

CReSIS Field Data Search

New tool to access CReSIS radar data, with some new ways to access the data, in a more user-friendly format.

<https://stonecracker.cresis.ku.edu/fielddata>

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CReSIS

Introduction

- Data organized by general area and date collected.

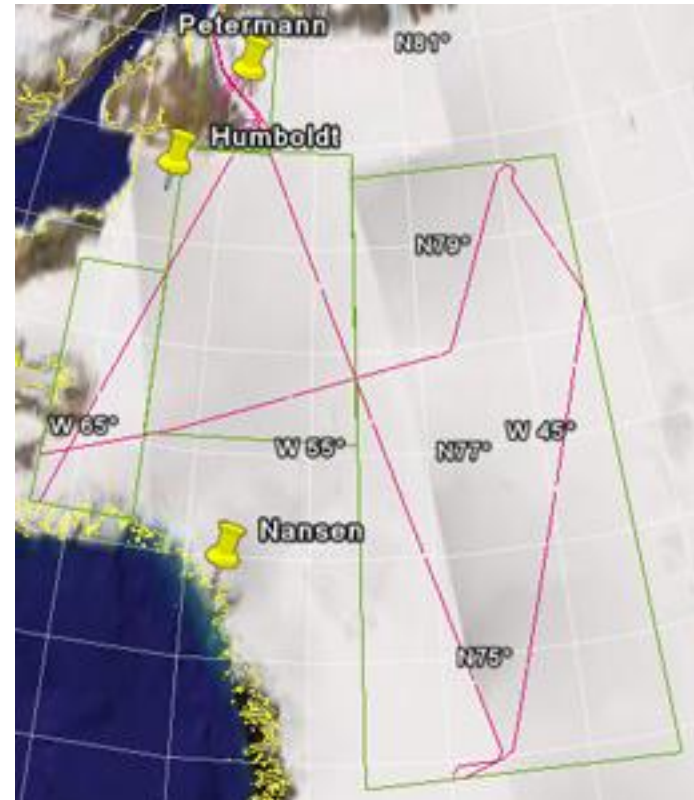
Data				
Year	Data in PDF format	Data in MAI (Matlab) format	Thickness data files (Readme)	
2005	may14_05.pdf (6.8 MB)	May 14	may14_05.th (1.7 MB)	
	may14b_05.pdf (9.4 MB)	May 14b	may14b_05_ (2.4 MB)	
	may14c_05.pdf (10.0 MB)	May 14c	may14c_05.th (2.5 MB)	
	may17_05.pdf (28.0 MB)	May 17	may17_05.th (6.4 MB)	
	may18_05.pdf (8.6 MB)	May 18	may18_05.th (2.2 MB)	
	may19_05.pdf (5.6 MB)	May 19	may19_05.th (1.5 MB)	
	may19b_05.pdf (5.7 MB)	May 19b	may19b_05.th (1.6 MB)	
	may19c_05.pdf (2.7 MB)	May 19c	unavailable	
	may22_05.pdf (18.0 MB)	May 22	may22_05.th (3.7 MB)	
	may23_05.pdf (7.5 MB)	May 23	may23_05.th (2.0 MB)	
	may23b_05.pdf (6.2 MB)	May 23b	unavailable	
	2003	may09_03.pdf (15.1 MB)	May 09	may09_03.ht (0.6 MB)
		may11_03.pdf (25.6 MB)	May 11	may11_03.ht (1.0 MB)
may12_03.pdf (24.8 MB)		May 12	may12_03.ht (1.0 MB)	
may13_03.pdf (18.9 MB)		May 13	may13_03.ht (0.7 MB)	
may14_03.pdf (28.1 MB)		May 14	may14_03.ht (1.1 MB)	
may15_03.pdf (21.5 MB)		May 15	may15_03.ht (0.9 MB)	

- Two new ways to access data:
 - Latitude/Longitude search
 - Glacier lists



Latitude and Longitude Search

- Each flight path broken up into multiple boxes.
- User defines a small area bounded by minimum and maximum latitude/longitude.
- Search returns data files with boxes that contain the user's search box.



Search Example

- Search for Petermann Glacier data in Greenland

Search for data within latitude/longitude range. Put a '-' before latitudes in the southern hemisphere and western longitudes. Please enter latitude and longitude in decimal form (ex: 61.86)

Maximum latitude:

Minimum latitude:

Maximum longitude:

Minimum longitude:

[Search](#)

[View Greenland Glaciers](#)

[View Antarctic Glaciers](#)

[View Arctic Glaciers](#)

- Petermann Glacier search results

Search Results

7 date(s) selected Search latitude range: 80.6 through 80.4 Search longitude range: -59.4 through -59.6

[may14_03.pdf](#)

[Google Earth view](#)

81.16100 through 73.84100

-41.88900 through -66.69800

[may28_02.pdf](#)

81.18400 through 76.87500

-55.58600 through -68.78300

[may10_99.pdf](#)

81.27700 through 72.83900

-47.96100 through -67.05800

[may28_97.pdf](#)

81.05600 through 76.83300

-47.68800 through -65.86200

[may27_97.pdf](#)

81.98800 through 77.09700

-46.13700 through -66.52500

[may15_96.pdf](#)

81.33200 through 74.66300

-48.96600 through -69.74800

[may26_95.pdf](#)

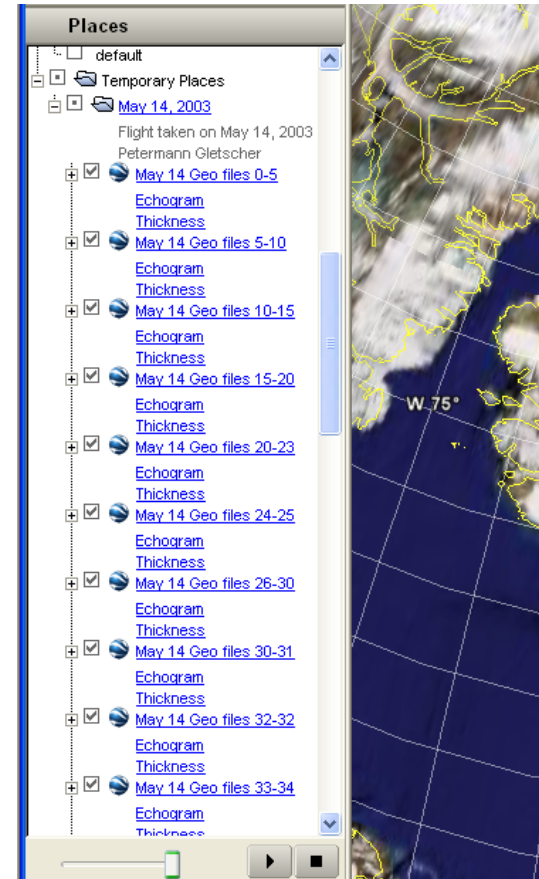
82.56200 through 76.38900

-55.40800 through -85.24000



Google Earth View

- Newer field data sets include a link to Google Earth.
- Each section of the flight path has links to the corresponding PDF pages.



Glacier List

- Click on name of ice mass on map or in list.



- A list of files with data for that ice mass replaces the text list.



Future Work

- Currently working on searching for data by page.
 - Sort by relevance to search coordinates.
 - <https://stonecracker.cresis.ku.edu/fielddata/pgindex.html>
- Search text files and create new text file.





National Science Foundation

WHERE DISCOVERIES BEGIN

Questions?



KU



CReSIS