Nic. Martinet, while not excellent as bird art (though good for the time), provide copious, reasonably accurate illustration.

One of the most important of early systematic ornithologies. Extensive evaluation of the work may be found in Newton, and in Stresemann. Brisson's *Ornithologia* is a natural extension of his earlier work, *Le regne animal divisé en IX classes*, published in Paris in 1756 and at Leyden in 1757 (copies in Ellis collection) with a revised edition in 1762 (Wood). Mention of birds in the earlier work is too brief to justify its treatment here, but the principles of classification there

<sup>1</sup> Trimmed copy. An untrimmed set in the Ellis Collection, also 4to, measures 27.2 × 21.0 cm, indicating publication on two sizes of paper.

<sup>2</sup> Zimmer, evidently followed by Wood, gives lxiii, but compare Anker, and Ronsil.

developed by Brisson, for the Quadrupedes and Cetacées, were more fully applied to the present work.

Remarks on the dating of the *Ornithologia*—apparently all of it was published in 1760—were given by Zimmer. Notes on the nomenclatural standing of Brisson's genera may be found in Opinion 37 of the International Commission of Zoological Nomenclature, where it is held that many of the names are tenable. Notes on the relationship of Brisson's genera to those of Linnaeus were published by J. A. Allen (*Bull. Amer. Mus. Nat. Hist.*, 28, Art. 27, pp. 317-335, Nov. 11, 1910).

Another edition is said to have appeared, at Paris, in 1788, while an abridged version, of the Latin text only, was issued at Leyden in 1763 (Anker; Newton; Wood).

Anker, 69; BMNH, I:237; Newton, 9-10; Nissen, 145; Ronsil, 73; Stresemann, 55-56; Wood, 257; Zimmer, 94-95.

379. n. d. [Proofs of plates for Brisson's *Ornithologia*]

3 vols., (24.5 × 33.8 cm). 261 engr. plates.

The three volumes, without titles, contain all 261 plates of Brisson's six-volume *Ornithologia* of 1760 (No. 378), these being proofs before lettering was added (plates I-VII of vol. I have part of the lettering). Two volumes contain the "land birds" and one the "water birds." The plates have been numbered by hand to correspond with the published work. The volumes were interleaved by a former owner, who has added in English the common names of the genera, in appropriate places, with lists of the species figured. The artist is François Nic. Martinet (see Nissen, p. 193, and Ulrich Thieme, *Allgemeines Lexikon der bildenden Künstler* . . ., Leipzig, Seemann, 1908-47).

#### BRITISH ORNITHOLOGISTS' UNION

380. 1883. A list / of / British birds / compiled by a committee / of the / British Ornithologists' Union. / [Vign.] / "Medio tutissimus ibis." / London: / John Van Voorst, 1 Paternoster Row. / 1883.

8vo (22.0 × 14.5 cm, untrimmed). Pp. i-xxxi [xxxii], 1-229.

*Contents*—Title; pref., pp. iii-vi (dated April 3, 1883, signed P.L.S., H.T.W., with plan of work and names of the committee that prepared it); Table of British Birds, p. vii (misnumb. vi); conts., pp. ix-xxxii; text, pp. 1-208 ("List of British Birds") giving names of orders, suborders, families, subfamilies, genera, and species, with authorities and citations of original sources for the last two categories, and, for each species, scientific names, common name, short synonymy, derivation of name, and status in the British Isles; index, pp. 209-229.

The first edition of the standard list of British birds, upon which the American Ornithologists' Union *Check-List* (1886, etc., Nos. 62-65) was modelled at the outset. The compiling committee was made up of H. E. Dresser, F. DuCane Godman, Osbert Salvin, Howard Saunders, P. L. Sclater (chairman), Henry Seebohm, R. Bowdler Sharpe, and H. T. Wharton. A second and revised edition

was published in 1915 (No. 381), a third in 1923, and a fourth in 1952. Ellis copy inscribed and annotated by W. B. Tegetmeier.

Wood, 262; Zimmer, 99.

381. 1915. *A list / of / British birds / compiled by a committee / of the / British Ornithologists' Union / [Vign.] / "Medio tutissimus ibis." / Second and revised edition. / Published by the / British Ornithologists' Union / and sold by / William Wesley & Son, 28 Essex Street, Strand, / London, W. C. / 1915.*

8vo (22.0 × 14.5 cm, untrimmed). Pp. i-xxii, 1-430.

*Contents*—Title; conts.; pp. iii-vi; introd., pp. vii-xxii (plan of work, discussion of classification, etc.); text, pp. 1-319, being revised "List of British Birds," with various changes from the first edit. (1883; No. 380). The arrangement of Sharpe's *Hand-List* is used, with the order reversed. Additional subspecies of British species are included when recorded from the British Isles. The custom of duplicating the specific names of nominate subspecies is not adopted. The 10th (1758) edition of Linnaeus' *Systema Naturae* is accepted as the starting point of binomial nomenclature instead of the 12th (1766), a major concession of the B.O.U., which long opposed this step. Thirteen *nomina conservanda* show the reluctance of the B.O.U. to relinquish cherished names unseated by this action. Appendix I, pp. 320-355 (hypothetical species); Appendix II, p. 355 (*nomina conservanda*); Appendix III, pp. 356-401 (explanation of changes, etc.); index, pp. 403-430.

The second edition (see No. 380) of the standard list of British birds. The committee that prepared this list (E. C. Stuart Baker, J. L. Bonhote, W. Eagle Clark, H. E. Dresser, A. H. Evans, F. DuCane Godman, W. R. Ogilvie-Grant, P. L. Sclater, W. L. Sclater, N. F. Ticehurst, and R. G. Wardlaw-Ramsay) published in *The Ibis* (April, 1918, pp. 234-243) a list entitled "Some additions and Corrections to the B.O.U. List of British Birds." Of several copies at hand, two contain this list. In one of these (W. Eagle Clark's copy, with bookplate, interleaving, and annotation) the additions have been clipped and pasted in at appropriate places.

Zimmer, 99-100. Reviewed: *Auk*, 1915:243-245 (Witmer Stone).

#### BRODERIP, WILLIAM JOHN (1789-1859)

382. 1852. *Leaves / from the note book / of a / naturalist. / By / W. J. Broderip, Esq., F.R.S. / Etc. etc. etc. / Author of 'Zoological recreations,' etc etc. / [Verse, 5 lines] / London: / John W. Parker and Son, West Strand. / MDCCCLII.*

12mo (19.9 × 12.5 cm, untrimmed). Pp. i-xvi, 1-413 [414], [2].

*Contents*—Half-title; title; ded.; note (dated London, December 1851); conts.; text, pp. 1-413, in chapters I-XIV, containing frequent though mainly second-hand observations on birds; advt., 1 leaf. According to the note, the chapters first appeared in *Fraser's Magazine*, the dates of appearance there being recorded at the ends of the chapters (January, 1850-May, 1851).

A collection of popular articles on natural history, containing many anecdotes still not without interest. Bookplate: Freeman C. L. Roper.

Wood, 262.

**BRODKORB, PIERCE (1908- )**

383. 1943. *Miscellaneous Publications / Museum of Zoology, University of Michigan, No. 55 / Birds from the Gulf / lowlands of southern / Mexico / By / Pierce Brodkorb / Ann Arbor / University of Michigan Press / January 30, 1943.*

(25.6 × 17.5 cm). Pp. 1-88 [2], fold. map.

*Contents*—Advt.; title; conts.; introductory matter, pp. 7-19; annotated list of birds, pp. 20-88, being mainly an account of specimens collected April 22-August 4, 1939, in Veracruz, Tabasco, Chiapas, and Campeche, by Eizi Matuda and others, with reference to previous work; advt., 1 leaf. Comment mainly taxonomic.

A useful paper on the systematics and distribution of the birds of the area.

**BRODRICK, WILLIAM (1814-1888)**

384. 1865. *Falconers' favourites. / By / W. Brodrick, / one of the authors of 'Falconry in the British Islands.' / London: / printed by Taylor and Francis, Red Lion Court, Fleet Street, / for / John Van Voorst, Paternoster Row. / MDCCC-LXV.*

Folio (59.3 × 43.0 cm). 8 leaves; lith. col. plates I-VI (by W. Brodrick, del. et lith.; M. & N. Hanhart, impt.).

*Contents*—Title, 1 leaf; introd., 1 leaf (dated at Budleigh Salterton, January, 1865); 6 leaves of text in the form of legends printed on v. of leaves, facing plates, and describing the portraits of 6 hawks figured life-size (Peregrine, 2; Goshawk, Sparrow Hawk, Hobby, Merlin).

This beautiful folio of plates, with accompanying remarks, was prepared as a sequel to the volume by Salvin and Brodrick entitled *Falconry in the British Isles* and published in 1855. The falcons are beautifully and sympathetically portrayed, although in my opinion not quite with the grace and authenticity attained by Wolf and Fuertes.

Harting, 41; Mullens and Swann, 96-97 (hist., biogr.); Schwerdt, 82 (descr.); Wood, 262 (entered "Broderip, W. J.").

**BROINOWSKI, GRACIUS J. (1837-1913)**

385. 1887-(?)91. *The / birds of Australia, / comprising / three hundred full-page illustrations, / with / a descriptive account of the life and characteristic habits / of / over seven hundred species, / by / Gracius J. Broinowski. / Vol. I [-VI]. / Published by Charles Stuart & Co., / Melbourne, Sydney, Adelaide, Brisbane, New Zealand, and Tasmania. / [All Rights Reserved.] / 1890 [n.d.; 1887; 1890; 1891; 1891].*

The title of vol. III differs from the rest as shown below:

[*Idem*, 10 lines] / Vol. III. / Published by the Proprietor, / Sydney, Melbourne, Adelaide, and Brisbane, / 1887. / [All Rights Reserved.]

6 vols., unbound, in 38 parts, folio (37.5 × 28.5 cm, untrimmed).

Vol. I: 58 leaves; chromolith. plates I-LII (by Broinowski in all vols.).

Vol. II: 74 leaves; chromolith. plates I-LVIII (plates 9, 10, 37-40 numb. in arabic).

Vol. III: 63 leaves; chromolith. plates I-XLVIII<sup>1</sup> (plates 1-25, 27-29 numb. in arabic).

Vol. IV: 57 leaves; chromolith. plates I-XLVIII.

Vol. V: 66 leaves; chromolith. plates I-L.

Vol. VI: 50 leaves, pp. i-xxx, 1 leaf (errata); chromolith. plates I-XLVII (total plates, vol. I-VI, 303).

*Contents*—Each vol. contains title, followed by plates and text as shown above. The systematically arranged but popular text gives for each species general comments on life history, recognition, behavior, and (very loosely) range. All species treated are figured, in most cases adequately for identification in the hand, but with little artistic merit. An index in three parts appears on pp. i-xxx of Vol. VI.

A comprehensive account of Australian birds, of little more than historic interest today. The exact dates of publication are uncertain. The present set of 38 parts in their original wrappers (sold at 10s. each) sheds light on the dating. The first two volumes contained 7 parts each, the remainder 6. A prospectus on the back cover of each part states: “. . . as the contents of the third volume are in the most forward state, the issue will commence with the first part of Volume III . . . work will consist of 36 [became 38] Parts, which will be delivered every month . . .” Judging from the dates on titles, this schedule was not maintained. Certain of the plates also appeared in other works (Nissen).

Mathews, 19; Nissen, 148; Wood, 262; Zimmer, 100-101; Whittell, 78.

BROKE, Sir ARTHUR DE CAPELL (1791-1858)

386. 1823. Travels / through / Sweden, Norway, / and Finmark, / to / the North Cape, / in the summer of 1820. / By A. de Capell Brooke, M.A. / London: / printed for Rodwell and Martin, Bond-Street. / 1823.

4to (27.2 × 21.0 cm). Pp. i-xvi [xvii-xviii], 1-433 [434]; lith. front., 22 lith. plates (2 col.; by various engravers, from drawings by the author and others; 4 natural history subjects), 11 lith. text-figs. (called vigns. in the list of plates).

*Contents*—Half-title, p. i; title, p. iii; introd., p. v-x; conts., pp. xi-xvi; errata, p. xvi; list of plates, pp. xvii-xviii; text, pp. 1-433, in chapters I-XV, being a straightforward and sometimes quite interesting account of the author's experiences, with descriptions of various features of the country traversed and its inhabitants. Reference to birds, mammals, and other forms of wild life is frequent, though not often extensive. No birds are figured; the only entirely zoological plate shows a lemming, in color.

<sup>1</sup> Zimmer lists plates I-XLVII, a probable error duplicated by Wood and Nissen.

Title and contents self-explanatory. The mounted frontispiece of the present copy is an india paper proof; another, on ordinary paper, is laid in. The half-title leaf, loose, may be from another copy.

BROOKS, ALLAN (1869-1946) and HARRY SCHELWALD SWARTH (1878-1935)

387. 1925. Cooper Ornithological Club / Pacific Coast Avifauna / Number 17 / A **distributional list of the / birds of British Columbia** / By / Allan Brooks / and / Harry S. Swarth / Contribution No. 423 from the / Museum of Vertebrate Zoology / of the University of California / [*Seal*] / Berkeley, California / Published by the Club / September 15, 1925.

8vo (26.7 × 18.0 cm, untrimmed). Pp. 1-158; col. front. (plate I; by Allan Brooks), col. fold. map (plate II), text-figs. 1-38 (photos., maps).

*Contents*—Title; note; conts.; introd., pp. 5-6; acknowledgments, p. 7; previous ornithological work, pp. 9-16; life-zones and faunal areas, pp. 17-21; a thoroughly annotated check-list of the birds of the province, pp. 23-124; introduced species, pp. 125-126; hypothetical list, pp. 127-129; species ascribed to British Columbia on unsatisfactory grounds, pp. 130-131; bibl., pp. 132-143; index, pp. 145-158.

A basic faunal work. The senior author is best known as one of the most prolific bird artists of the 20th century (see biogr., *Auk*, 1947:439-444). A sequel to Fannin's check-lists of 1891 and 1898 (*infra*), the work has to a considerable extent been superseded by J. A. Munro and I. McT. Cowan's *A review of the bird fauna of British Columbia* (British Columbia Prov. Mus., Spec. Publ. No. 2, 285 pp., 1947).

Wood, 263. Reviewed: *Auk*, 1926:114-115 (Witmer Stone).

BROWN, PETER (fl. 1776)

388. 1776. **Nouvelles / illustrations / de / zoologie**, / contenant / cinquante planches enluminées / d'oiseaux curieux, / et qui non etés jamais décrits, / et quelques de quadrupedes, / de reptiles et d'insectes, / avec de courtes descriptions systematiques. / Par Pierre Brown. / A Londres: / Imprimé pour B. White, dans Fleet-Street. / M. DCC. LXXVI.

**New / illustrations / of / zoology**, / containing / fifty coloured plates / of new, curious, and non-descript / birds, with a few quadrupeds, / reptiles and insects. / Together with / a short and scientific description of the same. / By Peter Brown. / London: / Printed for B. White, at Horace's Head, Fleet-Street, M. DCC. LXXVI.

*Note*.—A variant occurs in 2 of 5 examples at hand, as follows:

[*Idem*, 6 lines] / of new, curious, and / non-descript birds, / with a few quadrupeds, / [*Idem*, 7 lines].

4to (31.0 × 24.0 cm, untrimmed). Pp. [8] 1-136; engr. col. plates [I-L] (see table below; by Peter Brown; plates [I-XLII] ornith.).

*Sigs.*—[A]<sup>4</sup> B-S<sup>4</sup>; 72 leaves.

*Contents*—French title, p. [1]; English title, p. [3]; ded. in French, p. [5],

and in English, p. [6]; pref., in French, p. [7], in English, p. [8] (dated May 9, 1776, at London); text, pp. 1-134 (French text on right-hand pp.; English version on left-hand pp.); "Table des Planches" and "List of Plates," pp. 135-136 (parallel columns). The popular text in support of the plates is very brief (one p. or less per plate) and gives descriptions of the birds treated (pp. 1-104) under such headings as "Bill, Front, Neck, Back, Covers, Vent, Tail, Legs," and range (usually one word) under the heading "Place." Some, perhaps most, of the birds are identifiable to species. Linnean binomials are not used, but most forms are assigned to Linnean genera (a few treated under common name only). The text is said to be by Thomas Pennant, the plates being from specimens in the collection of Marmaduke Tunstall and drawings made in Java and Ceylon by Mr. Gideon Loten, one-time governor of Ceylon (Anker).

This handsome work is of interest as a period piece; it was never of much scientific importance. The plates are quaint and attractive, although scarcely respectable "bird art" by any but 18th century standards. While Zimmer calls the work a folio, five copies seen are quite certainly quarto. Some have the plates bound at the end. The plates may have been issued separately as completed, since some of them are marked "published on" various dates, the dates being part of the engraving. As noted in the table below, not all of the plates are numbered, and not all are dated, those which are so marked varying somewhat in five copies examined. Dates on the plates in these copies range from June 26, 1774, to May 2, 1775. Details are shown in the following table, which could doubtless be expanded by examination of further copies.

Variations in engravings in Peter Brown's  
*Nouvelles Illustrations de Zoologie*, 1776, as determined from  
five copies (numbers of copies seen indicated in parentheses).

Plate numb. as given in text	Roman numeral on plate	Date on plate.	Variants and remarks.
1.	I (4)	Feb. 9, 1775 (5)	
2.	None	None	
3.	III (2)	Jan. 9, 1775 (2)	Numb. copies dated.
4.	IV (3)	None	
5.	V (2)	"	
6.	VI (2)	"	
7.	VII (2)	Nov. 3, 1774 (3)	Occurs numb. with date (2); unnumb. with date (1); un- numb. without date (2). Dated copies have added de- tail at bottom of picture.
8.	VIII (4)	None	
9-11.	None	"	
12.	XII (1)	"	
13.	XIII (2)	"	

Variations in engravings in Peter Brown's  
*Nouvelles Illustrations de Zoologie, 1776*, as determined from  
five copies (numbers of copies seen indicated in parentheses) (continued).

Plate numb. as given in text	Roman numeral on plate	Date on plate.	Variants and remarks.
14.	XIV (3)	Feb. 11, 1775 (3)	Numb. copies with date; these copies have a plant added in foreground.
15.	XV (3)	None	
16.	None	"	
17.	XVII (3)	Nov. 3, 1774 (3)	Numb. copies dated.
18.	XVIII (4)	None	
19.	XIX (4)	"	
20.	XX (5)	"	
21.	XXI (3)	March 2, 1775 (3)	Numb. copies dated.
22.	None	None	
23.	XXIII (4)	Dec. 27, 1774 (5)	
24.	None	None	All contain 2 signatures of artist, 1 scratched out in engr.
25.	XXV (3)	"	
26.	XXVI (4)	March 15, 1775 (5)	
27.	None	None	
28.	XXVIII (1)	June 26, 1774 (1)	Dated copy numb. This variant has rock added in foreground.
29.	XXIX (4)	None	
30.	XXX (5)	"	
31.	None	"	
32.	XXXII (2)	March 13, 1775 (5)	
33.	None	March 10, 1775 (5)	
34.	XXXIV (3)	None	
35.	None	"	
36.	"	March 23, 1775 (5)	
37.	"	March 29, 1775 (5)	
38.	"	April 6, 1775 (5)	
39.	XXXIX (5)	None	
40.	XL (2)	Feb. 16, 1775 (4)	Numb. copies dated (2); also occur with date but no number (2), and with neither date nor number (1).
41.	XLI (4)	Feb. 9, 1775 (5)	
42.	None	Jan. 11, 1775 (3)	
3.	XLIII (3)	March 2, 1775 (3)	Numb. copies dated.
4.	XLIV (4)	None	

Variations in engravings in Peter Brown's  
*Nouvelles Illustrations de Zoologie*, 1776, as determined from  
 five copies (numbers of copies seen indicated in parentheses) (concluded).

Plate numb. as given in text	Roman numeral on plate	Date on plate.	Variants and remarks.
45.	None	None	
46.	XLVI (1)	March 19, 1775 (5)	
47.	XLVII (4)	May 2, 1775 (5)	
48.	None	April 15, 1775 (5)	
49.	"	April 15, 1775 (5)	
50.	L (1)	March 25, 1775 (5)	

Despite variation observed in title and plates of different copies, the text appears to be the same in all.

Anker, 72; BMNH, I:260; Nissen, 151; Wood, 264; Zimmer, 101-102.

BROWN, Captain THOMAS (1785-1862)

389. 1831(?) - 35. *Illustrations / of the / American Ornithology / of / Alexander Wilson / and / Charles Lucian Bonaparte / Prince of Musignano. / With the addition of / Numerous recently discovered Species / and Representations of / The Whole Sylva / of / North America. / By / Captain Thomas Brown. / FLS. MWS. MKS. MPS. / Late President of the Royal Physical Society. / &c. &c. &c. / Edinburgh. / Frazer & Co. 54 North Bridge / William Curry Junr. & Co. Dublin / & Smith, Elder & Co. 65 Cornhill / London. / Designed and engraved MDCCCXXXV. by James Turvey.*

Folio (53.5 × 41.4 cm). Pp. [4] i-iii [iv]; engr. col. plates I-CXXXIV<sup>1</sup> (by Thomas Brown).

*Contents*—Title; engr. ded.; systematic index to birds, pp. I-III, and "North American Sylva" in the bird plates, p. III; 124 col. plates, with their legends, containing 523 figs. of birds. As indicated by title, the plates are mostly after Wilson's *American ornithology*, 1808-14. They have generally lost in the process, and have been somewhat altered in most instances.

This work, said to be extremely rare, is devoted to plates of many species of North American birds. It is based largely upon the works listed in the title, and probably others. Faxon (cited below) showed that the plates were originally intended as illustrations for the text of the first European edition (Constable, 1831) of Wilson's *American ornithology* (with Bonaparte's sequel).

The Ellis copy bears the bookplate of John E. Thayer, and is evidently the number 4 of Faxon's description, since it lacks the figures missing from that copy (pl. 44, fig. 5; pl. 61, 2 figs.—"These figures were apparently added after this copy was printed off.").

<sup>1</sup> Misnumberings etc. discussed below.

The plates were evidently distributed in parts, at least some of which contained 5 plates each, starting at the latest in 1831 (Faxon, p. 237). Many of them are numbered on slips pasted, presumably, over other, differing numbers, to make them conform to the sequence of the work. So pasted in the present copy are nos. V, VI, VIII-XII, XIV, XVI, XVII, XIX, XXI-XXXIII, XXXV, XXXVI, XLII-XLIV, XLVI-LXXXIII, CII, and CVIII (total, 69; Faxon gives 68). Plate 96 is misnumbered CVI; plate CXXII is misnumbered CXXI.

Laid into the Ellis copy is a leaf bearing a mounted, engraved portrait of Alexander Wilson, from Sir William Jardine's edition (1831) of Wilson's *American ornithology*.

For further discussion of Brown and his works see Mathews and Iredale (*Austral Avian Record*, 1922: 4: 176-194), and *The Osprey*, 1901: 5: 109. No new names appear in the work, but (as stated in the index) 161 birds have been added to those figured by Wilson and Bonaparte, and 87 "considerably enlarged."

Faxon, W., *Auk*, 1903:236-241 (detailed descr.); 1919:623-626; Nissen, 152; Wood, 264.

390. 1832. No. ["I." in manuscript] Price ["21.Sh." in manuscript] / Illustrations / of the / game birds / of / all countries; / chiefly the size of nature. / Drawn, engraved, and coloured after nature, / by / Captain Thomas Brown, F.L.S. M.W.S. &c. / President of the Royal Physical Society. / Edinburgh: / Published by Thomas Clark, 35, George Street: / Simpkin and Marshall, and Moon, Graves, and Boys, London: / and John Cumming, Dublin. / MDCCCXXXII.

Broadsheet (57.0 × 45.7 cm). 4 engr. col. plates.

*Contents*—Cover-title; prospectus (tipped in); plates.

According to the prospectus which is tipped in, this work was supposed to "appear in Numbers, every six weeks, each containing Eight Birds [and to] extend to Fifteen Numbers" and eventually to be accompanied by a volume of text in 8vo although it was also possible to order "the Descriptions of the same size as the Illustrations" but in limited numbers only. Three sizes were to be issued ("Price 21s. Medium Folio, 22 inches by 17.—Royal Folio, 25s.—Elephant Folio, 30s.—Uncoloured Medium, 12s.") of which the Ellis copy of No. 1 is "Medium Folio." The four plates of No. 1 contain, as promised, eight birds—male and female of each bird pictured on the same plate—and are equivalent to plates 69, 74, 75, and 77 of Brown's *Illustrations of the American Ornithology of Alexander Wilson* (No. 389). The plates are printed on paper watermarked 1830 and 1831; the backgrounds as well as the foreground figures are fully colored.

No reference has been found to this work in any available bibliographies.

391. ca. 1835. [Illustrations / of the / game birds / of / North America / Chiefly the size of Nature / by / Captain Thomas Brown / F.L.S. M.W.S. M.K.S. M.P.S. / Late President of the Royal Physical Society / &c. &c. &c. / Edinburgh / Frazer & Co. 54 North Bridge; / Wm. Curry Junr. & Co. Dublin; / John Smith & Son Glasgow; / & Smith Elder & Co. 65 Cornhill. / London / MDCCCXXXIV. / Designed & Engraved by James Turvey.] [Title from facsimile reproduced in Zimmer]

Broadsheet (54.5 × 42.2 cm). Engr. title; 16 engr. col. plates.

The Ellis copy consists of the 16 plates only, without the engraved title-leaf. The plates are un-numbered but are equivalent to nos. 69-83 and 102 of Brown's *Illustrations of the American Ornithology of Alexander Wilson* (No. 389), with minor additions to the captions of plates 70, 71, and 80. The only major change is the alteration of the perch of one bird in plate 77 from a tree-branch to a tussock. The watermarks in the paper include dates ranging from 1830 to 1835, suggesting that the publication date of 1834 given on the title-page may be incorrect. Since Faxon (cited below) describes a copy with watermarks of 1835 only, and Zimmer one with 1830-1834, it may be of interest to compare the watermark dates of the same plates in their three appearances in the Ellis collection:

<i>Plate number</i>	<i>No. 389</i>	<i>No. 390</i>	<i>No. 391</i>
69	1831	1830	1830
70	1833	.....	1835
71	1834	.....	1835
72	1833	.....	1833
73	1834	.....	1835
74	1831	1830	1830
75	1831	1831	1831
76	1830	.....	1831
77	1831	1830	1835
78	1833	.....	1835
79	1830	.....	1830
80	1831	.....	1831
81	1833	.....	1835
82	1833	.....	1833
83	1834	.....	1835
102	1834	.....	1834

In the Ellis copy, like Zimmer's but unlike Faxon's, not only the foreground figures but the backgrounds are fully coloured.

Faxon suggests that the appearance (1827-38) of Audubon's great work may have destroyed the market for the *Illustrations of the American Ornithology of Alexander Wilson* (No. 389). Perhaps the *Illustrations of the game birds of all countries* (No. 390) and the *Illustrations of the game birds of North America* (No. 391) may represent attempts by Brown to produce an apparent novelty and to stimulate the buyers to purchase at least the plates from a slow-moving work.

Zimmer, 102 (and plate V); Faxon, W., *Auk*, 1903:236-241; 1919:623-626.

- 392.** 1834. *Anecdotes / of / the animal kingdom; / containing / illustrations of the characters, habits, / dispositions, and capabilities, / of / quadrupeds, birds, fishes, reptiles, and insects; / and forming an / appropriate supplement / to / Goldsmith's animated nature. / By Captain Thomas Brown, / Fellow of the Linnean Society [Etc., 3 lines]. / Glasgow: / Archibald Fullarton & Co., / 34, Hutcheson*

Street, and 31, South Bridge, Edinburgh; / W. Curry, Jun. & Co. Dublin; / Simpkin & Marshall, and Orr & Smith, London. / MDCCCXXXIV.

(16.2 × 9.8 cm). Pp. i-xi [xii] 1-923.

*Contents*—Title; pref., pp. iii-vi; conts.; text, pp. 1-923 (pp. 1-3 introductory), consisting of a long series of “anecdotes,” or popular accounts of the natural history of a great variety of animals both vertebrate and invertebrate (birds, pp. 415-685).

A creditable popular text for its times, although not without exaggerations and misconceptions. Like most of the author's work it is mainly a compilation from other sources, credit, at least in this case, being duly given. It must be rare, since I find no mention of it in standard zoological catalogues and bibliographies, nor in the excellent article on Brown by Mathews and Iredale (*Austral Avian Record*, 1922: 4: 176-194).

393. 1837. **The / taxidermist's manual; / or the / art of collecting, / preparing and preserving objects / of / Natural History. / For the use of / travellers, conservators of museums, / and private collectors. / Illustrated by six plates. / By / Captain Thomas Brown, F.L.S. / Late President of the Royal Physical Society, / etc. etc. etc. / Fourth edition. / Glasgow: / Archibald Fullarton & Co., / Brunswick Street, and 6, Roxburgh Place, Edinburgh; / W. Curry, Jun. & Co. Dublin; / Simpkin & Marshall, and Orr & Smith, London. / MDCCCXXXVII.**

(16.9 × 10.7 cm). Pp. i-xii, 1-150; lith. plates I-VI.

*Contents*—Half-title; title; pref.; conts.; introd., pp. 1-6; text, pp. 6-145, in chapters I-VIII, devoted to the preparation and preservation of quadrupeds, birds (pp. 25-59), reptiles, and various invertebrates, the materials used, and “Instructions to Travellers”; index, pp. 147-150. The instructions are detailed and would in some instances be sufficient for basic taxidermy as practiced today. The section on birds, besides general directions, gives detailed instructions for different types of birds, and describes the techniques of four contemporary taxidermists.

The fourth edition of a popular and in its time progressive manual. In the Ellis Collection are a number of later editions, all much like the fourth (titles and collations vary in minor details and some contain decorative vignettes). Imprints are as follows: 9th edit., A. Fullarton and Co., London, Edinburgh, and Dublin, 1851; 14th edit., same, 1858; 15th edit., A. Fullarton and Co., London and Edinburgh, 1859; 26th edit., G. P. Putnam's Sons, New York, 1875; unnumb. edit., Thomas C. Jack, London, Grange Publishing Works, Edinburgh, 1885. Ellis copy of the fourth edition in original boards.

Wood, 264 (3rd edit., Glasgow, 1836).

394. 1845(?)46. **Illustrations / of the / genera of birds, / embracing their / generic characters; / with / sketches of their habits. / By / Captain Thomas Brown, / M.W.S., M.P.S., / formerly President of the Royal Physical Society, present Curator of the Manchester Natural History Society's Museum, and / Honorary Secretary of the Manchester Geological Society, author of Illustrations of the fossil conchol-**

ogy / and of illustrations of the Recent conchology of Great Britain and Ireland, / &c. &c. &c. / Part first. / London: / Smith, Elder, & Co., 65 Cornhill. / Edinburgh: / Maclachlan & Stewart, 64, South Bridge. / 1846.

4to (34.0-34.5 × 25.0 cm). Ff. [57]; 59 plates (56 col.; by Thomas Brown; engr. by W. H. Lizars, J. Miller and Wm. Miller.). Ellis copy incomplete: 33 leaves; 34 plates (32 col.).

*Sigs.* (of the imperfect Ellis copy)—[a]<sup>2</sup>, A-C<sup>4</sup>, D<sup>2</sup> (apparently incomplete); bb<sup>2</sup> (apparently incomplete), G<sup>4</sup>, h-i<sup>4</sup>, k<sup>2</sup>, 2k<sup>1</sup>; 33 leaves. Recorded from other copies but missing from the present are sigs. Y, bb, E, F, K, N, Q, U, V, and W (Mathews and Iredale; see below).

*Contents* of the imperfect Ellis copy—Title, 1 leaf; ded., 1 leaf (To John Owen, Esq., etc.; dated at Manchester, June, 1846; ded. and title issued with part XII); 34 plates (listed below); text (see below). The classification of birds follows the arrangement of "Baron Cuvier, as modified by Mr. George Robert Gray and adopted in the British Museum" (Prospectus; wrapper of part I, as quoted by Mathews and Iredale, *Austral Avian Record*, 4 (7):178, 1922). In this text, so far as completed (14, possibly 16, of 50 parts contemplated were published), brief descriptions are given of the systematic categories order, "grand division," tribe, and family, with more detailed descriptions of genera, the species not being listed. The present, incomplete copy contains text and plates of parts I, VIII-IX (issued together in some sets), X-XII (issued together with title and dedication and possibly concluding "part first"), and 13-14 (issued together). It thus includes text for the order Accipitres (hawks etc., and owls, the former, at least, complete, and evidently all issued of the latter) on the leaves A1-D2, a small part of the material on the Passeres (bb2-3), and all issued of the material on Scansores (nearly or quite completed), including toucans, parrots, woodpeckers, and cuckoos (G1-2k1) as classified by the author (including barbets and *Indicator*).

The plates included in the same parts do not correspond with the text. The present copy contains the following: *Garrulus cristatus*, *Tetrao canadensis*, *Setophaga ruticilla*, *Platalea ajaja*, and a black and white plate showing parts of various grouse and sand-grouse (part I); *Hypotriorchis columbarius*, *Vidua paradisica*, *Parus atricapillus*, *Certhia familiaris*, *Bubo virginiana*, *Lanius borealis*, *Porphyrio martinica*, *Plotus anchinga* (several odd mis-spellings occur), and a black and white plate of various anseriform birds (parts VIII-IX); *Columba fasciata*, *Loxia americana*, *Octocris alpestris*, *Scolopax minor*, *Anser albifrons*, *Phœnicopterus ruber*, *Rhynchops nigra*, and *Tantalus loculator* (parts 13-14); *Sialia wilsonii*, *Quiscalus purpureus*, *Pyrranga rubra* (=Scarlet Tanager), *Strobilophaga enucleator*, *Picus erythrocephalus*, *Cinclus morinellus* (Turnstone), *Recurvirostra americana*, *Hemipalma multistriata* ("Hudsonian Sandpiper" = Stilt Sandpiper?), *Dafila acuta*, *Erismatura rubida*, *Thalassidroma leachii*, and (1 pl.) *Hydrochelidon plumbea* and *Sterna wilsoni* (parts X-XII).

A rare work, designed to describe and illustrate the genera of birds, but never completed. It has been described in minute detail by Mathews and Iredale (cited below), who furnish some evidence for dating it 1845 (April?)-1846 (June?). Mullens and Swann allude to 16 parts but there seems to be no direct evidence that more than 14 were published. The work appears to have been published

almost simultaneously at London and Manchester, and perhaps at Edinburgh as well, the timing and grouping by numbers having apparently differed slightly in two places. Presumably there is only one setting of type.

The method of publication, the signing, and other details of the work are almost grotesquely irregular and it is possible that more of it will yet be discovered. Mathews and Iredale (p. 176) wrote of the author ". . . apparently he was endowed with restless energy and ambition, but many of his ideas never fructified . . . . Brown has been accused of piracy and anticipating other people's suggestions, but we cannot altogether agree with this view from the facts available." Newton, forthrightly but perhaps unjustly, took a less charitable view of the work and its author, writing: "[It] is discreditable to all concerned with it. It soon ceased to appear and remains incomplete. Had it been finished it would have been useless. The author had before (1831) attempted a similar act of piracy upon Wilson's *American Ornithology*."

Mathews, G. M., and Iredale, T., *Austral Avian Record*, 4 (7):176-194, 1922 (descr., etc.); Mullens and Swann, 98 (hist., descr.); Newton, 30-31 (and footnote 3; crit.); Nissen, 154 (gives date of [1845-]1847, "2<sup>o</sup>," and indicates 16 parts [!] without comment or evidence); Wood, 264 (complete copy).

#### BROWNE, ALEXANDER MONTAGU

395. 1889. *The / vertebrate animals / of / Leicestershire and Rutland. / By / Montagu Browne, F.Z.S., / Curator of the Town Museum, Leicester [Etc., 4 lines]. / With four plates and a map. / Birmingham and Leicester: / Midland Educational Company, Limited. / 1889.*

8vo (25.0 × 18.9 cm). Pp. i-xii, 1-223; col. front. (map), 4 lith. plates (by the author; 1 col., 1 partly col.; 3 ornith.), fold. table.

*Contents*—Half-title; title; pref. (signed Montagu Browne; Leicester, August 1889); list of subscribers; text, pp. 1-203 (birds, pp. 39-172 and fold. table at p. 172); index, pp. 205-223; errata, p. 223. Treats fossil forms as well as recent. A thorough county natural history, containing much basic information. The Earl of Gainsborough is said to have supplied many of the records (Mullens and Swann).

The present copy belonged to C. Reginald Haines whose extensive annotations fill leaves bound in at the end of the book (these are paged in MS., I-II, 1-238). The notes are on birds and mammals and the former seem to be the basis of Haines' work, *Notes on the birds of Rutland*, 1907, which is also in the Ellis Collection. Laid into the volume is a letter from Browne to Haines, dated November 7, 1901, and containing comments on the text (birds) evidently in answer to a query. Another copy in hand is signed by the author.

BMNH, I:261; Irwin, 216; Mullens and Swann, 99; Wood, 264.

#### BROWNE, Sir THOMAS (1605-1682)

396. 1902. *Notes and Letters / on the / Natural History of Norfolk / more especially on the / birds and fishes / from the MSS. of / Sir Thomas Browne, M. D. / (1605-1682) / In the Sloane Collection in the Library of the British / Museum*

and in the Bodleian Library, Oxford / With notes by / Thomas Southwell, F.Z.S. / Member of the British Ornithologists' Union; Vice-President of the / Norfolk and Norwich Naturalists' Society / London / Jarrold & Sons, 10 & 11, Warwick Lane, E. C. / All rights reserved / 1902.

8vo (22.4 × 14.5 cm, untrimmed). Pp. i-xxvi, 1-102; slip (errata; at p. 99), front. (facsimile of letter, in half-tone).

*Contents*—Half-title; title; advt. (tipped in; not included in collation above); conts.; introd., pp. vii-xxvi (signed T.S., at Norwich, December 1901), giving historical and biographical details; text, consisting of Browne's notes and letters transcribed intact with frequent editorial comment in brackets and footnotes. The text contains "Notes on certain birds found in Norfolk" (pp. 1-30), notes on fishes and marine animals in Norfolk (pp. 31-56), and letters to Dr. Christopher Merrett (pp. 57-85), author of *Pinax rerum naturalium Britannicarum*. Appendices A-D, occupying pp. 86-98, reproduce a number of additional documents. Index pp. 98-102.

The present is the "best edition" of Browne from an ornithological standpoint, the editor's contribution being noteworthy, and forms an historically important description of early conditions in Norfolk. A complete collection of Browne's works, known as the Wilkins edition, was published in three volumes some years before the present (Mullens and Swann). Browne's letters to Merrett contained much of the material used by the latter in preparing the famous *Pinax* (see above), which contained the earliest printed list of British birds (1666). Others of his notes, according to James Fisher (*A history of birds*, Boston, Houghton Mifflin, 1954, p. 21), were sent to Willughby and Ray.

Mullens and Swann, 100; Wood, 265.

### BROWNE, WILLIAM GEORGE (1768-1813)

397. 1799. *Travels / in / Africa, / Egypt, and Syria, / from the year 1792 to 1798. /* By W. G. Browne. / London: / printed by T. Cadell Junior and W. Davies, Strand; and / T. N. Longman and O. Rees, Paternoster-Row. / 1799.

4to (25.8 × 21.1 cm). Pp. [2] [v] vi-xxxviii, 1-496; engr. front., diagram, 2 fold. maps.

*Sigs.*— $\pi 1 a-d^4 e^2 (-e2 = \pi 1?)$ , B-3R<sup>4</sup>; 266 leaves.

*Contents*—Title, 1 leaf; pref., pp. v-xxviii; conts., pp. xxix-xxxviii; text, pp. 1-443, in chapters I-XXIX, treating many aspects of the countries traversed and the author's experiences therein; appendix, pp. 445-496. The natural history of Dar-Fûr, in the Sudan, is treated briefly on pp. 255-275 (mammals, birds, reptiles, insects, minerals, plants), 9 species of birds being listed, with a few comments, on pp. 263-264.

A well-known work, of negligible importance to ornithology, but included here because of the early date of the few observations given. Mammalogists may find it of slightly greater interest. An enlarged second edition appeared in 1806. Editions appeared also in several other languages.

Cox, I:394 (work possibly dated 1800).

## BRUCE, JAMES (1730-1794)

398. 1805. *Travels / to discover the / source of the Nile, / in the years / 1768, 1769, 1770, 1771, 1772, & 1773. / By / James Bruce, of Kinnaird, Esq. F.R.S. / The second edition, / corrected and enlarged. / To which is prefixed, / a life of the author. / Vol. VII. / Edinburgh: / printed by James Ballantyne, / for Archibald Constable and Co. and Manners and Miller, / Edinburgh; / and Longman, Hurst, Rees, and Orme, London. / 1805.*

Title of vol. VIII (atlas) is as follows:

[*Idem*, 11 lines] / Vol. VIII. / Containing the plates and maps. / Edinburgh: / [*Idem*, 1 line] / for Archibald Constable and Co. and Manners and Miller, Edinburgh; / [*Idem*, 2 lines].

2 vols. (of 8); text, 8vo (22.8 × 14.2 cm, untrimmed); atlas, 4to (32.0 × 24.8 cm, untrimmed).

Vol. VII: pp. [4] i-iii [iv], 1-436 [8].

Vol. VIII: (atlas): pp. 1-16; 79 engr. plates, mostly by James Heath, arranged in 3 series as follows: plates 1 (front.; portr. of author by D. Martin, engr. by Heath), 2-19 (illustrating vols. I-V), nos. I-III (illustr. vol. II), 1-57 (illustr. vol. VII); nos. 31-38 and 55 ornith., nos. 25-30, 39-43, and 56 also zoological), 3 engr. fold. maps.

*Contents*—Vol. VII: half-title, 1 leaf; title, 1 leaf; conts., pp. i-iii; corrigenda and addendum, to entire work, p. [iv]; text, pp. 1-60, completing that of the eighth and last "book" of the work (misnumb. book VII on p. 1); appendix to books VII and VIII, pp. 61-106; "Appendix to the travels to discover the source of the Nile, containing a selection of natural history," pp. 107-418; index to entire work, pp. 419-436; advt., 4 leaves. The second appendix above is responsible for inclusion of the work here. Besides an introduction (pp. 107-115) it contains sections devoted to plants, mammals, birds (pp. 250-283, 342-344), reptiles, etc. Zoological matter included in certain "additional articles" starting on p. 323 is said to have been prepared by Bruce especially for this edit. The author contents himself with several selections from his observations, giving rather detailed descriptions of a few of the more spectacular species encountered in Abyssinia, including discussions of actual specimens, how obtained, and other observations. There is an interesting discussion of the history of the Sacred Ibis in Egypt. Most of the species discussed are figured in the atlas. Vol. VIII (atlas): half-title and title, pp. 1 and 3, respectively; explanation of plates, pp. 5-16; plates as indicated. By modern standards the 9 uncol. figs. of birds are indifferently drawn, but are recognizable to species in most if not all cases. They appear over their Abyssinian names. According to the editor (p. 323) the author's entire collection of drawings, largely unpublished, amounted to "about 300 articles," mainly plants and birds.

The first edition of this well known work was published in 1790, in 5 volumes, 4to. According to Cox, two such editions appeared that year, at London and Edinburgh. A considerable number of editions and translations followed, including the present "approved second edition," but I am not sure of the number of true editions or the real rank of the present. The work appeared many years after the return of its noted author, whose largely authentic accounts occasioned

incredulity in 18th Century England so great as to result in a considerable output of satirical and critical literary effort, including a sequel to Raspe's *The travels of Baron Munchausen*, dedicated to Bruce (1792). Bruce's many critics, among them Horace Walpole, eventually turned out to be the fools in the case. The present set of 8 volumes (7 volumes text; 1 volume atlas) is complete, only those parts with ornithological content being described here. Another issue of the same edition is at hand, but lacks the atlas. Dated 1804 throughout, it differs in arrangement of title and imprint (London publishers being "T. N. Longman and O. Rees, London"). The ornithological portion, at least, is from the same setting of type.

The ornithological plates and text of the work are based on observations made on the spot, being an interesting record of very early ornithological work in Africa. Certain of Buffon's plates (the *Planches enluminées* of Daubenton) are here indicated to have been based on specimens collected by Bruce, and it is said that Latham used his original drawings (see *Jour. Soc. Bibl. Nat. Hist.*, 1949:173-178).

BMNH, I:212 (first edit.); Cox, I:388; Swainson, William, *Natural history of the birds of western Africa*, Edinburgh, W. H. Lizars, 1837 (vol. I:17-84), being vol. VII of Jardine's Naturalist's Library (interesting account of Bruce).

#### BRUNER, LAWRENCE (1856-1937)

399. 1896. *Some notes / on / Nebraska birds. / A List of the Species and Subspecies Found in the State, with Notes / on Their Distribution, Food-Habits, Etc. / Corrected to April 22d, 1896 / By Lawrence Bruner, / Professor of Entomology and Ornithology, University of Nebraska. / [Reprint from the Report of the Nebraska State Horticultural Society for the Year 1896.] / Lincoln, Neb.: / State Journal Company, Printers. / 1896.*

8vo (22.2 × 14.5 cm). Pp. [47] 48-178; text-cuts 1-51.

*Contents*—Title, p. [47]; introd., pp. 48-49; "Remarks about birds in general," pp. 50-56; text, a list of Nebraska birds, etc., pp. 57-163; appendix, "The bird law of Nebraska" etc., pp. 164-166; index, pp. 167-178. Short accounts of each form, giving terse descriptions of status in Nebraska.

A sketchy and preliminary work, although doubtless useful in its day. The illustrations are crude. Reprint, without change of pagination but with addition of title-page. Published in May. Revised in 1904 (see No. 400).

Wood, 265; Zimmer, 102. Reviewed: *Auk*, 1896:245-246 (F. M. Chapman).

#### BRUNER, LAWRENCE; ROBERT H. WOLCOTT; and MYRON HARMON SWENK

400. 1904. *A / Preliminary Review / of the / Birds of Nebraska / with synopses / By / Lawrence Bruner Robert H. Wolcott / Myron H. Swenk.*

(21.2 × 14.8 cm). Pp. 1-116, [10]; 2 text-cuts.

*Contents*—Title; introd., pp. 3-4; birds in relation to agriculture and horticulture, pp. 5-11; "topography" of a bird, pp. 12-13; synopses (keys) and list (briefly annotated, giving in moderate detail many early records) of species, pp. 16-116; index, 9 unnumb. pp.

Title and contents self-explanatory. According to a note in *The Nebraska Bird Review* (vol. 2, no. 3, p. 100, July, 1934) the work was published in 1904 as the "Annual Report Nebraska State Board of Agriculture for the Year 1903, pp. 1-127 (separately paged from body of report)," and (present copy) "Omaha, Neb.: Klopp & Bartlett Co. Reprinted, with revisions, in separate form." The work superseded an earlier one by Bruner (No. 399) and has subsequently been replaced by the "Check-list of the birds of Nebraska" by F. W. Haecker, R. Allyn Moser, and Jane B. Swenk (*Nebraska Bird Review*, vol. 13, May, 1945; revised reprints issued November, 1945). The Ellis copy is in original pink paper covers with inscriptions of Lewis Lindsay Dyche, Lawrence Bruner, and Remington Kellogg.

Zimmer, 103.

BRÜNNICH, MORTEN THRANE (1737-1827)

401. 1764. M. Th. Brünnichii / *Ornithologia / borealis*, / Sistens / Collectionem Avium / Ex omnibus, imperio danico subjectis, / provinciis insulisque borealibus / Hafniae factam, / Cum / Descriptionibus Novarum, / Nominibus Incolarum, / Locis Natalium / et / Icone. / Imprimatur, J. C. Kall. / Hafniae, MDCCLXIV.

8vo (19.8 × 12.5 cm). Pp. [8] 1-80; 1 col. fold. plate.

*Sigs.*— $\pi^4$ , A-D<sup>8</sup> E-F<sup>4</sup>; 44 leaves.

*Contents*—Title,  $\pi 1^r$  (v. blank); ded. (Domino Christiano de Fleischer),  $\pi 2$ ; Lectori,  $\pi 3^r$ - $\pi 4^v$ ; text, A1-F1<sup>v</sup> (pp. 1-74), being (Zimmer) "A discussion of the birds of Denmark and Danish territory, with bibliographic references, vernacular (as well as binomial Latin) names, accounts of local distribution, and descriptions of many forms, a number of which are new"; "Dubia," F2<sup>r</sup> (p. 75); printer's imprint, F2<sup>v</sup> (p. 76); appendix, F3<sup>r</sup>-F4<sup>v</sup> (pp. 77-80).

An early source work important in nomenclature and containing the first descriptions of certain North American birds. Bookplate: Frederick Ducane Godman.

Wood, 265; Zimmer, 103.

402. 1771. M. Th. Brünnichii / *Zoologiae / fundamenta / Praelectionibus Academicis / Accomodata.* / Grunde / i / Dyrekoeren. / Hafniae et Lipsiae MDCCLXXI. / Apud Frider. Christ. Pelt. / Litteris Godichianis.

8vo (19.2 × 12.0 cm). Pp. [4] [1-5] 6-253 [254].

*Sigs.*— $\pi^2$ ( $\pi 2 + 1$ ), A<sup>8</sup>(-A1) B-P<sup>8</sup> Q<sup>8</sup>(-Q8); 129 leaves.

*Contents*—Title,  $\pi 1$  (v. blank); ded.,  $\pi 2$  (in Latin; v. blank); ded., p. 1 (in Danish); quots., in Latin and Danish, p. 3; Latin pref., p. 4; Danish pref., p. 5; introd., pp. 6-10 (Latin on left-hand pp., Danish on right); text, pp. 10-253, similarly arranged, giving classification and characteristics of many groups of animals (birds, pp. 50-93), and artificial keys to the groups (general introductory matter and keys to the classes, pp. 10-23); errata and addenda, p. 254.

Of historic interest as an early and complete classification of birds (to genus). Among the earlier works using the "key" system of arrangement.

BMNH, I:267 (dated 1772).

BRYAN, WILLIAM ALANSON (1875-1942)

403. 1901. *A key to the birds of the Hawaiian Group.* / By / William Alanson Bryan, / Curator of Ornithology in the Museum./ Honolulu, H. I.: / Bishop Museum Press. / 1901.

(29.2-29.8 × 23.5-24.5 cm, untrimmed). Pp. i-iv 5-76; fotogr. plates XVI-XXX. Repaged, with original pagination (259-332) retained in brackets.

*Contents*—Title; foreword, pp. iii-iv; text, pp. 5-63 (pp. 261-319 of orig.); "Table showing the distribution of birds in the Hawaiian Group," pp. 65-67; index and synonymy, pp. 69-76. The text consists of a series of keys, with cross-references, from higher groups down to species, with brief descriptions of the latter. The photographs are of museum study skins.

A separate, with special title, of a paper in the *Memoirs of the Bishop Museum*, 1:259-332, and a useful work for the identification of Hawaiian birds. The Ellis copy has the original wrappers bound in at the back.

Wood, 266; Zimmer, 103. Reviewed: *Ibis*, 1902:146.

BRYANT, HAROLD CHILD (1886- )

404. 1929. *Outdoor heritage* / By Harold Child Bryant / Instructor, Extension, University / of California; in Charge, Yosemite / Nature Guide Service; Lecturer / and Writer / [*Orn.*] / of the series / California / Edited by / John Russell McCarthy / Powell Publishing Company / San Francisco Los Angeles Chicago.

(23.5 × 15.5 cm). Pp. [14] 1-465 [466, 2]; front., 13 plates (block-prints, printed one side only but included in pagination).

*Contents*—Facsimile autographs of California pioneers, 2 leaves; half-title; title (copyright on v., dated 1929); conts.; (r.) and list of illustrs. (v.), 1 leaf; pref., 2 leaves (dated January 1929); text, pp. 1-398; bibl., pp. 401-441 (by chapters); index, pp. 445-465, advt., 1 leaf. The text, in chapters I-XI, deals with a variety of subjects pertinent to the natural history of California. Birds and other animals are discussed liberally throughout the work. Both beginning and advanced nature enthusiasts, especially in California, should find the extensive bibliography useful.

A popular work combining authoritative biological information with interesting prose.

BUCHANAN, JOHN LANE (fl. ca. 1780-1816)<sup>1</sup>

405. 1793. *Travels in the western Hebrides: from 1782 to 1790.* / By the / Rev. John Lane Buchanan, A. M. / Missionary Minister to the Isles from the / Church

<sup>1</sup> Mullens and Swann, probably by typographical error, give the author's dates as "fl. ca. 1730-1816." *The Dictionary of National Biography* gives the middle name as Lanne.

of Scotland. / London: / printed for G. G. J. and J. Robinson, Paternoster- / Row; and J. Debrett, opposite to Burlington / House, Piccadilly. / 1793. / Price 3s. 6d.

8vo (20.7 × 12.4 cm). Pp. i-xi [xii], 1-251.

*Sigs.*—π<sup>6</sup>, A-P<sup>8</sup> Q<sup>4</sup> R<sup>2</sup>; 132 leaves.

*Contents*—Half-title, 1 leaf (v. blank); title, 1 leaf (v. blank); advt., pp. v-vii; conts., pp. ix-xi; introd., pp. 1-10; text, pp. 11-251, in chapters I-X (chapters IX and X misnumb. VIII and XI), treating various aspects of the islands and their inhabitants. Extended reference to birds appears on pp. 16-21 and 122-135 (birds of St. Kilda and methods of hunting them; especially gannets, fulmars, puffins, and gulls). There is interesting reference also to the Great Auk, or "garefowl."

An interesting and early work on these remote Scottish islands, with considerable interesting reference to birds. Bookplate: Major General Sir George Townshend Walker.

Mullens and Swann, 102-103; Wood, 266.

#### BUCHHOZ, PIERRE JOSEPH (1731-1807)

406. 1775(?)—81. **Premiere centurie / de planches / enluminées et non enluminées / Representant au Naturel / Ce qui se trouve / de plus Interessant et de plus Curieux / parmi / les animaux, les vegetaux / et les mineraux, / Pour servir d'intelligence / à l'Histoire Generale / des trois Regnes de la Nature. Par Mr. Buc'hoz Medecin Botaniste de Monsieur / Et Auteur des Dictionnaires des trois Regnes de la France. / Decade 1e. / Regne Animal. / [Orn.] / A Paris. / Chez Lacombe Libraire rue Christine. / Et Chez l'Auteur rue Hautefeuille. / Avec privilege. / Mlle. Niquet, Scrip. [*Engr. title printed in red*]**

Title of second vol. as follows:

**Seconde centurie / de planches / enluminées / et non enluminées / Representant au naturel / [*Idem, 3 lines*] les Animaux, les Vegetaux, et les Mineraux, / Pour servir / d'intelligence à l'Histoire Generale / des trois regnes de la nature. / Par Mr. Buc'hoz / Medecin Botaniste de Monsieur. / Et auteur des Dictionnaires des trois Regnes de la France. / Decade I<sup>e</sup>. / Regne animal. / A Amsterdam. / Chez Marc-Michel Rey, Libraire. / 1778. [*Engr. title printed in red*]**

2 vols., folio (50.5 × 33.5 cm).

Vol. I: 200 engr. plates (being 100 distinct plates, each in both col. and uncol. states, separated by tissues) in 10 "decades" of 10 col. and 10 uncol. plates each, numb. I-X in each case; 20 leaves (engr. title and "explication des planches," 1 to each in each "decade").

Vol. II: 200 plates, 20 leaves, arranged as in vol. 1.

*Contents*—As collated above. These remarkable vols. have no covering titles, each "decade" or livraison having its own engr. title, varying from others in minor detail and color, transcribed above being titles of the first "decade" of each "centurie." Each "decade" is devoted to a kingdom—animal, vegetable, or mineral, in that order—each vol. thus having "decades" 1, 4, 7, and 10 devoted to animals,

2, 5, and 8 to plants, and 3, 6, and 9 to "minerals" including fossils. In all, 80 different plates (each present in both col. and uncol. state) are concerned with animals, and 60 each with plants and minerals. Animals figured include birds, mammals, reptiles, fishes, and various invertebrates. The first vol. contains 12 ornithological plates, the second 14, these often bearing 2 or more figs. and showing eggs and nests as well as birds. The work of a number of artists and engravers appears, the bird plates being by Desmoulins (J.B.S.F., or F.A.; see Nissen) and uniformly rather crude. Several New World species are figured, including the Cedar Waxwing (*Bombycilla cedrorum*) and Wood Duck (*Aix sponsa*) of the United States. The "explications des planches" at the ends of the "decades" often give the locations of specimens used in making the drawings. No scientific nomenclature is used. The 26 ornithological plates are numb. as follows: (vol. I) decade 1, plates III, IV; decade 4, plates III, IV; decade 7, plates II, III, IV; decade 10, plates II, III, V, VIII, X; (vol. II) decade 1, plates II-VII, IX, X; decade 7, plates I, IV, V, VII, IX; decade 10, plate VI.

An unusual, sumptuous, and little-known work, although of relatively little ornithological importance today. It contains some comparatively early plates of New World birds. On unstated evidence BMNH dates the work "(1775)1778-1781." I have found no direct evidence for dating the first volume (no decade of which bears a date). The decades of the second volume are dated Amsterdam, 1778 (nos. 1-3); Paris, 1778 (no. 4); Amsterdam 1779 (no. 5) and 1780 (no. 6); Paris, 1780 (nos. 7, 8); and Paris, 1781 (nos. 9, 10), and in the absence of evidence to that effect, it seems to me unlikely that all 10 decades of the first "centurie" appeared in 1775. A further 20 plates are said to have been published later (Quérard, Joseph Marie, *La France litteraire*. Paris, Didot, 1827-64, vol. 1, p. 549), and the ornithological plates were used in other works by Buc'hoz, such as *Abbildungen der Vögel*, etc., Nürnberg, 1785. The text describing the objects here figured appeared in Buc'hoz's *Histoire générale et économique des trois règnes de la nature*, Paris, 1777, folio edition 1789 (Anker).

Anker, 73; BMNH, I:275; Nissen, 156; Ronsil, 75.

#### BUCKLAND, FRANCIS TREVELYAN (1826-1880)

407. 1875. *Log-book / of a / fisherman and zoologist / by / Frank Buckland, M. A., / late student of Christ Church, Oxford; / Inspector of Salmon Fisheries for England and Wales, / etc., etc. / Illustrated. / London: / Chapman & Hall, 193, Piccadilly. / 1875. / [All rights reserved.]*

8vo (20.2 × 13.2 cm, untrimmed). Pp. i-xiv [xv-xvi], 1-407; front., 3 plates, 23 engr. text-figs. (4 ornith.).

*Contents*—Half-title; title; ded.; pref., pp. vii-xii; conts.; list of illustrs.; text, pp. 1-400, in numerous unnumb. "chapters" dealing popularly with a miscellany of subjects more or less related to natural history. Ornithologically inconsequential reference to birds occurs throughout, with comments on the anatomy of the bittern and woodpecker (pp. 144-150) and bustard (pp. 118-112). Index, pp. 401-407.

Title and contents self-explanatory.

Mullens and Swann, 103; Wood, 266.

408. 1887. *Notes and jottings / from / animal life / by the late / Frank Buckland, M. A. / H. M. Inspector of Fisheries / Author of 'Curiosities of Natural History' etc. etc. / With Illustrations / A new edition / London / Smith, Elder, & Co., 15 Waterloo Place / 1887 / [All rights reserved].*

8vo (18.2 × 12.0 cm). Pp. i-viii [ix-x], 1-141; engr. figs. 1-16 (none ornith.).

*Contents*—Half-title; title; pref. signed G. C. Bompas, London, April, 1882); conts.; list of illustrs.; text, pp. 1-141, in 37 chapters devoted to popular discussions of a miscellany of natural history subjects. Occasional reference to birds.

Previously published piecemeal in *Land and Water* and *The Leisure Hour*, and "selected and arranged by Frank Buckland, shortly before his death, with a view to their early publication" (preface by G. C. Bompas). The Ellis copy is bound uniformly with a copy of the *Life of Frank Buckland* by G. C. Bompas.

Wood, 266.

409. 1888. *Curiosities / of / natural history. / By / Francis T. Buckland, M. A., / Late student of Christ Church, Oxford, / and Her Majesty's Inspector of Salmon Fisheries, etc. / Third Series. / The popular edition. / [Seal] / London: / Richard Bentley and Son, / Publishers in Ordinary to Her Majesty the Queen. / 1888.*

8vo (16.5 × 10.2 cm). Pp. i-xiv [xv-xvi], 1-353 [354]; front., 5 engr. plates.

*Contents*—Title; pref., pp. iii-vii (referring to "this Second Edition," dated Nov. 27, 1867); conts. (third series); list of illustrs.; text, pp. 1-336, in about 25 unnumb. chapters being a diverse mixture of fact and fancy about natural history. Scattered material on birds appears throughout but is of slight ornithological interest. Appendix, pp. 337-353, to the "first Volume," suggests that more volumes may exist.

Wood (p. 266) refers to a "fourth edition" of 1859, giving dates of 1857 and 1858 for the first and "second" editions and mentioning a "new series in two vols." in 1866. The Ellis copy is evidently the first of two volumes of a still later edition.

#### BUFFALO SOCIETY OF NATURAL SCIENCES

410. 1938. *Seventy-five / years / A History of / The Buffalo Society of / Natural Sciences / 1861-1936 / [Seal] / Volume XVIII of the Bulletin of / The Buffalo Society of Natural Sciences / Buffalo, New York / 1938.*

(23.5 × 15.8 cm, untrimmed). Pp. [2], 1-204; 53 pp. of plates or composite half-tone plates printed on either or both sides, 3 line-cuts.

*Contents*—Title; conts.; list of illustrs.; foreword, entitled "The Second Seventy-five Years" (pp. 5-8); text, pp. 11-180, including a history entitled "Yesterday and the Day Before," with a series of chapters on the history of various departments of the Buffalo Museum of Science and its governing organization, the Buffalo Society. The bird collection and its history are described by Carlos E. Cummings on pp. 76-86 and illustrated by portraits of Charles Linden, James Savage, and a photo. of one of the bird groups. The text is concluded by descriptions of the Museum's current programs and facilities. Pp. 181-188 include a bibl. (containing 9 or more

ornith. titles) of the *Scientific Bulletins* of the Society, 1873-1938; pp. 189-204 list various officials, staff members, etc., of the Society through the years.

Of regional interest as a historical-biographical document in natural history.

BUFFON, GEORGES LOUIS LECLERC (1707-1788)

411. 1770-86. *Histoire / naturelle / des oiseaux. / Tome Premier[-Dixième]. / [Device] / A Paris, [ / Suivant la Copie (Vols. VII-X)] / de l'Imprimerie Royale. / M.DCCLXX [M.DCCLXXII; M.DCCLXXIV; M.DCCLXXVII; M.DCCLXXXVIII; M.DCCLXXXIII; M.DCCLXXXIII; M.DCCLXXXIII; M.DCCLXXXIV; M.DCCLXXXVI].*

10 vols., folio (46.3 × 33.7 cm).

Vol. I: pp. [8] i-xxii [xxiii-xxiv], 1-313 [314-316]; 75 engr. col. plates.

Vol. II: pp. [8] 1-488 [489-492]; 53 engr. col. plates.

Vol. III: pp. [8] 1-282 [283-284]; 98 engr. col. plates.

Vol. IV: pp. [12] 1-405 [406-408]; 97 engr. col. plates.

Vol. V: pp. [i-ii] iii-xi [xii], 1-120 123-363 [364-368]; 98 engr. col. plates.

Vol. VI: pp. [i-iii] iv-xii, 1-582 [583-584]; 102 engr. col. plates.

Vol. VII: pp. [4] i-xii, 1-435 [436]; 142 engr. col. plates.

Vol. VIII: pp. [4] i-viii, 1-412; 140 engr. col. plates.

Vol. IX: pp. [i-ii] iii-viii, 1-249 246-247 252-423 [424-428]; 109 engr. col. plates.

Vol. X: pp. [i-iii] iv, 1-562 [563-564]; 59 engr. col. plates.

*Sigs.*—Vol. I:  $\pi^4$  a-f<sup>2</sup> A-Kkkk<sup>2</sup> (Kkkk<sup>2</sup> misbound before Kkkk<sup>1</sup>); 174 leaves,  $\pi$ 1 and f<sup>2</sup> blank. Vol. II:  $\pi^2$  2 $\pi^2$  A-Gggggg<sup>2</sup> [Hhhhhh]<sup>2</sup>; 250 leaves,  $\pi$ 1 and 6H<sup>2</sup> blank. Vol. III: [a]<sup>2</sup> b<sup>2</sup> A-Bbbb<sup>2</sup>; 292 leaves. Vol. IV:  $\pi^2$  a-b<sup>2</sup> A-Kkkkk<sup>2</sup>; 210 leaves. Vol. V: [a]<sup>2</sup> b-c<sup>2</sup> A-Yyyy<sup>2</sup> \*<sup>2</sup>; 190 leaves. Vol. VI: [a]<sup>2</sup>(±a<sup>1</sup>) b-c<sup>2</sup> A-Hhhhhh<sup>2</sup>; 298 leaves. Vol. VII:  $\pi^2$  a-c<sup>2</sup> A-Rrrrr<sup>2</sup>; 226 leaves. Vol. VIII:  $\pi^2$  a-b<sup>2</sup> A-Lllll<sup>2</sup>; 212 leaves. Vol. IX: [a]<sup>2</sup> b<sup>2</sup> A-Ooooo<sup>2</sup> [Ppppp]<sup>2</sup>; 218 leaves, 5P<sup>2</sup> blank. Vol. X:  $\pi^2$  A-Ccccc<sup>2</sup>; 284 leaves.

*Irregularities and variants*—Extra plates occur in some volumes beyond the 973 plates called for and listed above: vol. I has duplicates of plates 449 and 221 (properly found in vol. IV and vol. IX); vol. IV has two copies of plate 508 and a duplicate of plate 352 (properly found in vol. VIII); vol. V has plate 289 (the *Tyrann hupé, de Cayenne*, at page 284) which is not called for in the list of plates; the plate numbered 352 in vol. VIII (and in vol. IV where it occurs as a duplicate) should be numbered 852. The mistakes in pagination in vols. V and IX result in no loss of text. The title-page of vol. VI is a cancel, suggesting that the Ayer copy described by Zimmer (with the "Suivant la copie" line and the date 1773) has a cancellandum title-page. This does not, however, explain the presence of the date 1773 on the Ayer copy of vol. VII whose title-page in the Ellis copy is clearly not a cancel.

*Contents*—All volumes contain title, a "Table de ce qui est contenu dans ce Volume," and an "Avis pour l'ordre des Planches" giving the numbers of the plates as originally issued by Daubenton (see below) and their placement in the present work. Vol. I contains the "Plan de l'ouvrage," pp. i-xxii, and a "Discours sur la nature des Oiseaux," pp. 1-46, preceded by its own half-title. Most volumes contain

an "Avis" and an errata list on one or more of the final pages, and vol. VII contains an "Avertissement," pp. i-ii, giving details of the progress of the work. Pp. 249-402 of vol. X contain the "Table générale des matières" for the entire work, followed by a "Concordance et table alphabétique des noms des oiseaux," pp. 403-562. The remaining arabic-numbered pages of all volumes are devoted to the extensive and eloquently phrased text, the most ambitious survey of avian life of its time and for many years afterward. The work deals in a general way with the characters, natural history, and distribution of all birds known to its learned and prolific author, assisted by Philibert Gueneau de Montbeillard and l'Abbé Bexon. General comments on groups of birds, as envisioned by Buffon, precede the accounts of species. Linnæan nomenclature is not used, but many binomials (especially those of Hermann, Boddaert, and Gmelin) were later based on Buffon's descriptions. The 973 plates of this edition comprise all of the ornithological plates of Edme Louis Daubenton's *Planches Enluménées*, ca. 1765-1783, (described in this catalogue under the entry DAUBENTON). The 35 non-ornithological plates of that work (not called for in the "Avis"), disbound in a portfolio, accompany this set; according to a note of Ellis' in vol. I, the set and the 35 separate plates were purchased together. Although, as Newton said, "without artistic merit," the plates, executed by Franz Nicolaus Martinet, are of rather consistent technical accuracy.

"One of the early and important landmarks in the history of ornithology . . . based on the nine volumes of 'Oiseaux' in Buffon's 'Histoire' [*Histoire naturelle générale et particulière*], with some changes in the text" (Zimmer). The first edition of this huge undertaking was published in 44 volumes, 4to, 1749-1804, the nine volumes of ornithology bearing a title the same as that of the present edition, but dated 1770-1783, and comprising volumes 16-24 (according to BMNH and others; 23-31 according to Zimmer only) of the whole work (for description see BMNH).

The present, ten-volume folio edition embodies few textual changes from the original, but is, of course, differently paged. It is perhaps impossible to determine which edition of the *Oiseaux* is the "second" since the work was published almost simultaneously in several forms, all overlapping the original in dating. Buffon states, in the *Avertissement* in vol. VII, "On l'a imprimée sous quatre formats. 1. Grand in-folio avec les planches enluménées, en grand papier. 2. Petit in-folio avec les planches enluménées, petit papier. 3. In-quarto avec d'autres planches en noir, & des renvois aux planches enluménées. 4. In-douze avec planches en noir, & les mêmes renvois." His number 1 is the folio edition described here as No. 411. Number 2, according to Anker and the Coe catalogue, differs from the large folio edition only in the size of paper, in the absence of a decorative border around the text, and in the inclusion of the non-ornithological plates in the "Avis." Number 3 is the first edition. Number 4 is the 12mo described in this catalogue as No. 412. All of these texts contain the complete ornithological writings of Buffon, as aided by Montbeillard and Bexon, with the several variations incorporated in Buffon's lifetime. Together they form, directly or indirectly, the basis of all later, variously enlarged or abridged editions, several of which are described below.

According to Zimmer, the folio editions were expressly designed to accompany the Martinet plates made for Daubenton's *Planches Enluménées*. These appear to

have been intended originally for the ornithology of the *Histoire naturelle*, but were produced in a supply inadequate for the original quarto edition, 262 plates for which were accordingly designed by de Sève.

Zimmer gives a necessarily lengthy and involved account of certain discrepancies between references by Buffon and others to plate 476 as it occurs in the *Planches* and in the folio edition. In copies of both at hand, the plates numbered 476 are the same, figuring a tinamou (rather than certain shrikes) and supporting Zimmer's conclusion that the *Planches* and the illustrations of the folio edition are probably identical in all respects. The only difference observed upon comparison was the number of one plate (852 in the *Planches* and 352 in the folio edition).

Montbeillard's contributions to the work, as arranged in the folio edition, are indicated in the tables of contents of volumes III-VII as follows: vol. III, entire volume; vol. IV, pp. 1-204, 250-405; vol. V, pp. 53-131, 163-183, 294-363; vol. VI, pp. 1-30, 197-207, 228-372, 389-477, 491-582; vol. VII, pp. 230-350. However, according to an "avertissement" on pp. ix-x of vol. V of the 12mo edition (No. 412), Montbeillard was responsible also for nearly all of the material under Buffon's name "depuis l'Autruche jusqu'à la Caille" (vol. II, pp. 5-479, of the folio edition), while Buffon prepared the sections under Montbeillard's name containing "les articles du Pigeon, du Ramier, & des Tourterelles" (vol. III, pp. 1-57, folio edition). This notice, which occurs in both 4to and 12mo editions but not in the folio, is vaguely worded, so that exact allocation of pages may not be correct as given here.

The Ellis set is bound in full contemporary red morocco, gold-tooled, and has the bookplate of Alfred Darby.

Anker, 74-81 (various edits.; descr., hist.); BMNH, I:281; Newton, 10-11 (hist., crit.); Nissen, 158-160 (various edits.); Nordenskiöld, 219-229 (hist., biogr.); Ronsil, 76-81 (descr., hist.; various edits.); Stresemann, 58-63 (hist., crit.); Wood, 267; Zimmer, 104-106 (descr. present and other edits.; hist.).

412. 1770-85. *Histoire / naturelle / des oiseaux. / Tome Premier [-Dix-huitième]. / [Device] / A Paris, [ / Suivant la Copie in-4<sup>o</sup>. (Vols. 7-10, 13-18)] / de l'Imprimerie Royale. / M.DCCLXX [M.DCCLXX (Vol. 2); M.DCCLXXII (Vols. 3-4); M.DCCLXXV (Vols. 5-6); M.DCCLXXIX (Vols. 7-10); M.DCCLXXX (Vols. 11-14); M.DCCLXXXI (Vols. 15-16); M.DCCLXXXV (Vols. 17-18)].*

18 vols., 12mo (16.3 × 9.8 cm).

Vol. I: pp. [8] i-xxxvi, [1-2] 3-352; engr. plates I-XIV.

Vol. II: pp. [8] [1] 2-351 [352]; engr. plates I-XV.

Vol. III: pp. [8] 1-417 [418-420]; engr. plates I-IX.

Vol. IV: pp. [8] 1-405 [406-408]; engr. plates I-XVIII.

Vol. V: pp. [i-vi] vii-xxiii [xxiv], [1] 2-456; engr. plates I-XIX.

Vol. VI: pp. [i-v] vi-xii, [1] 2-246, i-clxxvii [clxxviii]; engr. plates I-XII.

Vol. VII: pp. [i-iv] v-xii, [1] 2-430 [431-432]; engr. plates I-XIII.

Vol. VIII: pp. [i-iv] v-xv [xvi], [1] 2-418, i-xlvi; engr. plates I-XIV.

Vol. IX: pp. [i-iv] v-xii, [1] 2-472; engr. plates I-XV.

Vol. X: pp. [2] [i-v] vi-xiii [xiv], [1] 2-316, i-xlvi [xlvii-xlviii]; engr. plates I-VII.

Vol. XI: pp. [i-iv] v-xx, [1] 2-495 [496]; engr. plates I-XV.

Vol. XII: pp. [i-iv] v-xii, [1] 2-482 [483-484]; engr. plates I-X.

Vol. XIII: pp. [i-v] vi-xix [xx], [1] 2-446 [447-448]; engr. plates I-XIV.

- Vol. XIV: pp. [i-v] vi-xii, [1] 2-360, i-lxxii; engr. plates I-XVII.  
 Vol. XV: pp. [i-iv] v-xvi, [1] 2-439 [440]; engr. plates I-XXIV.  
 Vol. XVI: pp. [i-iv] v-viii, [1] 2-326, i- cli [clii-cliv]; engr. plates I-XV.  
 Vol. XVII: pp. [i-ii] iii-viii, [1] 2-484; engr. plates I-XXIII.  
 Vol. XVIII: pp. [i-ii] iii-iv, [1] 2-135 [136], i-xlvi, 1-486; engr. plates I-VIII.

*Sigs.*—Vol. I:  $\pi^4$  a<sup>12</sup> b<sup>6</sup> A-O<sup>12</sup> P<sup>8</sup>; 198 leaves. Vol. II:  $\pi^4$  A-O<sup>12</sup> P<sup>8</sup>; 180 leaves. Vol. III:  $\pi^4$  A-R<sup>12</sup> S<sup>6</sup>; 214 leaves. Vol. IV:  $\pi^4$  A-R<sup>12</sup>; 208 leaves. Vol. V:  $\pi^{12}$  A-T<sup>12</sup>; 240 leaves. Vol. VI:  $\pi^8$  A-L<sup>12</sup> a-F<sup>12</sup> g<sup>8</sup>; 218 leaves. Vol. VII: a<sup>6</sup> A-S<sup>12</sup>; 222 leaves. Vol. VIII: a<sup>8</sup> A-T<sup>12</sup> V<sup>4</sup>; 240 leaves. Vol. IX:  $\pi^2$  a<sup>4</sup> A-T<sup>12</sup> V<sup>8</sup>; 242 leaves. Vol. X: a<sup>8</sup> A-P<sup>12</sup> Q<sup>2</sup>; 190 leaves. Vol. XI:  $\pi^{10}$  A-U<sup>12</sup> X<sup>8</sup>; 258 leaves. Vol. XII:  $\pi^6$  A-U<sup>12</sup> X<sup>2</sup>; 248 leaves. Vol. XIII:  $\pi^4$  a<sup>6</sup> A-S<sup>12</sup> T<sup>8</sup>; 234 leaves. Vol. XIV: a<sup>6</sup> A-S<sup>12</sup>; 222 leaves. Vol. XV: a<sup>8</sup> A-S<sup>12</sup> T<sup>4</sup>; 228 leaves. Vol. XVI: a<sup>4</sup> A-V<sup>12</sup>; 244 leaves. Vol. XVII:  $\pi^4$  A-V<sup>12</sup> X<sup>2</sup>; 246 leaves. Vol. XVIII:  $\pi^2$  A-Z<sup>12</sup> Aa-Dd<sup>12</sup> Ee<sup>10</sup>; 336 leaves.

*Irregularities and variants*—Two copies of this set in the Ellis Collection (Ellis Aves B71 and Ellis Aves B72) are from the same setting of type. Aside from errors in binding and the absence of certain plates (all listed below) their differences lie in their half-titles. Particular attention is paid in the listing below to the placement of the title and to any evidence for or against the presence of the half-title in the perfect copy. Vol. I:  $\pi^2$  is the title-page;  $\pi^1$  is wanting in B71 and present as a cancel in B72 with the text “Histoire / naturelle, / générale et particulière, / avec la description / du Cabinet du Roi. / Tome Trente-deuxième.” Vol. II:  $\pi^2$ , title;  $\pi^1$  wanting in B71, cancel half-title in B72 with text as in Vol. I but numbered “Trente-troisième.” Vol. III:  $\pi^2$ , title;  $\pi^1$  wanting in B71 but present in B72 with recto blank and bookseller’s advertisement on verso (“Chez Pancoucke, Libraire, / à l’hotel de Thou, rue des Poitevins, / quartier Saint-André-des-Arcs.”); S6 blank. Vol. IV:  $\pi^1$ , title, with bookseller’s advertisement (text as in vol. III) on verso; R12 (blank?) wanting. Vol. V:  $\pi^3$ , title;  $\pi^1$  wanting;  $\pi^2$  blank. Vol. VI:  $\pi^2$ , title;  $\pi^1$  wanting in B72 but present as a cancel half-title in B71 (text as in vols. I and II of B72 but numbered “Tome Dix-huitième”); gatherings d and e misbound between F and G in B71. Vol. VII-XIV: 2nd leaf, title; 1st leaf, half-title (text as in vols. I, II, and VI but numbered “Septième” through “Quatorzième”); plate VI wanting from vol. XII and plate VIII from vol. XIV in set B71. Vols. XV-XVI: a<sub>2</sub>, title; a<sub>1</sub>, half-title (text “Histoire / naturelle / des oiseaux / Tome Quinzième [Seizième]”). Vols. XVII-XVIII:  $\pi^1$ , title.

*Contents*—In addition to half-title and title-pages (as described above) each volume contains a “Table de ce qui est contenu dans ce Volume” occupying the remainder of the preliminary pages. Vol. I contains also the “Plan de l’ouvrage” (pp. i-xxxvi) and a “Discours sur la nature des oiseaux” (pp. 3-84). On pp. iv-xiii of vol. V is an author’s “Avertissement” giving credit to Gueneau de Montbeillard for the authorship of most of vols. III and IV of this edition [=vol. 2 of the folio] which appeared under Buffon’s name, and stating that certain material signed by Montbeillard was actually prepared by Buffon (see No. 411 for details). Another “Avertissement” in vol. XIII (pp. v-viii) gives notes on the progress of the work. “Tables des matières” occur irregularly throughout the work (second series of roman-numbered pages), vol. VI containing the tables for vols. I-VI, with tables for

each two volumes thereafter appearing in vols. VIII, X, XIV, XVI, and XVIII. Vol. XVI contains the tables for vols. XI and XII (pp. i-lxxxiv) as well as for XV and XVI (pp. lxxxv-clii). Errata lists appear on pp. clxxviii (vol. VI) and 483 (vol. XII). Vol. XVIII includes a "Concordance, et table alphabétique des noms des oiseaux" (pp. 1-486, second series). The text appears to be the same as that of the folio edition (No. 411), roughly two volumes of the 12mo to one of the folio (exactly two to one in comparison with the first, or nine-volume 4to, edition). References to the *Planches enluminées* of Daubenton, which illustrate the folio edition, occur throughout, but the illustrations of the 12mo edition are reduced copies of the Jacques de Sève engravings made for the 4to edition. Many of the plates carry two sets of volume and page numbers, referring to both 4to and 12mo editions.

According to Zimmer, Engelmann, and others, the entire *Histoire naturelle générale et particulière* in this 12mo edition consists of 71 volumes dated 1752-1805, of which the ornithological portion constitutes vols. 47-64. It is this edition which is cited by Boddaert in his *Table des Planches Enluminées de M. d'Aubenton*. The numbering and text of some of the half-titles in the Ellis sets of the ornithological volumes (see above) suggest that the ornithological volumes may also have been issued separately from the work in general although it is impossible to correlate all of the half-titles with such an issue.

Anker, 75; Engelmann, 149; Ronsil, 76; Zimmer, 105 (mentioned but not described).

- 413.** 1785-87. > *Histoire / naturelle / générale / et particulière, / Par M. le Comte de Buffon, Intendant du Jardin du Roi, de l'Académie Française et de celle des Sciences, &c. / Oiseaux, Tome I [-XVIII]. / [Orn.] / Aux deux-ponts, / Chez Sanson & Compagnie. / M.DCC.LXXXV [M.DCC.LXXXV (Vols. II-VI); M.DCC. LXXXVI (Vols. VII-VIII); M. DCC. LXXXVII (Vols. IX-XVIII)].*

The above shows numbering and dating of all vols., and arrangement of titles in vols. I-IX; titles of vols. X-XVIII differ slightly, as follows:

[*Idem, 4 lines*] / Par M. le Comte de Buffon, / Intendant du Jardin du Roi, de / l'Académie Française et de celle des / Sciences, &c. / [*Idem, 5 lines*].

18 vols., 12mo (16.6 × 9.5 cm).

Vol. I: pp. i-xxxiv [xxxv-xxxvi], 1-258; engr. col. plates 1-12.

Vol. II: pp. 1-264; engr. col. plates 1-11.

Vol. III: pp. 1-303 [304]; engr. col. plates I-VI.

Vol. IV: pp. 1-299 [300]; engr. col. plates I-III, 4-8.

Vol. V: pp. i-ix [x] 11-372, engr. col. plates 1-7.

Vol. VI: pp. 1-199 [200], i-cxlix 150-154<sup>1</sup>; engr. col. plates 4, 3, 2, and 1 (renumb. by hand 1-4).

Vol. VII: pp. 1-336; engr. col. plates 1-3.

Vol. VIII: pp. 1-339 [340], i-li [lii], 1-7; engr. col. plates 1-5.

Vol. IX: pp. 1-377 [378], 1-5 [6]; engr. col. plates 1-6.

Vol. X: pp. 1-246, i-xlvi (pp. xlv, xlvi misnumb. xlix, xlx), 1-4; engr. col. plates 1-3.

Vol. XI: pp. 1-400, 1-8; engr. col. plates 1-6.

<sup>1</sup> Zimmer gives this as "I-CXLIX + 1, 150-154."

- Vol. XII: pp. 1-391 [392], 1-6; engr. col. plates 1-4.  
 Vol. XIII: pp. 1-370, 1-6; engr. col. plates 1-6.  
 Vol. XIV: pp. 1-299 [300], i-xviii, 1-6; engr. col. plates 1-5.  
 Vol. XV: pp. 1-349 [350], 1-6; engr. col. plates 1-7.  
 Vol. XVI: pp. 1-258, 1-3; engr. col. plates 1-7.  
 Vol. XVII: pp. 1-385,<sup>2</sup> 1-2 [3]; engr. col. plates 1-10.  
 Vol. XVIII: pp. 1-110, i-clii (pp. cxlvii-clii misnumb. cxlv-cxlix) [clii-cliv]; engr. col. plates 1, 2, III, IV.

*Contents*—All vols. contain half-title and title. Vol. I contains the “Plan de l’ouvrage,” pp. v-xxxiv; an “Avis des editeurs de deux-ponts,” pp. [xxxv-xxxvi]; and a “Discours sur la nature des oiseaux,” pp. 1-60 including sectional half-title. Vol. V contains an “avertissement,” pp. v-ix, concerning progress of the work and details of authorship (for discussion see No. 411). The last few pp. of each vol. contain a “Table de ce qui est contenu dans ce Volume,” these sometimes being separately paged (see collation above). “Tables des matières” for the work appear as follows (terminal roman pagination in collation above): tables for vols. 1-6 in vol. VI; for 7-8 in VIII; for 9-10 in X; for 13-14 in XIV; for 11-12 and 15-18 in XVIII. The text is essentially the same as that of earlier editions (Nos. 411, 412).

Zimmer’s concise summation is adequate: “The ornithological volumes of the ‘Deux-Ponts Edition’ of Buffon’s work. This edition (according to Oberholser, Bull. 86, U. S. Nat. Mus., p. 94, footn., 1914) is the one quoted by Suckow in his ‘Anfangsgründe der theoret. und angewandten Naturgesch. der Thiere,’ 1797-1801. The complete series, published from 1785 to 1791, includes 54 volumes.”

Ronsil, 77; Zimmer, 106-107.

414. 1802. *Histoire naturelle / de Buffon / classée par ordres [ordre (Vols. XI, XX, XXIV)], genres et espèces, / d’après le système de Linné; / avec les caractères génériques / et la nomenclature Linnéenne; / Par René-Richard Castel, auteur du poëme / des Plantes. / Nouvelle édition. / Tome XI [-XXVI]. / De l’imprimerie de Crapelet. / A Paris, / Chez Deterville, rue du Battoir, n° 16. / An X—1802.*

16 vols., 18mo (13.4 × 8.3 cm).

- Vol. I:<sup>1</sup> pp. [4] 1-319; 12 engr. col. plates.  
 Vol. II: pp. [4] 1-326; 8 engr. col. plates.  
 Vol. III: pp. [4] 1-319; 11 engr. col. plates.  
 Vol. IV: pp. [4] 1-309; 4 engr. col. plates.  
 Vol. V: pp. [4] 1-313; 7 engr. col. plates.  
 Vol. VI: pp. [4] 1-307; 6 engr. col. plates.  
 Vol. VII: pp. [4] 1-319; 11 engr. col. plates.  
 Vol. VIII: pp. [4] 1-319; 10 engr. col. plates.  
 Vol. IX: pp. [4] 1-305; 11 engr. col. plates.  
 Vol. X: pp. [4] 1-323; 6 engr. col. plates.  
 Vol. XI: pp. [4] 1-311; 3 engr. col. plates.

<sup>2</sup>Zimmer gives this as “1-385 + I, 1-3.” In two copies at hand the leaf numbered p. 385 on recto is numbered 1 on verso, the following p. being 2 and the final p. unnumb.

<sup>1</sup>Although bearing nos. XI-XXVI of the whole series on their titles, the ornithological vols. are numb. I-XVI on their conjugate half-titles.

- Vol. XII: pp. [4] 1-328; 8 engr. col. plates.  
 Vol. XIII: pp. [4] 1-418; 9 engr. col. plates.  
 Vol. XIV: pp. [4] 1-410; 8 engr. col. plates.  
 Vol. XV: pp. [4] 1-360; 7 engr. col. plates.  
 Vol. XVI: pp. [4] 1-339; 7 engr. col. plates.

*Contents*—All vols. contain unpagéd half-title and title (half-titles read: *Histoire naturelle / de Buffon. / Oiseaux. [ / Tables (Vol. XVI.)] / Tome I [-XVI].*). The titles are those of the whole work as it forms the present “Nouvelle édition,” in vols. I-XXVI edited by Castel, the ornithology being vols. XI-XXVI. Vol. XXVI contains the “tables,” or index, for the whole work, pp. 264-339 (oiseaux, pp. 276-339). Buffon’s ornithological introductory matter has been eliminated from this edition (for full account of the work in earlier edits, see No. 411), as have the “avertissements” of his early editions, his text has been arranged in the order of Linnaeus, and tables of Linnaean names are given at the ends of the accounts of genera and species. The much reduced plates are marked “Deseve, del.,” and are by numerous engravers. They are unnumbered and I have found no way of telling whether all are present.

Another edition of Buffon’s great *Histoire naturelle*, the “Oiseaux” only here described (see Nos. 411, 412, for fuller discussion). The complete set, of which the present work forms a part, consists of 80 volumes, of which I-XXVI are the work of Buffon and his original collaborators, edited by Castel and sometimes referred to as the “Castel edition.” The present set thereof agrees in the date 1802 with one in BMNH which, however, intimates the existence of an earlier issue beginning in 1799. The remaining 54 volumes of the set are an early example of a long and varied list, in many editions and by many authors, of “suites à Buffon,” being continuations and extensions of Buffon’s work. Contents of the whole set are given in BMNH and by Engelmann, which accounts agree closely with each other and with the set at hand. The whole was evidently designed to meet a demand for very small and inexpensive copies of the work. The present edition is not to be confused with the so-called Sonnini edition in 127 volumes, 8vo, ca. 1800-1805 (for descr. see Zimmer, 107-109).

BMNH, I:282; Engelmann, 150; Ronsil, 77.

415. 1825-28. *Oeuvres / complètes / de Buffon, / enrichies d’une vue générale des progrès de plusieurs / branches des sciences naturelles, et mises en ordre / Par M. le Comte de Lacepède, / augmentées d’un volume contenant / le précis des merveilles de la nature, / découvertes depuis Buffon jusqu’à nos jours. / Nouvelle édition, / Ornée d’un portrait de l’auteur, de 234 planches et d’un tableau / gravé de tous les animaux nouvellement découverts. / Tome dix-huitième [-vingt-cinquième]. / [Device.] / Paris. / A. Eymery, Libraire, rue Mazarine, N° 30, / et à la Librairie Française, rue Saint-Anne, N° 16. / 1825.*

Titles to vols. 18-25 (oiseaux) are as above. Vol. 26 is a supplement to the work, entitled as follows:

[*Idem, 3 lines*], / mises en ordre / par M. le Comte de Lacepède, / enrichies par ce savant d’une vue générale / des progrès des sciences naturelles; / nouvelle

édition, / ornée du portrait de Buffon et de 245 belles / gravures. / Tome vingt-sixième. / **Supplément** / contenant un précis des découvertes les plus importantes / nouvellement faites dans l'histoire naturelle. / Paris. / Eymery, Fruger et C<sup>ie</sup>, Libraires, / éditeurs des oeuvres complètes de M. le Comte de Ségur, / rue Mazarine, N<sup>o</sup> 30. / 1828.

8 vols. (ornith., of 25 vols. in all), 1 vol. supplement (to whole work; partly ornith.), 8vo (20.2 × 12.8 cm).

Vol. XVIII: pp. 1-476; engr. col. plates 1-16.

Vol. XIX: pp. 1-566; engr. col. plates 17-32.

Vol. XX: pp. 1-504; engr. col. plates 33-50.

Vol. XXI: pp. 1-505; engr. col. plates 51-64.

Vol. XXII: pp. 1-486; engr. col. plates 65-87.

Vol. XXIII: pp. 1-570; engr. col. plates 88-100.

Vol. XXIV: pp. [4], 1-472; engr. col. plates 101-116.

Vol. XXV: pp. [4], 1-539; engr. col. plates 117-126.

Vol. XXVI (supplement): pp. i-vi, 1-444; 12 engr. col. plates (4 ornith.).

*Contents*—All vols. contain half-title (with advt. on v.) and title. Vols. XVIII-XXV contain Buffon's ornithological text (for details and discussion see No. 411), little changed (but many footnotes eliminated and replaced by others, abbreviated, or discarded altogether). The last few pp. of each vol. contain a "table des articles" for the vol. Buffon's ornithological introductory matter is retained, appearing in vol. XVIII ("Plan de l'ouvrage," pp. 5-23; "Discours sur la nature des oiseaux," pp. 23-76). Buffon's ornithological text is concluded with p. 257 of vol. XXV, the remainder of which contains a "Discours prononcé à l'Académie Française, par M. de Buffon, le jour de sa réception [Aug. 25, 1753]," pp. 258-272; various other speeches of Buffon's in the French Academy, pp. 272-304; "Vue générale des progrès de plusieurs branches des sciences naturelles, depuis le milieu du dernier siècle; par M. le Comte de Lacepède," pp. 305-414 (dated Paris, 12 December 1818); "Tableau des sous-classes, divisions, sous-divisions, ordres et genres des oiseaux, Par M. le Comte de Lacepède," pp. 415-433; "Table méthodique de la classe des mammifères," pp. 434-455; supplement to the last, pp. 456-457; "Table générale alphabétique des principaux articles contenus dans les huit volumes des oiseaux," pp. 458-535; table des articles, pp. 536-539. The supplement, or vol. XXVI, by Lacépède, applies to the whole work, birds being treated on pp. 267-319. The figs. for vols. XVIII-XXV were executed by a variety of engravers from drawings by Jean Gabriel Prêtre; the ornithological drawings for the supplement were done by J. J. LeRoy.

Long after Buffon's death his work, with that of his various collaborators and editors, and the authors of continuations, appeared in a variety of versions, related only by their varying dependence on common sources, under the title *Oeuvres complètes de Buffon* (for edits. not described here see Anker, no. 81; BMNH, I:282; Wood, 268-269; Zimmer, 110-113), the Lamouroux-Desmarest and Richard versions being among the better known of those not at hand. Some of these versions themselves appeared in a number of editions and issues, sometimes in differing numbers of volumes and at wide intervals.

Lacépède edited several editions and/or versions of Buffon, at least one under

the older title *L'Histoire naturelle*, and his version of the later, so-called *Oeuvres complètes* seems possibly to have gone through two editions and several issues or impressions, of which the present is one. According to the description in BMNH of a set seemingly identical with the one in hand, the present edition was first published 1820-22, and appeared again in 1825 and 1828. The set in hand, like that in BMNH, consists of copies dated 1825 in vols. I-XXV and 1828 (newly titled) in vol. XXVI (supplement). Of editions, etc., by Lacépède, Engelmann lists several: an early one under title of *L'Histoire naturelle*, dated 1799-1802, in 76 vols., 18mo; a "Nouvelle édition" under title of *Oeuvres complètes* and date of 1817-19, in 17 vols.; followed by "2d. édit. (sous le même titre.)," 1820-22 (and a re-issue similar to but later than the Ellis set: "26 vols. ornés de 235 pl. de la Ire édit. . . . Nouv. titres de 1828, 29"). Zimmer describes a Lacépède version in 17 vols., dated 1818, this perhaps the same as Engelmann's above-mentioned "nouvelle édition," which is probably the first edition of the text of which the present set represents the second edition. For the history of Lacépède's "Tableaux Méthodiques des Mammifères et des Oiseaux" as here represented in vol. XXV (see contents), but which in some cases constitutes a distinct and separate work, see Zimmer (pp. 109-110, 365-366).

Complete contents of the present set are as follows: Tome I, Éloge de Buffon par Condorcet, Notice sur la vie de Buffon, par M. le Comte de Lacépède, Manière d'étudier . . . l'histoire naturelle, Histoire et théorie de la terre (part); II, Histoire . . . de la terre (concluded), Minéraux (part); III-VIII, Minéraux (concluded); IX, Animaux; X, Homme; XI-XVII, Quadrupèdes; XVIII-XXV, Oiseaux (and other matters, as described above); XXVI, Supplément (above). Not present in the Ellis set are five volumes by Lacépède forming a "suite" to the work and dealing with "Quadrupèdes, ovipares, Serpents, Poissons et Cétacées."

BMNH, I:282; Engelmann, 151; Zimmer, 109-110 (earlier edit.). Note also references cited in text above.

- 416.** ca. 1838. Keepsake / d'histoire naturelle. / Description des oiseaux / suivi d'un exposé / de l'art de les préparer et de les conserver. / Classification de Cuvier—Texte de Buffon / revu, réduit et précédé d'une introduction / par M. Achille Comte, / Professeur d'Histoire Naturelle [*Esc.*, 3 lines]; / Ouvrage illustré par 150 Dessins / de / Victor Adam. / Paris, / Bazouge-Pigoreau, Éditeur, / Quai des Augustins, 17 bis. / Londres, Robert Tyas, Libraire, 50, Cheapside.

8vo (25.5 × 16.3 cm). Pp. [4], i-xxiii [xiv], 1-312; engr. portr., engr. col. front., engr. title, engr. col. plates 1-38.

*Contents*—Half-title; title; introd. (signed Achille Comte); text, pp. 1-303, much condensed from Buffon's *Histoire naturelle*, etc. (*cf.* No. 411); "table des matières," pp. 305-306; "table alphabétique" and synopsis of classification, pp. 307-312. No scientific names below the family level are used.

A small, popular condensation of Buffon's ornithological writings. It has escaped notice by most bibliographers. An English translation appeared in 1841 (No. 422) and is listed by Wood, but the work in its present form is not dated exactly in any source examined except Nissen, who supplies date of 1838. The Ellis copy is from the John E. Thayer collection with bookplate (pagination mistakenly given as 512 in *Cat. Thayer Coll.*).

Agassiz, II:99; Nissen, 202; Ronsil, 110.

417. 1798. **Natural history / of / birds, fish, / insects, and reptiles. / Embellished with / upwards of two hundred engravings. / In five volumes. / Vol. I[-V]. / London: / Printed for the proprietor, / and sold by H. D. Symonds, Paternoster-Row. / 1798.**

5 vols., 12mo (17 × 10.5 cm).

Vol. I: pp. i-vii [viii], 1-332; 36 figs. on 13 engr. plates.

Vol. II: pp. i-vii [viii], 1-332; 28 figs. on 8 engr. plates.

Vol. III: pp. i-ix [x], 1-320; 21 figs. on 9 engr. plates.

Vol. IV: pp. i-viii, 1-322; 36 figs. on 8 engr. plates.

Vol. V: pp. i-viii, 1-386 [387-388]; 59 figs. on 6 engr. plates.

*Contents*—All vols. contain title and conts., followed in vols. I-III by directions for placement of plates (neither placement nor number of plates agreeing with what is present—28 figs. on 8 plates in vol. II instead of 36 on 10). The directions for placing the plates do not occur in vol. IV and are found at the end of the text in vol. V. Vols. I-II and pp. 1-254 of vol. III deal with birds, the remainder of vol. III with fish, vol. IV with fish and invertebrates, and vol. V with miscellaneous further invertebrates, reptiles, and insects. The text is much abridged. The small and poorly executed plates bear two or more figures apiece in most cases, with some of the separate figures numbered in the earlier volumes.

One of many translations and abridgments of Buffon (for discussion of whose work see No. 411). This set appears to be related to a ten-volume set of "Barr's Buffon," with which it is uniformly bound and the text of which is continuous with this text. The ten-volume set is dated 1797 and has titles with similar wording but with "Barr's Buffon" at head of title. A connection is further suggested by similarities of imprint, style of illustration, and general physical appearance. For a later edition of this abridged translation, see No. 418.

418. 1808-16. **Natural history / of / birds, fish, / insects, and reptiles. / Embellished with / upwards of two hundred engravings. / In six volumes. / Vol. I. / London: / printed for the proprietor, / and sold by H. D. Symonds, Paternoster-Row. / 1808. / Knight and Compton, Printers, Cloth Fair.**

Titles of remaining vols. are as follows:

[*Idem*, 7 lines.] / Vol. II. / [*Idem*, 2 lines.] / and sold by / Sherwood, Neely, and Jones, Paternoster-Row; / By Low and Gilbert, St. John's Square, Clerkenwell. / 1813.

[*Idem*, 7 lines.]<sup>1</sup> / Vol. III. / [*Idem*, 1 line.] / printed for the proprietor; / and sold by Sherwood, Neely, and Jones, / Paternoster-Row; / By R. and R. Gilbert, St. John's-Square, Clerkenwell. / 1816.

[*Idem*, 7 lines.]<sup>1</sup> / Vol. IV. / [*Six lines, same as vol. III.*].

[*Idem*, 7 lines.]<sup>1</sup> / Vol. V. / [*Six lines, same as vol. III.*].

[*Idem*, 7 lines.] / Vol. VI. / Or, supplementary volume; / containing a description of rare and curious birds, discovered since the death of Buffon, selected and arranged by Son- / nini and J. J. Virey, and translated from the last edition / of

<sup>1</sup> Except comma lacking after the word "insects."

Buffon. / London: / printed for the proprietor, / and sold by H. D. Symonds, Paternoster-Row. / 1808.

6 vols., 8vo (19.5 × 11.8 cm).

Vol. I: pp. i-vii [viii], 1-332; 13 engr. col. plates (ornith.).

Vol. II: pp. i-vii [viii], 1-332; 8 engr. col. plates (ornith.; 10 are called for).

Vol. III: pp. i-viii, 1-320; 9 engr. col. plates (8 ornith.).

Vol. IV: pp. i-viii, 1-323; 8 engr. col. plates.

Vol. V: pp. i-vii [viii], 1-386; 6 engr. col. plates.

Vol. VI: pp. i-xii, 1-332; 6 engr. col. plates (ornith.).

*Contents*—All vols. contain title and conts., followed in vols. I and II by directions for placement of plates (not closely followed in present set). Vol. VI contains a pref., pp. iii-iv (dated at London, June 16, 1808). Vols. I-II and pp. 1-254 of vol. III deal with birds, with fish treated in the remaining pp. of vol. III, fish and invertebrates in vol. IV, miscellaneous further invertebrates, reptiles, and insects in vol. V, and birds not dealt with by Buffon in vol. VI. The plates bear 2 or more figs. in most cases, these being partially numb. in earlier vols. They are small and poorly executed for the most part, those in vol. VI being marked "Published by H. D. Symonds, June 1, 1808."

Another edition of No. 417, reset with very minor alterations in wording, with the addition of a supplementary volume. The plates are the same in number, placement and content as those of No. 417. The dating of the various volumes suggests that this may be a set made up of volumes from various issues. It appears also to be related to a ten-volume set (dated 1810) of the so-called "Barr's Buffon," with which it is uniformly bound and the text of which is continuous with the present. Relationship is further suggested by the fact that "Barr's Buffon" is sometimes listed as consisting of 16 volumes (*cf.* ZSL, 92) and by similarities in the imprints and other particulars of the two.

419. 1817. A / **natural history, / general and particular;** / containing the history and theory of the earth, / a general history of man, / the brute creation, vegetables, minerals, &c. &c. / By George Louis le Clerc, Count of Buffon. / Translated from the French / by William Smellie, / member of the Antiquarian and Royal societies of Edinburgh. / A new edition corrected and enlarged. / To which is added / a history / of / birds, fishes, reptiles, and insects, / embracing the / recent discoveries of eminent naturalists; / together with an / account of the most curious foreign plants. / By Henry Augustus Chambers, Ll. D. / Vol. I [-II]. / London: / published by Richard Evans, 17, Paternoster-Row; and John Bourne, / 17, Green-Side-Street, Edinburgh. / 1817.

2 vols., 4to (26.8 × 21.3 cm).

Vol. I: pp. i-viii, 1-682; front. (portr. of Buffon), 24 engr. col. plates.

Vol. II: pp. i-viii, 1-462; front. (same as that in vol. I), 27 engr. col. plates (pl. 32 misbound in vol. I; 11 ornith.).

*Contents*—Vol. I: title, index; instructions for placement of plates; ded. to Buffon (signed by Smellie, dated at Edinburgh, May 10, 1781); life of Buffon, pp. 2-4; text, including history of the earth, etc., nature of man, and mammals (part).

Vol. II: title; index; directions for placement of plates; text, treating mammals (part), birds (pp. 186-283), reptiles, fishes, invertebrates, and botany (by Chambers). Additions to Buffon's text from other authors are frequent, being enclosed in square brackets.

The first edition of Smellie's translation of Buffon appeared in 1781, followed by numerous editions, of which this is a late example (see BMNH, I:282; Wood, 268).

420. 1831. **Buffon's / natural history / of / The Globe, and of Man; / beasts, birds, fishes, reptiles, and insects. / Corrected and enlarged / By John Wright, M.Z.S. / [Engr., different in each vol.] / W. Harvey, del. J. Thompson, sc. / London: / printed for Thomas Tegg, 73, Cheapside: / J. Cumming, Dublin; / and R. Griffin and Co. Glasgow. / 1831.**

4 vols., 12mo (17.5 × 10.5 cm).

Vol. I: pp. i-vi, 1-448; 66 wood-engr. text-figs.

Vol. II: pp. [4], 1-396; 101 wood-engr. text-figs.

Vol. III: pp. [4], 1-509 [510]; 186 wood-engr. text-figs. (125 ornith.).

Vol. IV: pp. [4], 1-500; 66 wood-engr. text-figs.

*Contents*—All vols. contain an elaborate half-title, and a title. Vol. I contains an "advertisement" (pp. v-vi). The text of the 4 vols. is divided into parts, part I (physical features of the earth, nature, man, mammals) occupying vols. I and II, and part II (birds, fishes, various invertebrates) vols. III and IV. An index to the whole occupies pp. 487-500 of vol. IV. Birds are treated in chapters I-VI, pp. 1-362, vol. III, with general description and natural history of many species, based primarily on Buffon but drawing from numerous other authors as well. The many figs. are nearly all by William Harvey and are generally well done, those of birds leaning rather heavily on Thomas Bewick, of whom Harvey was a pupil.

A popularly written little natural history, doubtless useful in its day to beginners in the field. An American edition is also dated 1831 (No. 421).

421. 1831. **A / natural history / of / the globe, of man, of beasts, birds, / fishes, reptiles, insects and plants. / From / the writings of Buffon, Cuvier, Lacepede, / and other eminent naturalists. / Edited by John Wright, / Member of the Zoological Society of London. / A new edition, / with improvements from Geoffrey, Griffith, Richard- / son, Lewis and Clark, Long, Wilson, and others. / With five hundred engravings. / In five volumes. / Vol. I [-V]. / New York: / Collins and Hannay. / Boston: Gray and Bowen. / 1831.**

5 vols., 12mo (15.3 × 9.4 cm).

Vol. I: [2] i-vii [viii], 1-422: 59 engr. text-figs.

Vol. II: [2] i-vi, 1-569; 160 engr. text-figs.

Vol. III: [2] i-vi, 1-506; 161 engr. text-figs. (ornith.).

Vol. IV: [2] i-vi, 1-336; 118 engr. text-figs. (20 ornith.).

Vol. V: [2] i-iv, 1-336; 40 engr. text-figs. P. iv mis-numbered v.

*Contents*—All vols. contain added title-page (A natural history / of the globe, of man, of beasts, birds, fishes, / reptiles, insects and plants. / From the writings

of Buffon, Cuvier and other / eminent naturalists. / [*Engr., different in each vol.*] / A new edition, / with modern improvements, and five hundred / engravings. / Boston: / Gray and Bowen. / New York: / Collins and Hannay. / MDCCCXXXI.), title, and conts. Vol. I contains an "Advertisement." The text is divided into two parts, of which the first (physical features of earth, nature, man, mammals, etc.) occupies vols. I-II, and the second (birds, fishes, reptiles, invertebrates, etc.) vols. III-V. All of vol. III and pp. 1-64 of vol. IV are devoted to birds. An index to the whole work occurs on pp. 371-392 of vol. V, with an errata list also on p. 392.

An American edition of a small, popular text based partly on Buffon but supplemented by various materials from other sources. Although differently titled, it is identical in much of the text with an English edition (No. 420) of the same year and editor. The present, however, incorporates numerous additions, particularly in reference to American birds and mammals. The figures are copied from the English edition and other sources, especially Wilson's *American ornithology*. Not listed in bibliographies consulted.

422. 1841. *The / book of birds: / edited and abridged / from the text of Buffon. / By / M. Achille Comte, / Professor of Natural history in the Academy of Paris [Etc., 3 lines]. / Illustrated by One Hundred and Fifty Designs, / by Victor Adam. / Translated from the original / By Benjamin Clarke, / author of the "Zoological gardens," etc. etc. / London: / R. Tyas, 8, Paternoster Row. / 1841.*

8vo (24.6 × 16.7 cm). Pp. i-xxxiii [xxxiv], 1-292; 38 lith. col. plates, numb. (outside present context and not in order) 93, 95-97, 99-104, 106-110, 117, 118, 122, 130-133, 136-139, 141-143, 147, 149-156, 159.

*Contents*—Half-title; title; translator's pref.; editor's introd., pp. ix-xxxiii (introductory remarks and discussion of the attributes of birds); text, pp. 1-290, with rambling accounts of many kinds of birds (no scientific nomenclature is used), being a further condensation of Comte's condensation (No. 416) of Buffon's ornithological text of the *Histoire naturelle* (No. 411); "Préparation et conservation des oiseaux," pp. 291-303; "table des matières," and "table alphabétique," pp. 305-312. The plates are the same as those in the original French edition by Comte, but differently numbered.

A popular condensation of Buffon's ornithology, translated from Comte's French version (No. 416). Another copy at hand, likewise dated 1841, differs in having two preliminary leaves (engraved title and contents) and the plates numbered 1-38 with added legends. It agrees with two copies described by Zimmer.

Wood, 268; Zimmer, 113-114.

423. 1813. *Pezzi scelti / di / Buffon / o / raccolti / di quanto i suoi scritti hanno di / pin perfetto. / Prima traduzione Italiana con figure. / [Monogram] / Pisa / Presso Sebastiano Nistri / MDCCCXIII.*

12mo (13.2 × 8.5 cm). Pp. [4], 1-356; 53 engr. text-figs. (18 ornith.).

*Contents*—Half-title; title; publisher's preface, pp. 1-2; text, in Italian, being a popularly-written condensation of Buffon's natural history (see No. 411), much

abridged, (birds, pp. 275-342); conts., pp. 353-356. The small, poorly executed figs. appear to be based in part on Bewick (see No. 263, etc.).

A translation not listed in standard zoological bibliographies consulted. If taken to refer to Buffon's work at large, the claim of the title that this is the "prima traduzione Italiana con figure" is unfounded, in view of the appearance at Milan, 1774-77, of the *Storia naturale degli Ucelli* in six volumes with 87 plates (Engelmann, 404).

BUHLE, CHRISTIAN ADAM ADOLPH (1773-1856)

424. 1842-45. *Naturgeschichte / der / domesticirten Vögel / in ökonomischer und technischer Hinsicht. / Ein Hand- und Hülfsbuch für Jedermann / besonders / für Stadt- und Landwirthe. / Von Dr. Chr. Adolph Buhle, / Inspector des königl. zoologischen Museums der Universität Halle [Etc., 4 lines]. / Enthält: / 1. Der gemeine Schwan und seine Verwandten. / 2. Die gemeine Gans und Ente nebst ihren / Verwandten. / 3. Der gemeine Pfau, das Truthuhn und Perl- / huhn &c. / 4. Das Haushuhn &c. / 5. Die Tauben. / 6. Die Stubenvögel. / Mit 6 colorirten Tafeln nach Zeichnung von Prof. Fr. Naumann. / Halle, / Druck und Verlag von Ed. Heynemann. / 1845.*

Six unnumb. pts. in 1 vol., 8vo (21.0 × 13.2 cm). Pp. [2]; 1-56; 1-67 [68]; 1-70; 3-67 [68]; iii-vi, 1-105 [106]; iv-vi, [2], 1-135 [136]; 6 engr. col. plates (1 per pt.) by J. F. Naumann.

*Contents*—General title-page and 6 unnumb. pts. paged as noted above, each with its own title. Although these pts. were published separately (and are often found as separates), it is clear from the general title and other evidence that the author regarded the whole as one work. Besides brief "Vorworten" in various pts., the work in its first pt. contains a detailed consideration of birds (pp. 5-28) under the heading "Einleitung." Another *Einleitung*, in the second pt. (pp. 3-4) deals with the geese, and the last pt. contains a lengthy *Einleitung* on the "Stubenvögel" (birds of some use in captivity, as songbirds, falcons, etc.). The text provides a thorough treatment of domestic and captive birds of the kinds indicated in the separate part titles (as listed on general title), with descriptions, and emphasis on husbandry, diseases, and related matters.

BMNH, I:283 (1 pt. only); Wood, 269.

BUICK, THOMAS LINDSAY (1866-1938)

425. 1931. *The mystery of / the moa / New Zealand's Avian Giant / By / T. Lindsay Buick / F. R. Hist. S. / Author of [Etc., 5 lines]. / Published under the auspices of / The Board of Maori Ethnological Research / Illustrated / New Plymouth, N. Z. / Thomas Avery & Sons Limited / 1931.*

8vo (20.3 × 13.1 cm). Pp. i-xvi, 1-357 [358]; photogr. front., 25 photogr. plates, 1 map, 7 text-figs. (2 maps).

*Contents*—Half-title; title; ded.; pref., pp. vii-x; acknowledgment; conts.; list of illustrs.; text, pp. 1-307, in chapters I-V; appendix I (notes to the text), pp. 308-345; appendix II (bibl.), pp. 346-351; index, pp. 352-357; printer's imprint, p. [358].

A readable, interesting, and scholarly work containing a summary of the history, legends, discovery, and other lore of the huge, extinct moas (*Dinornithiformes*) of New Zealand. A short account of the various species is given, but the approach is primarily historical.

Reviewed: *Ibis*, 1932:362-363; *Auk*, 1932:252 (Witmer Stone).

BULL, HENRY GRAVES (1828-1885)

426. 1888. Notes / on the / birds of Herefordshire. / Contributed by members of the Woolhope Club. / Collected and arranged by / the late / Henry Graves Bull, M.D., etc., / Editor of the "Herefordshire Pomona," "The Apple and Pear as / Vintage Fruits," etc. / (1884-5.) / [*Seal*] / London: Hamilton, Adams & Co. / Hereford: Jakeman & Carver. / 1888.

8vo (21.2 × 13.8 cm). Pp. iii-xxx, [2], 1-274 [275-276]; fotogr. front. (portr.).

*Contents*—Title, p. iii (no evidence of half-title); ded.; poem; pref.; introd., pp. xi-xvii, conts.; errata; text, pp. 1-253, discussing birds of the county in systematic order, in varying detail, with mention of interesting records and a good deal of trivial comment; appendix (Local names of Birds in Herefordshire), pp. 255-258; indices of Latin and English names, pp. 259-274; printer's imprint, p. 276.

A popularly written faunal work containing some basic information.

Mullens and Swann, 106; Wood, 269.

BULLER, WALTER LAWRY (1838-1906)

427. 1872-73. A history / of the / birds of New Zealand. / By / Walter Lawry Buller, Sc. D. / (Resident Magistrate of Wanganui, N. Z.), / Fellow of the Linnean Society [*Etc.*, 4 lines]. / London: / John Van Voorst, 1 Paternoster Row. / 1873.

4to (31.5 × 24.8 cm). Pp. i-xxiii, 1-384 [385-390]; lith. front. (by G. H. Ford), 35 lith. col. plates (by J. G. Keulemans).

*Contents*—Title, p. i; prospectus, pp. iii-iv; lists of subscribers, pp. v-x; pref., pp. xi-xii; introd., pp. xiii-xxiii; text, pp. 1-384, with scientific name, synonymy, native name, descriptions, and account of habits and characteristics for each of 145 species; extracts from reviews, 2 leaves; notice, 1 leaf.

The first edition of a major and valuable faunal work. According to Zimmer, it was limited to 500 copies and was published in five parts, the dates and extent of which he gives, as determined from *The Zoological Record* and further quoted by Mathews (*Birds of Australia*, VII:447). The details in respect to text pages are as follows: (pt. 1), pp. 1-72, March 1872; (pt. 2), pp. 73-148, June 1872; (pts. 3-4), pp. 149-288, Dec. 1872; (pt. 5), pp. 289-384 + pref. and introd., April 1873. The Ellis copy, in a contemporary binding of blue buckram with a gold figure of *Notornis*, has the bookplate of Thomas Somers Cocks. A second edition appeared in 1887-88 (No. 428) and a supplement thereto in 1905-06 (No. 434).

Nissen, 163; Wood, 269; Zimmer, 114-115. Noticed: *Ibis*, 1873:92-93.

428. 1887-88. *A history / of the / birds of New Zealand.* / By / Sir Walter Lawry Buller, K.C.M.G., D. Sc., F.R.S. / F.L.S. [*Etc.*, 8 lines]. / **Second edition.** / Volume I [II]. / London: / Published (for the subscribers) by / the author, / 8 Victoria Chambers, Victoria Street, Westminster, S.W. / 1888.

2 vols., 4to (37.2 × 28.0 cm).

Vol. I: pp. i-lxxxiv, 1-250, [6]; lith. col. plates I-XXIV (by J. G. Keulemans), 83 text-figs.

Vol. II: pp. i-xv [xvi], 1-359; lith. plates XXV-L (24 col., by J. G. Keulemans; 2 uncol., by P. J. Smit).<sup>1</sup>

*Contents*—Vol. I: title, p. i; ded., p. iii; original prospectus, pp. v-vi; pref. to first edit., pp. vii-viii; notice of new edit., pp. ix-x; pref., p. xi (signed W. L. B., dated March 1888); text, pp. 1-250; extracts from reviews, 3 leaves. Vol. II: title, p. i; conts. of both vols., pp. iii-vi; list of subscribers, pp. vii-xv; text, pp. 1-332; supplementary notes, pp. 333-340; index to both vols., pp. 341-359. The text gives names, synonymies, detailed descriptions, and elaborate accounts of the habits and distribution of New Zealand birds.

The second edition, much enlarged (first edit., 1872-73; No. 427), limited to 1,000 copies, and a beautifully made and very complete work on New Zealand birds.

Zimmer's authority for the dating and collation of the 13 parts in which the work was published was Mathews (*Birds of Australia*, VII:447), who stated that his collation might need a little alteration. This is borne out by copy in hand, in original parts and wrappers, which differs in several particulars from Mathews' reconstruction. Collation herewith: pt. 1, pp. 1-32, 4 plates, July 1887; pt. 2, pp. 33-72, 4 plates, Oct. 1887; pt. 3, pp. 73-120, 4 plates, Jan. 1888; pts. 4-6, pp. 121-236, 12 plates, March 1888; pt. 7, pp. 237-250 and i-lxxxiv, 3 leaves (reviews), May 1888 (end of vol. I). Pts. 8-9, pp. 1-96 (not 104), 9 plates, Aug. 1888; pts. 10-11, pp. 97-240, 7 plates, Nov. 1888; pts. 12-13, pp. 241-359 and i-xv, 10 plates, Dec. 1888. Also present, with pts. 8 and 9, are 2 leaves (g2 and g3, pp. li-liv) to replace the corresponding leaves in the introduction, as found in pt. 7, these being cancelled "on account of an omission in the footnote on p. li."

The plates of the present work are especially fine, being among the best of Keuleman's published work and entirely different from those of the first edition. Copy bound in contemporary green cloth stamped with gold figures of *Notornis*.

Anker, 85; Wood, 269; Zimmer, 115-116. Reviewed: *Ibis*, 1888:133, 362-363; 1889:243-244.

429. 1878-79. [*Miscellaneous contributions to the ornithology of New Zealand; from the Transactions of the New Zealand Institute, vols. X and XI, Wellington, 1878-1879.*]

(22.7 × 14.4 cm). Pp. 191-212, 361-376; 1 lith. plate (pl. V, vol. X), 2 text-figs.

*Contents*—Vol. X (1878), articles XIX-XXIII: "Notes on the Ornithology of New Zealand" (pp. 191-201); "Further Notes on the Ornithology of New Zealand" (pp. 201-209); "On the Disappearance of the Korimako (*Anthornis melanura*) from the North Island" (pp. 209-211); "Further descriptive Notes of the Huia

<sup>1</sup> Zimmer gives plates I-XLIX, his copy evidently lacking the second of 2 uncol. plates here present. Wood gives 36 plates, perhaps by a printer's error.

(*Heteralocha acutirostris*.)" (p. 211); "On the Eggs of the Huia . . ." (p. 212). Vol. XI (1879), articles XLVIII-XLIX: "Additions to List of Species, and Notices of Rare Occurrences, since the publication of 'The Birds of New Zealand'" (pp. 361-366); "Further Contributions to the Ornithology of New Zealand" (pp. 366-376).

A specially bound volume comprising parts of the journal cited above, being a long series of ornithological notes by Buller. The articles were read before the Wellington Philosophical Society, September 22, 1877, to September 9, 1878, which may account for the dating "1877" in the Catalogue of John E. Thayer's library (Thayer, 34) whence this copy comes (bookplate). Dates here given are from *The Zoological Record* for 1878 and 1879.

430. 1882. Colonial Museum and Geological Survey Department. / James Hector, C.M.G., M.D., F.R.S., / Director. / **Manual / of the / birds of New Zealand.** / By / Walter L. Buller, C.M.G., Sc. D., F.R.S., / Author of "A history of the birds of New Zealand." / Published by command. / New Zealand: / by authority: George Didsbury, Government Printer, Wellington. / 1882.

8vo (23.7 × 15.0 cm). Pp.i-xii, 1-107 [108], i-iii; front. (by Buller), photolith. plates I-III, V-XXXVII, Ia, XIVa, XXIa (pl. IV not published; 40 plates in all, 36 by Keulemans, 4 "copied from other sources"), 24 text-cuts.

*Contents*—Title; conts.; list of illustrs.; pref. (by James Hector, dated at Wellington, 2 Jan. 1882); introd., pp. vii-ix; analytical key to families, pp. xi-xii; text, pp. 1-102, giving scientific and common names, brief description, range, and notes on habits for each species; generic index p. 103; index to English and Maori names, pp. 105-107; p. [108] announcing a forthcoming edit. of *A history of the birds of New Zealand*; terminal advt., pp. i-iii (in one copy at hand; lists publications of Colonial Museum, etc.).

A descriptive list of New Zealand birds. According to the preface, the descriptions and classification were taken from F. W. Hutton's *Catalogue of the birds of New Zealand*, published in 1871, while the notes on life histories were taken from the first edition of Buller's *A history of the birds of New Zealand* (No. 427), the plates of which form the basis for the photolithographs in the present volume. A copy in contemporary binding has the inscription of Arthur W. Young, dated December 1882.

Wood, 269; Zimmer, 115.

431. 1888. **A classified list / of / Mr. S. William Silver's collection / of / New-Zealand birds / (at the Manor-House, Letcomb Regis), / with short descriptive notes / by / Sir Walter L. Buller, K.C.M.G., / D. Sc., F.R.S. / London: / E. A. Petherick and Co., 33 Paternoster Row. / 1888.**

8vo (24.2 × 15.6 cm). Pp. 1-96; 42 engr. text-figs. (6 full-page).

*Contents*—Half-title; title; pref. (dated May 1888); 4 full-page figs; text, pp. 15-56; figs., pp. 57-71 (printed on r. only; v. of leaves blank but included in pagination); "reference list," giving the numbers of the cases in the exhibit and their

contents, pp. 73-86; "Frame of moa feathers," pp. 87-89, being comments on moa feathers forming part of the exhibit; index, pp. 91-96.

A handsome guidebook, said to be rare, providing a classified list of the New Zealand birds, many of them very rare, contained in the 12 cases forming the Manor-House Collection, with short explanatory notes for the information of visitors. A new name (*Ocydromus assimilis*) appears on p. 44, this later placed in the synonymy of *O. earli* Gray (see Zimmer; see also Buller, *History of the birds of New Zealand*, second edit., II:115, Nov. 1888). The collection involved was part of the New Zealand display in the Colonial and Indian Exhibition of 1886 and won an award there. Most of the cuts are from the author's *A history of the birds of New Zealand*, 1887-88 (No. 428).

Wood, 269; Zimmer, 116.

432. 1891-98. [*Various ornithological papers*. London and Wellington, N.Z.]

8vo (trimmed to 20.8 × 13.2 cm).

A handsomely bound collection of separates of ornithological papers published in *The Ibis*, *Transactions of the New Zealand Institute*, and *Proceedings of the Zoological Society of London*. It was evidently assembled by the author as it bears on a binder's leaf the words: "Lady Rampurly / from the author / March 1901."

433. 1905-06. Supplement / to the / 'Birds of New Zealand.' / By / Sir Walter Lawry Buller, K.C.M.G., / F.R.S. F.L.S. C.M.Z.S., / Hon. Sc.D. (Cambridge, and Tübingen); / [*Etc.*, 8 lines]. / Volume I [II]. / London: / published (for the subscribers) by / the author, / 62, London Wall, E.C. / 1905.

2 vols., 4to (37.3 × 28.5 cm).

Vol. I: pp. i-l, 1-200; engr. front. (portr.), lith. col. plates I-V (by J. G. Keulemans), 34 text-figs. (more or less, depending on method of counting; half-tones, line-cuts, etc.).

Vol. II: pp. [4] 1-178 [179-180]; lith. col. plates VI-XII (by Keulemans), 14 text-figs. (half-tones, line-cuts, etc.).

*Contents*—Vol. I: title, p. i; ded., p. iii; list of illustrs., pp. v-vi; pref., p. vii (dated March 1905, at London); introd., pp. ix-l (dealing with miscellaneous matters pertaining to New Zealand birds); text, pp. 1-200. Vol. II: title and list of illustrations., 2 leaves; text, pp. 1-167; index to both vols., pp. 169-178; printer's imprint. p. [179].

A supplement to the second edition of the author's *A history of New Zealand birds*, 1887-88 (No. 428), bringing the ornithology of New Zealand up to date from the time of that work. According to Mathews' *Birds of Australia*, VII: 447, 1919, the first volume was received at the British Museum on August 5, 1905, the second on October 27, 1906. *The Ibis* for July 1906 noted that the second volume was "nearly ready for issue." The colored plates depict species not figured in the second edition. Set bound in contemporary cloth, stamped in gold with figure of a kiwi.

Nissen, 163; Wood, 269. Reviewed: *Ibis*, 1906:582-583.

BULLOCK, WILLIAM (*fl.* 1808-1828)

434. 1817. A / concise and easy method / of / preserving subjects / of / Natural History, / intended for the use of / sportsmen, travellers, / &c. &c. / To enable them to collect and prepare such / Curious and Rare Articles / As they may wish to preserve, or to transmit in safety to / any part of the world. / By William Bullock, / Fellow of the Linnean Society of London [*Exc.*, 4 lines]. / London: / printed for the proprietor; / and may be had of the booksellers, and at the / London Museum, Piccadilly. / 1817.

(15.2 × 9.5 cm). Pp. i-iv 5-36; engr. front., 1 engr. plate (not ornith.).

*Contents*—Title; "address"; text, divided into sections on the preparation of various forms of life. Birds are treated on pp. 1-11 (skinning) and 26-30 (mounting). Pp. 31-36 are devoted to a description of the "London Museum, Egyptian Hall, Piccadilly" (birds, p. 32).

A curious and interesting little book showing the methods of the times in taxidermy. A second edition appeared in 1818.

Mullens and Swann, 107-110 (hist., biogr.); Wood, 272.

435. 1824. Six months' / residence and travels / in / Mexico; / containing / remarks / on the / present state of New Spain, / its natural productions, state of society, / manufactures, trade, agriculture, and / antiquities, &c. / With / plates and maps. / By W. Bullock, F.L.S. / Proprietor of the late London Museum. / London: / John Murray, Albemarle-Street. / 1824.

8vo (23.0 × 14.0 cm, untrimmed). Pp. i-xii, 1-532, [10]; engr. fold. front., 15 engr. plates (4 col.; none ornith.), 1 text-cut, 2 fold. maps, fold. table.

*Contents*—Half-title; title; pref., pp. v-vii (signed W.B.); conts.; text, pp. 1-523, in chapters I-XXXIII; index, pp. 525-530; list of plates, pp. 531-532; advt., 5 leaves. The text describes in some detail those features of Mexico listed in the title, as observed by the author in a trip from Veracruz to Mexico City and return, March 2-approximately August 31, 1823. Besides frequent casual reference to birds, mammals, and other animals, throughout, chapter XXI (pp. 262-276) is devoted entirely to a popular account of hummingbirds, based mainly on observation of captive specimens. Also of interest are observations (pp. 502-504) bearing on the subject of bird migration across the Gulf of Mexico, which has received much attention in recent years. The rather handsome plates of landscapes, archaeological subjects, etc., were engraved by L. Clark from drawings by the author.

A popular description of travel, the natural history of which is neither detailed nor extensive, but which may be of some historical value to interested faunists. Bullock's present work seems to have escaped notice in zoological bibliographies, although, as Carus and Engelmann (II:1169) note, the birds he collected were discussed separately by William Swainson ("A Synopsis of the Birds discovered in Mexico by W. Bullock, F.L.S. and H.S., and Mr. William Bullock, jun.," in *Philosophical Magazine*, ser. II, vol. I (1827), no. 5, pp. 364-369, and no. 6, pp. 433-442), who named Bullock's Oriole (*Icterus bullockii*) in the author's honor. According to a note in the advertisement of the work, an appendix dealing with the zoolog.

of the trip was to have been published "speedily . . . in 8vo with 6 Plates" under Swainson's name and the title "The Zoology of Mexico." I can find no record of the appearance of such a work.

BUNGE, ALEXANDER VON (1851- )

436. 1886. *Berichte / über die / von der Kaiserlichen Akademie der Wissenschaften ausgerüstete / Expedition / nach den neusibirischen Inseln und dem Jana-Lande, / von den Reisenden / Dr. Alex. Bunge und Baron Ed. Toll. / St. Petersburg, 1886. / Buchdruckerei der Kaiserlichen Academie der Wissenschaften. / Wass. Ostr., 9 Lin., No. 12.*

8vo (23.3 × 15.6 cm). Pp. 1-120; fold. map.

*Contents*—Title (dated September 1886 on v.); introd., etc., pp. 3-6 (by L. von Schrenck; dated May 1886); text, in sections numb. 1-5, the second (pp. 11-82) by Bunge and dealing with vertebrate zoology. Mammals and birds observed by the expedition are discussed in briefly annotated lists (96 species of birds; pp. 42-57), followed by a chronologically arranged series of notes on birds in the Lena Delta, April 11-September 16, 1884 (pp. 57-77). Wrappers, with title and "Inhalt," bound in at end.

An interesting paper on a little-known area. In its present form the work constitutes an independent title and is paged differently from the corresponding portion of the complete report published the following year, under the editorship of Schrenck, in the "Beiträgen [*sic*] zur Kenntniss des Russischen Reiches und der angrenzenden Länder Asiens, dritte Folge, III, pp. I-VI, 1-412." In this, according to *The Zoological Record* (Aves, p. 29, for 1887, and *ibid.*, for 1886, p. 8), whence the foregoing citation is taken, the two accounts of birds listed above occupy pp. 104-119 and 119-139, respectively. Autographed presentation copy from Schrenck to C. Hart Merriam.

BURMEISTER, CARL HERMANN CONRAD (1807-1892)

437. 1861. *Reise / durch einige / nördliche Provinzen / der / La Plata-Staaten. / Von / H. Burmeister. / (Besonderer Abdruck aus der Zeitschrift für allg. Erdkunde, Neue Folge, Bd. IX. / Berlin, Verlag von Dietrich Reimer.) / Berlin. / Gedruckt bei A. W. Schade, Grünstrasse 18. / 1861.*

8vo (21.9 × 13.7 cm). Pp. [2] 1-157; fold. map.

*Contents*—Title; text, pp. 1-157, being excerpts from Burmeister's diary of a trip through the northern provinces of La Plata in Argentine and Chile, June 13, 1859 to April 3, 1860, with frequent, often fairly extensive reference to birds, mammals, etc.

In the present form an independent, separately titled, and probably repaged work, extracted from the journal noted in title. Differently worded and with some changes in content, essentially the same material occurs in the author's larger work, *Reise durch die La Plata-Staaten*, vol. II, pp. 42-309, also published in 1861 (No. 438).

438. 1861. *Reise / durch die / La Plata-Staaten, / mit besonderer Rücksichte / auf die physische Beschaffenheit und den Culturzustand / der / Argentinischen Republik. / Ausgeführt / in den Jahren 1857, 1858, 1859 und 1860 / von / Dr. Hermann Burmeister, / o. ö. Prof. der Zoologie und Director des zool. Museums / der Universität Halle. / Erster Band. / Die südlichen Provinzen umfassend. / Mit einer Charte und einen Titel-Bilde. / Halle, / Druck und Verlag von H. W. Schmidt. / 1861.*

Title of second vol. as follows:

[*Idem, 10 lines*] / Dr. Hermann Burmeister. / Zweiter Band. / Die nordwestlichen Provinzen und die Cordilleren zwischen / Catamarca und Copiapó umfassend. / Nebst einer systematischen Uebersicht der beobachteten Rückgraththiere. / Mit einer Charte der bereisten Gegenden. / Halle, / [*Idem, 2 lines*].

2 vols., 8vo (22.5 × 14.7 cm, untrimmed).

Vol. I: pp. i-vi, 1-503 [504]; front., fold. map.

Vol. II: pp. i-iv [v-vi], 1-538 [539-540]; fold map.

*Contents*—Each vol. contains title, “Vorrede” (signed H. Burmeister at Halle, dated respectively 4 February and 10 July, 1861), “Inhalt” and “Anhang” (pp. 498-503 and 389-538, respectively). Vol. I contains chapters I-XX, pp. 1-495, of the text and vol. II chapters XXI-XXXIV, pp. 1-388. One unnumb. p. (Druckfehler) occurs at the end of vol. I and two (Druckfehler, Nachträge) at the end of vol. II. There is frequent reference to natural history, including birds, throughout the text, which is chiefly devoted to an account of the author’s travels in the places and years mentioned in title. Chapter XII is devoted to a discussion of the fauna in the region of Mendoza (birds, pp. 300-308) and chapter XX to that of Paraná (birds, pp. 478-480). The first of two sections of the extensive “Anhang” of vol. II consists of a “Systematische Uebersicht der Thiere des La Plata-Gebietes” (birds, pp. 432-521; name, synonymy, comment, status).

An interesting account of travel in Argentina and Chile. The ornithological portion of the second volume is an expanded version of Burmeister’s “Systematisches Verzeichniss der in den La Plata-Staaten beobachteten Vögelarten” (*Journal für Ornithologie*, 8:241-268, 1860; cf. Taschenberg, V:3774), in which several new species were described (review: *Ibis*, 1861:200-201). A slightly different version of that part of the journey described on pp. 42-309 of volume II was published separately in the same year (No. 437).

Coues, 2:277. Reviewed: *Ibis*, 1863:357-358.

#### BURNS, FRANKLIN LORENZO (1869-1946)

439. 1911. A / monograph / of the / Broad-winged Hawk / (*Buteo platypterus*) / By / Frank L. Burns / With the co-operation of over one hundred American / ornithologists, and the compilation of the / world’s literature. / Berwyn, Pennsylvania / 1911.

(22.7 × 15.0 cm). Pp. [2] 141-320; photogr. front., title photo., 9 photogr. plates.

*Contents*—Special title, 1 leaf; regular title of the journal (The / Wilson Bulle-

tin / nos. 76 and 77. / A quarterly journal of ornithology / Vol. XXIII September and December, 1911. Nos. 3 & 4 / Old Series vol. XXIII. New Series vol. XVIII. / [*Photo. of Broad-winged Hawk*] / Broad-winged Hawk / (Photo by Isaac E. Hess).), p. 141; pref., pp. 143-145; text, pp. 146-282; bibl., pp. 283-320. The text diagnoses the genus, the species considered, and its subspecies, giving synonymy, extended information on distribution (by states and provinces, pp. 171-197), and prolonged remarks on life history and related matters.

An early monographic study of a single species, still of some usefulness as a source of locality records from ornithologically little known areas, and for other information. The work comprises all of nos. 3 and 4 of *The Wilson Bulletin* for 1911 (vol. 23), issued together, with the special title shown above, and bound. The subspecies *Buteo platypterus cubanensis* is described on p. 148.

Reviewed: *Auk*, 1912:259-260 (Witmer Stone).

440. 1915. *A Bibliography of Scarce or Out of Print / North American Amateur and Trade Periodicals / Devoted More or Less to Ornithology / Compiled by Frank L. Burns / 1915. [Caption-title.]*

8vo (23.2 × 14.5 cm). Pp. 1-32.

*Contents*—Text, pp. 1-32, being a thorough and scholarly treatment of the subject.

A separate from *The Oologist*, (Albion, N.Y.), vol. 32, no. 7, July 15, 1915, Supplement (pp. 1-32), including the gray reprint wrappers. Still very useful.

Wood, 273.

BURTON, Sir RICHARD FRANCIS (1821-1890)

441. 1852. *Falconry / in the / valley of the Indus. / By / Richard F. Burton, / Lieut. Bombay Army. / Author of "Goa and the blue mountain," etc. / [Monogram] / London: / John Van Voorst, Paternoster Row. / M. DCCC. LII.*

12mo (19.0 × 13.0 cm, untrimmed). Pp. i-xii [xiii-xiv], 1-107 [108], [8]; lith. front. (by Joseph Wolf), 3 lith. plates (by McMullen).

*Contents*—Half-title; title; ded.; pref.; text, pp. 1-87, in chapters I-VIII, being pleasantly-written and informative observations of falconry as practiced by the natives of Sind; postscript, pp. 89-107, containing interesting side-lights on the author; advt., 4 leaves.

An interesting little book of no special importance. According to Harting, "For a writer having no practical knowledge of the subject . . . [it] is well written, and has a charming frontispiece by J. Wolf [of] a Goshawk seizing a gazelle."

Harting, 40; Schwerdt, I:90.

BUTLER, ALFRED JOSHUA (1850-1936)

442. 1930. *Sport in classic / times / By / A. J. Butler, D. Litt. / Fellow of Brasenose College, Oxford / Fellow of Eton College / London / Ernest Benn Limited.*

8vo (21.5 × 13.5 cm). Pp. i-xi [xii] 13-213; front., 20 half-tone plates, 11 text-cuts.

*Contents*—Half-title (ded. on v.); title (printer's imprint on v.; "First published in 1930"); pref.; conts.; list of illustrs.; list of classical authorities; text, in chapters I-XII, dealing with a variety of sports as practiced and described by the ancients. Chapter XI (pp. 179-198) deals with fowling, discussing various aspects of the subject including falconry.

A scholarly work. For those interested in the earliest beginnings of ornithology, the chapter on fowling should be worthwhile reading.

BUTLER, AMOS WILLIAM (1860-1937)

443. 1898. Indiana. / Department / of / Geology and / Natural Resources. / Twenty-second annual report. / W. S. Blatchley, / State Geologist. / 1897. / Indianapolis: / Wm. B. Burford, contractors for state printing and binding / 1898.

> **The / birds of Indiana.** / A descriptive catalogue of the birds that have / been observed within the state, with an / account of their habits. / By Amos W. Butler. [*Caption-title; p. 515.*]

8vo (22.3 × 15.2 cm). Pp. [2], 515-1187; plates XXI-XXV (wash drawings and line drawings; 4 by John L. Ridgway, 1 by F. Muller), 112 text-figs.

*Contents*—Title; introd., pp. 515-531; bibl. of Indiana ornithology, pp. 532-548; key to birds, pp. 550-556 (adapted from Ridgway); text, pp. 556-1165, a thorough discussion of the occurrence and distribution of Indiana birds as then known, with brief descriptions, statements of extralimital range, etc.; hypothetical list, pp. 1166-1181; index to common and scientific names, pp. 1182-1187.

A respectable faunal work in its time, and still a basic source though long out of date. The present is a revised and much enlarged version of the author's "A catalogue of the birds of Indiana," originally published (1891) in the *Transactions of the Indiana Horticultural Society* for 1890, Appendix C, pp. 1-135, with a limited number of specially titled separates (Zimmer, 118; see also *Auk*, 1891:383-384). The present work also appeared both separately (as collated), and as part of the complete report.

Wood, 274; Zimmer, 118-119. Reviewed: *Auk*, 1898:335-336 (J. A. Allen).

BUTLER, ARTHUR GARDINER (1844-1925)

444. (?1885-) 1886. **British birds' eggs:** / a handbook / of / British oölogy. / By / Arthur Gardiner Butler, F.L.S., F.Z.S., &c. / Illustrated, by the Author, in Chromolithography. / London: / E. W. Janson, 35, Little Russell Street.

8vo (22.3 × 14.4 cm). Pp. i-viii, 1-219; chromolith. front., chromolith. plates I-XXXVII (by the author).

*Contents*—Half-title; title; introd., pp. v-viii; text, pp. 1-206; addendum, p. 207; "Dates of publication of this work," p. 208 (details below); "A classified list of birds which breed or have until recently bred in Great Britain," pp. 209-214; index, pp. 215-219. The text gives briefly for each species geographic distribution, food, nest, position of nest, number of eggs, and time of nidification, followed by general remarks concerned with nesting and related matters, with frequent locality

records resulting from the author's own work. The plates, figuring one egg or more for each species treated, are carefully executed.

A small, handsome book still of some utility. Bound at the end of one copy at hand is a set of original covers of the six parts in which the work was published, the dates thereupon conforming with those given on p. 208, as follows (all 1886): Pt. I, June, sheets (sigs.) B, C, and titling, front., plates I-VI; Pt. II, July, sheets D-F, plates VII-XII; Pt. III, August, sheets G, H, plates XIII-XVIII; Pt. IV, September, sheets I, K, L, plates XIX-XXIV; Pt. V, October, sheets M, N, plates XXV-XXX; Pt. IV, November, sheet O, list and index, plates XXXI-XXXVII. There is, however, some question as to whether the work really appeared this regularly. Mullens and Swann date it 1885-86. Pasted into one of the Ellis copies (bookplate: Thomas Parkin) is a letter from the author to E. A. Porter, dated Kent, Dec. 12, 1911, in which Butler wrote: ". . . respecting my 'Handbook of British Oölogy' . . . I think, from the fact that I drew all the plates before the publication was commenced (excepting I think the last one or two), that the whole of the numbers must have come out in 1886; but I cannot be sure that the first number or two did not appear in 1885 . . . . The Birds of Gr. Britain (Passeres) vol. I came out in 1907 and vol. II in Oct.<sup>r</sup> 1908 . . . ." *The Zoological Record* for 1887 lists the work as of 1886.

Mullens and Swann, 111; Nissen, 166; Wood, 274; Zimmer, 119.

445. 1894-96. *Foreign finches / in captivity / By / Arthur G. Butler, Ph. D., F.L.S., F.Z.S., F.E.S. / Corresponding Member [Etc., 4 lines] / Illustrated with sixty plates by F. W. Frohawk, F.E.S.; coloured by hand / [Monogram] / London / L. Reeve & Co. / Publishers to the Home, Colonial, and Indian governments / 6, Henrietta Street, Covent Garden / 1894. [Title in red and black.]*

4to (31.8 × 25.2 cm). Pp. [4] i-viii [ix-x], 1-332; 60 lith. col. plates (by Frohawk).

*Contents*—Title, 1 leaf; ded., 1 leaf; introd., pp. i-viii; conts.; text, pp. 1-332, giving brief discussions of major groups and descriptions of the species treated with accounts, in some cases, of their distributions and habits in the wild, and discussions of variable thoroughness of their care and behavior in captivity. Some birds not properly finches are included, such as mannikins, tanagers, and weavers; a few American species are treated.

A handsome work providing a comprehensive treatment of a subject in which the author specialized; 80 species are dealt with. The work was originally published in 10 parts. A second edition appeared in 1899 (No. 446).

Nissen, 169; Wood, 274. Reviewed: *Ibis*, 1895:390-391 (pts. I-III); 1896:569 (pts. IV-X).

446. 1899. *Foreign Finches / in captivity / Second edition. / By / Arthur G. Butler, Ph. D., F.L.S., F.Z.S., F.E.S. / Corresponding Member of [Etc., 4 lines] / Illustrated by F. W. Frohawk, M.B.O.U., F.E.S. / Delineator of the series of plates issued with "British Birds, with their Nests and Eggs," &c. / Brumby and Clarke, Limited, / Hull and London. / 1899.*

8vo (28.0 × 19.1 cm, untrimmed). Pp. [8], i-viii, 1-317 [318]; chromolith. front., 59 chromolith. plates<sup>1</sup> (by Frohawk).

*Contents*—Half-title; title; ded.; conts; introd., pp. i-viii; text, pp. 1-317, essentially as in the first edit., with occasional changes and additions both in body and footnotes.

The second edition, being slightly smaller than the first (4to) edition, 1894-96 (No. 445).

Wood, 274; Zimmer, 120.

447. 1896-98. **British birds / with their / Nests and Eggs / in six volumes / Order Passeres / (First Part) /** By Arthur G. Butler, Ph. D., F.L.S., F.Z.S., F.E.S., / Corresponding Member [*Etc.*, 4 lines.] / Illustrated by / F. W. Frohawk, M.B.O.U., F.E.S. / Volume I. / Brumby & Clarke, Limited, / Baker Street, Hull, and 5, Farringdon Avenue, London, E. C.

Above is title of vol. I; titles of further volumes as follows:

[*Idem*, 5 lines] / (Second Part) / [*Idem*, 7 lines] / Volume II. / [*Idem*, 2 lines].

[*Idem*, 4 lines] / Order Picariae. / By Arthur G. Butler, Ph. D., F.L.S., F.Z.S., F.E.S., / Orders Striges and Accipitres / By Rev. Murray A. Mathew, M.A., F.L.S., M.B.O.U., / Author of [*Etc.*, 1 line]. / Order Steganopodes. / By Henry O. Forbes, LL. D., F.R.G.S., A.L.S., M.B.O.U., / Author of [*Etc.*, 1 line]. / Illustrated by / [*Idem*, 1 line]. / Volume III. / [*Idem*, 2 lines].

[*Idem*, 4 lines] / Orders Herodiones and Odontoglossae. / By Henry O. Forbes, LL. D., F.R.G.S., A.L.S., M.B.O.U., / Author of [*Etc.*, 1 line]. / Order Anseres. / By John Cordeaux, F.R.G.S., M.B.O.U., / Author of [*Etc.*, 1 line]. / Orders Columbæ and Pterocletes. / By W. B. Tegetmeier, M.B.O.U., / Author of [*Etc.*, 1 line]. / Illustrated by / [*Idem*, 1 line]. / Volume IV. / [*Idem*, 2 lines].

[*Idem*, 4 lines] / Orders Gallinae, Fulicariae, and Alektorides. / By W. B. Tegetmeier, M.B.O.U., / Author of [*Etc.*, 1 line]. / Order Limicolae. / By Rev. Henry H. Slater, M.A., F.Z.S., M.B.O.U., / Illustrated by / [*Idem*, 1 line]. / Volume V. / [*Idem*, 2 lines].

[*Idem*, 4 lines] / Order Gaviae. / By Henry O. Forbes, LL. D., F.R.G.S., A.L.S., M.B.O.U., / Author of [*Etc.*, 1 line]. / Order Pygopodes. / By O. V. Aplin, F.L.S., M.B.O.U., / Author of [*Etc.*, 1 line]. / Order Tubinares. / By Rev. H. A. Macpherson, M.A., M.B.O.U., / Author of [*Etc.*, 1 line]. / Illustrated by / [*Idem*, 1 line]. / Volume VI. / [*Idem*, 2 lines].

6 vols., 4to (31.7 × 25.2 cm, untrimmed).

Vol. I: pp. [4] 1-208; chromolith. plates I-III (eggs), 56 half-tone plates, 1 text-fig.<sup>1</sup>

Vol. II: pp. [4], 1-192; chromolith. plates IV-VII (eggs), 51 half-tone plates, 2 text-figs.

Vol. III: pp. [4], 1-175; chromolith. plates VIII-XIII (eggs), 45 half-tone plates.

<sup>1</sup> The plates opposite pp. 212 and 222 were omitted from the list of contents of the work.

<sup>2</sup> Zimmer omits reference to this fig.

Vol. IV: pp. [4], 1-218 [219]; chromolith. plates XIV-XV (eggs), 55 half-tone plates, 3 text-figs.<sup>2</sup>

Vol. V: pp. [4], 1-178; chromolith. plates XVI-XVIII (eggs), 62 half-tone plates, 2 text-figs.

Vol. VI: pp. [4], 1-252; chromolith. plates XIX-XXIV (eggs), 49 half-tone plates.

*Contents*—All vols. contain title and conts. There is no introd. or prefatory matter, but short introductions to each order appear at appropriate places, signed by the various authors indicated in titles. An artist's appendix appears on pp. 243-244 of vol. VI, pp. 245-249 of that vol. being devoted to an "Index of birds" for the whole work and pp. 251-252 to an index of the plates of eggs. The text, without synonymies or other technical matter, is informative and extensive. Frohawk's 24 col. plates (containing figs. numb. consecutively 1-475) of eggs and 318 half-tones (from wash drawings) of birds, while in general ornithologically accurate, are rather stiff and of no great artistic merit.

A handsome work and a thorough account of the subject, treating many vagrant forms as well as typically British birds. According to Zimmer: "Vol. I was published in 1896, II in 1896-97, III and IV in 1897, and V and VI in 1898." Anker and Nissen also give dating 1896-98, but Mullens and Swann give 1896-99. *The Zoological Record*, so far as I can determine, gives dates only for the first (1896) and third (1897) volumes. As stated by Zimmer, vols. I and II appeared again in 1907-08, with added plates, as *Birds of Great Britain and Ireland* (No. 450). The plates, with abbreviated text, again appeared in 1904 under title of *Birds' eggs of British Isles* (No. 448).

Anker, 88; Mullens and Swann, 111; Nissen, 167; Wood, 274; Zimmer, 119-120. Reviewed: *Ibis*, 1897:270-271 (vol. I only).

448. 1904. *Birds' eggs / of / the British Isles.* / Collated by / Arthur G. Butler, Ph. D., F.L.S., F.Z.S., F.E.S., / Late Senior Assistant-Keeper of Zoology, Natural History Museum, / South Kensington, / Author of [*Etc.*, 2 lines]. / With 24 coloured plates, / (illustrating 475 specimens) from drawings / by / F. W. Frohawk, M.B.O.U., F.E.S. / London: / L. Upcott Gill, Bazaar Buildings, Drury Lane, W.C. / New York; Chas. Scribner's Sons, 153-157, Fifth Avenue. / 1904.

8vo (28.6 × 22.4 cm). Pp. i-vii [viii-x], 1-105; chromolith. plates I-XXIV (eggs; by Frohawk).

*Contents*—Half-title; title; conts., pp. v-vii; introd., p. [ix]; text, pp. 1-105, describing the nesting habits of the species whose eggs are figured, and occasionally including original observations and locality records. The eggs shown in the plates are numb. 1-475, more than one of a species sometimes appearing.

An attractive volume doubtless still useful to those interested in its subject. The colored plates are from the author's six-volume work *British birds with their nests and eggs*, 1896-98 (No. 447), the text consisting, with few additions, of those parts of the larger work concerned with nesting, selected and arranged especially for

<sup>2</sup> Double figs., evidently accounting for Zimmer's notation of "6 text-figs."

the present work. According to Nissen, the present work appeared again in 1910. Bookplate: Major General Sir Percy Zachariah Cox.

Nissen, 167.

449. 1907. *How to / sex cage birds / (British and foreign) / By / Arthur G. Butler / Ph. D. [Etc., 1 line]. / Author of [Etc., 1 line]. / With over Fifty Illustrations and / four coloured plates / "The Feathered World" / "Canary and Cage-bird Life" / 9 Arundel Street, Strand, London, W. C.*

8vo (21.4 × 14.0 cm). Pp. 1-176; col. front., 3 col. plates (by E. F. Bailey), 50 text-figs. (line-cuts, half-tones, etc.).

*Contents*—Title; conts.; introd. (dated July 1907); text, pp. 1-160, in chapters I-XXXI, stating briefly the secondary sexual differences found in birds from many parts of the world often or sometimes kept in cages; index, pp. 161-176.

A useful work for the purpose at hand. Many little-known British bird artists contributed the cuts of the work. In the MS. letter referred to under No. 444, the author dates the work 1907.

Wood, 274.

450. 1907-08. *Birds / of / Great Britain and Ireland / order Passeres, complete in two volumes. / By Arthur G. Butler, M.B.O.U., Ph. D., F.L.S., F.Z.S., F.E.S., / Corresponding Member of Various Foreign Societies, / Author of [Etc., 3 lines.] / Illustrated by / H. Grönvold and F. W. Frohawk, M.B.O.U., F.E.S. / Volume I [II]. / Brumby & Clarke, Limited, Publishers, / Hull and London.*

2 vols. (29.0 × 23.0 cm).

Vol. I: pp. [6], 1-210; chromolith. plates I-IV (eggs; by Frohawk), 1-56 (birds, by Grönvold).

Vol. II: pp. [6], 1-216; chromolith. plates V-VII, VIIa (eggs; by Frohawk), 57-107 (birds; by Grönvold).

*Contents*—Each vol. contains title, summary of collation, and conts.; vol. I contains also an introd. (pp. 1-2), and vol. II has indices to the whole work (pp. 213-216). The remaining pp. contain the text, except pp. 202-211 of vol. II, devoted to an appendix treating accidental visitors.

"A reprint of Vols. I and II of the author's (and others') 'British Birds with their Nests and Eggs,' 1896-98 . . . with some additions but with certain typographical errors of the original left unaltered . . . includes discussions of 26 species not in the earlier volumes [No. 447], 18 of which occupy an appendix. The plates of the eggs are likewise copied (with altered backgrounds); the plates of the birds appear to be new" (Zimmer). Zimmer describes a copy with a variant imprint, *i.e.*, Caxton Publishing Co., Clun House, Surrey Street, Strand, London. No dates appear in the work, but various sources date it 1907-08 (Nissen gives 1904-08), as does the author in the MS. letter partly quoted under No. 445 (*q.v.*).

Mullens and Swann, 112; Nissen, 168; Wood, 274; Zimmer, 120-121.

451. 1908-1910 (?). *Foreign birds / for cage and aviary.* / By Arthur G. Butler, / Ph. D., F.L.S., F.Z.S., M.B.O.U., etc. / Part I [II]. / The smaller foreign birds [The larger foreign birds]. / Illustrated / "The Feathered World," / "Canary and Cage-Bird Life," / 9, Arundel Street, Strand, London, W. C. / All rights reserved.

2 vols. (24.5 × 18.5 cm).

Part I: pp. 1-205 [206-208]; 60 text-figs. of birds and birds' heads, by A. F. Lydon, A. G. Butler and others.

Part II: pp. 1-304, i-iii; col. front., by E. F. Bailey, 80 text-figs. of birds and birds' heads, by A. F. Lydon, A. G. Butler and others (incl. some photos.).

*Contents*—Part I: title; list of illustrs.; conts.; pref.; text, pp. 7-205; index to scientific names; advt. Part II: title; pref.; conts.; list of illustrs.; text, pp. 11-304; index to scientific names. Discusses "about a thousand species of cage-birds," describing the appearance of each, its habits in the wild state (where known to the author), its behavior in captivity, and its chances for survival in England. The illustrations, drawn largely from the magazines under whose auspices the work was published, are of indifferent quality.

The dates of publication are drawn from internal evidence. The date 1907 is quoted in the text of Part I, while the advt. at the end refers to January 1909 as a future date. The latest date mentioned in Part II is 1909.

Wood, 274.

#### BUTLER, EDWARD ARTHUR (1845-1925)

452. 1879. *A catalogue / of the / birds of Sind, Cutch, Ka'thia'wa'r, North / Gujara't, and Mount Aboo, / including / every species known to occur in that / tract of country up to date, / with / references showing where each species is described,\* / and locality marking its distribution so far as / is known at present in the tract of country / to which the catalogue refers.* / By Capt. E. A. Butler, H. M.'s 83rd Regiment. / [*Note on use of list and preparation of specimens, 10 lines.*] / \*These references have been confined as much as possible to Jerdon's *Birds of / India*, Mr. Hume's *Raptors and Stray Feathers*, works which all who take an interest / in the subject should be in possession of. A new edition of Jerdon has just been / published, price Rs. 30, unbound. / Contributed to the *Bombay Gazetteer.* / Bombay: / printed at the Government Central Press. / 1879.

8vo (24.8 × 15.2 cm). Pp. [2], 1-83.

*Contents*—Title, 1 leaf; introd., p. 1 (signed at Belgaum, June 30, 1879); note, p. 3; text, pp. 4-83, a briefly annotated list of birds recorded from several areas mentioned in title, giving names, references, and brief statements of status.

An early paper on birds of the areas concerned.

Wood, 274.

453. 1880. A catalogue / of the / birds of the southern portion of the / Bombay Presidency. / By / Captain E. A. Butler, H. M.'s 83rd Regiment. / Contributed to the Bombay Gazetteer. / Bombay: / printed at the Government Central Press. / 1880.  
8vo (24.7 × 15.4 cm). Pp. [2], 1-113; addenda slip, col. fold. map.

*Contents*—Title, 1 leaf; introd., p. 1 (dated at Belgaum, Sept. 10, 1880); note, p. 2; text, pp. 3-113, a briefly annotated list of 426 native and 97 extralimital species, giving for each form scientific and common names, statement of status, and usually reference to Jerdon's *The birds of India*, Calcutta, 1862-64, and Hume's papers in *Stray Feathers* under title of "Catalogue of the birds of India."

A basic document in the ornithological history of the area concerned, reprinted and augmented from copy originally published in the *Bombay Gazetteer*.

Wood, 274; Zimmer, 121.

BUXTON, ANTHONY (1881- )

454. 1932. *Sporting / interludes / at Geneva* / By / Anthony Buxton / [*Orn.*] / London: Country Life Ltd. / New York: Charles Scribner's Sons.  
8vo (24.7 × 18.3 cm). Pp. [12], 1-115 [116]; 32 photogr. plates (printed both sides 16 glossy leaves) bearing photos. 1-66.

*Contents*—Half-title; title; ded.; conts.; pref.; text, pp. 1-113, in chapters I-X; index, pp. 114-[116]. Chapters I-VII and their illusts. are ornithological, I and II being introductory and III-VII devoted to observations on certain common European birds, some of the notes being interesting and astute. Chapters VIII-X are devoted to sporting subjects.

A handsome book containing some excellent photographs and written in a pleasing literary style (a delightful chapter on fishing, a subject generally represented by more bad writing than almost any other, is tribute to the author's skill). The observations here described were made while Buxton served with the League of Nations.