

BREA's Contribution to the Polar Data Catalogue

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Canadian Cryospheric Information Network
University of Waterloo

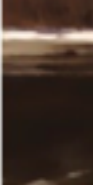





BREA Research Results Forum
Inuvik, February 2015

CCIN History

- Canadian Cryospheric Information Network
- Begun in mid-1990's as a partnership
 - Ellsworth LeDrew (University of Waterloo)
 - Canadian Space Agency
 - Meteorological Service of Canada / Environment Canada
 - Natural Resources Canada
 - Noetix Research Inc.
- To provide data management access for the Canadian cryospheric community

CCIN Website

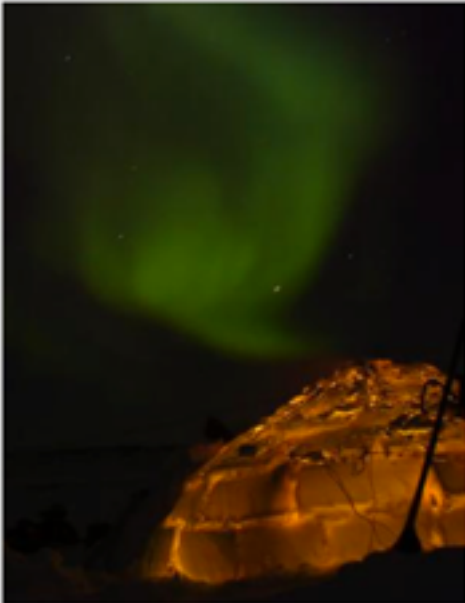
**CANADIAN CRYOSPHERIC
INFORMATION NETWORK**



ABOUTCANADIAN CRYOSPHERE WATCHPOLAR DATA CATALOGUERESOURCES

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The Canadian Cryospheric Information Network (CCIN) and the Polar Data Catalogue (PDC) have been developed over the past two decades through collaborative partnerships between the University of Waterloo and numerous government, university, and private organizations to provide the data and information management infrastructure for the Canadian cryospheric community. [Read more](#)

BULLETIN BOARD

January 2015: New Daily Arctic and Antarctic sea ice maps from [Polar View](#) have been added to the [Current Sea Ice](#) page!

November 2014: Two new [journal articles](#) have been published about CCIN and the PDC! Go to [the CCIN publications page](#) to view and download the articles.

[Read past bulletin board posts](#)

ARCTIC NEWS

Weather Outlook: Warmer today, but arctic air around corner - [fox8.com](#)

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'Blast of arctic air' on its way to Chattanooga - [Chattanooga Times Free Press](#)


Big Hole's Arctic grayling focus of environmentalists' lawsuit - [Montana Standard](#)


Temps in the 30s before arctic blast - [fox8.com](#)


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ANTARCTIC NEWS

TOOLS & RESOURCES


**Polar Data Search**
Data and metadata from the Arctic and Antarctic

**PDCLite Search**
PDC Search for low bandwidth connections

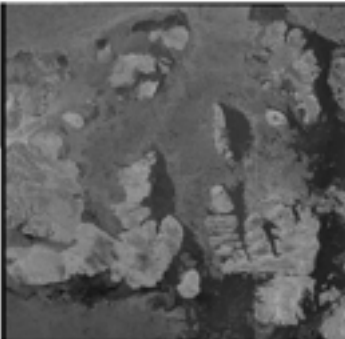

**PDC Data Input Portal**
Data and metadata repository for registered users

**Canadian Cryosphere Watch**
Information on Canada's snow and ice

FUN AND GAMES

**Kids' Section**
Games and learning for kids

RADARSAT IMAGE






For higher resolution images visit the [Polar Data Catalogue](#)

ANSWERS FROM THE EXPERTS


Inquiry about glaciers and ice caps on Ellesmere Island (Nunavut)

[All FAQs](#)

SOCIAL MEDIA



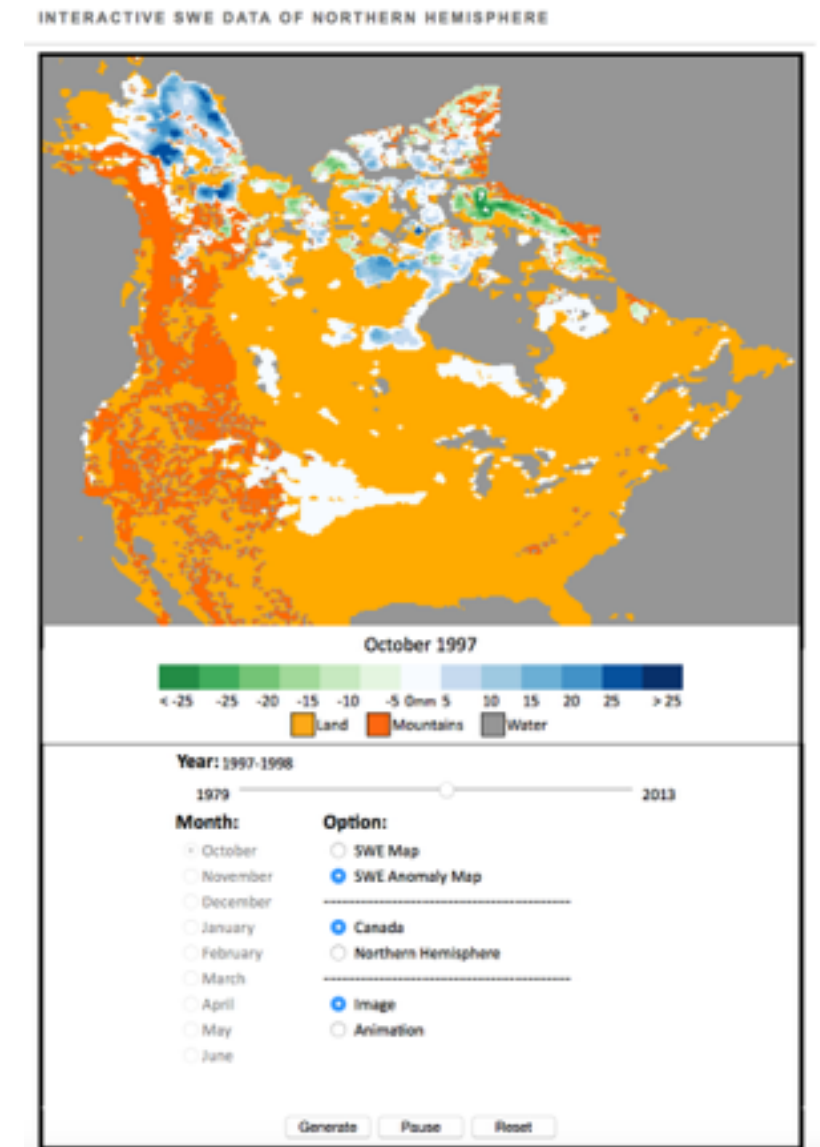
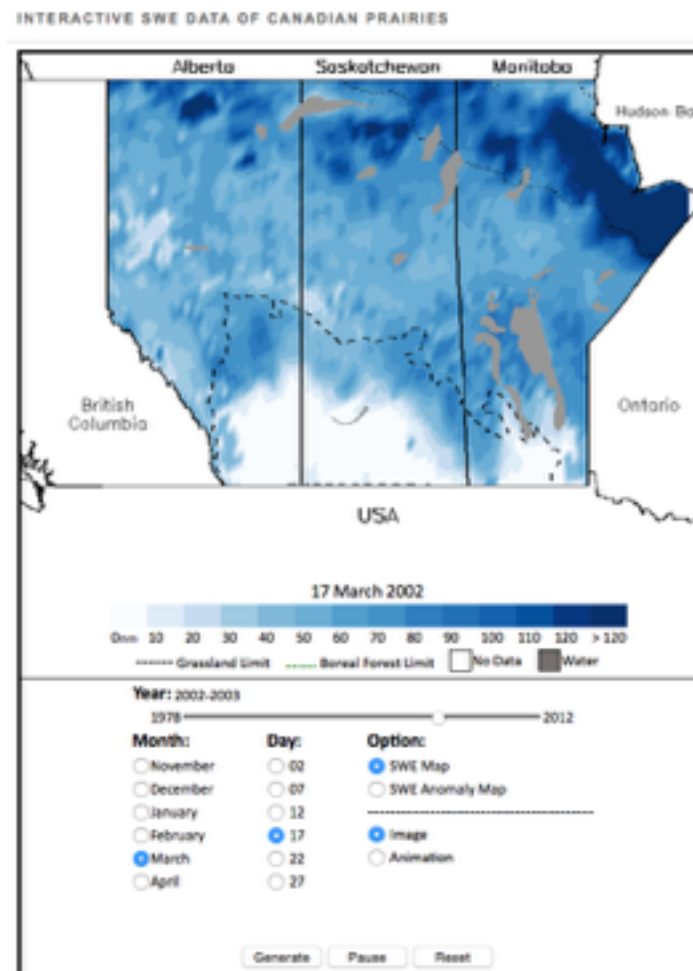
Tweets

**Polar Data Catalogue**
[@polardata](#)
New Metadata available @ [polardata.ca/pdcsearch/PDCS...](#) : 'PPS Arctic: Treeline dynamics and veg'

Tweet to [@polardata](#)

CCIN Website

- Scientific news and discoveries
- Interactive data visualization
- Videos
- Photos
- Kid's section



The Polar Data Catalogue

- polardata.ca
 - Partnership between ArcticNet, CCIN, Department of Fisheries and Oceans, and Noetix Research Inc.
- Archive and online portal for polar research data and metadata from **BREA** and other programs/projects (ArcticNet, NCP, IPY, NGMP, CHARS, CBMP,...)
- Launched in 2007, using accepted standards for sharing

The Polar Data Catalogue is a database of metadata and data that describes, indexes, and provides access to diverse data sets generated by Arctic and Antarctic researchers. The metadata records follow **ISO 19115** and **Federal Geographic Data Committee (FGDC)** standard formats to provide exchange with other data centres. The records cover a wide range of disciplines from natural sciences and policy, to health and social sciences. The PDC Geospatial Search tool is available to the public and researchers alike and allows searching data using a mapping interface and other parameters.

The **PDC Lite Search** is also available for users with limited Internet speed.



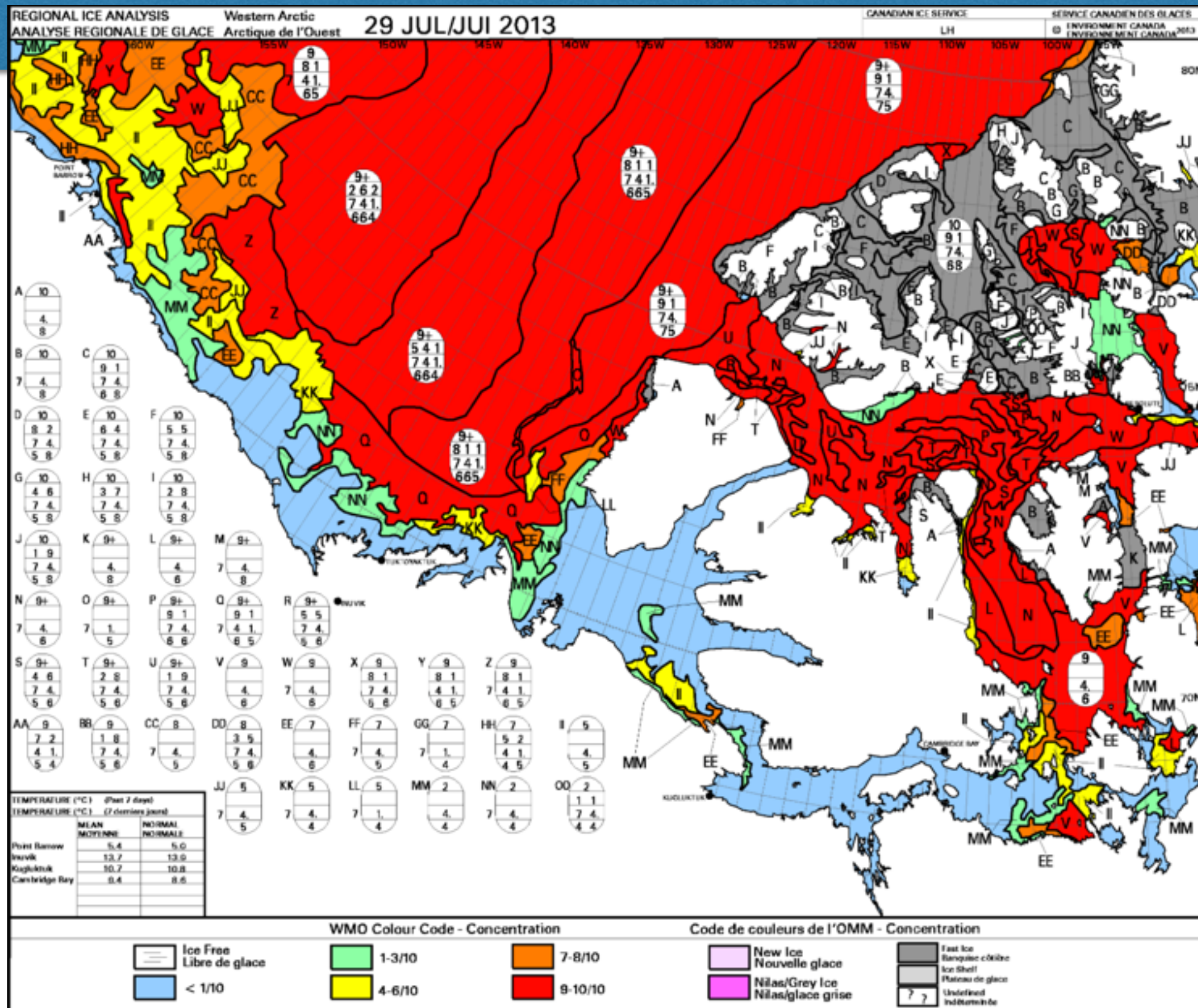
November 2014: Two new journal articles have been published about CCIN and the PDC! Go to [the CCIN publications page](#) to view and download the articles.

Warning: If the server is restarted during this time and you are making changes to metadata, the changes will be lost.

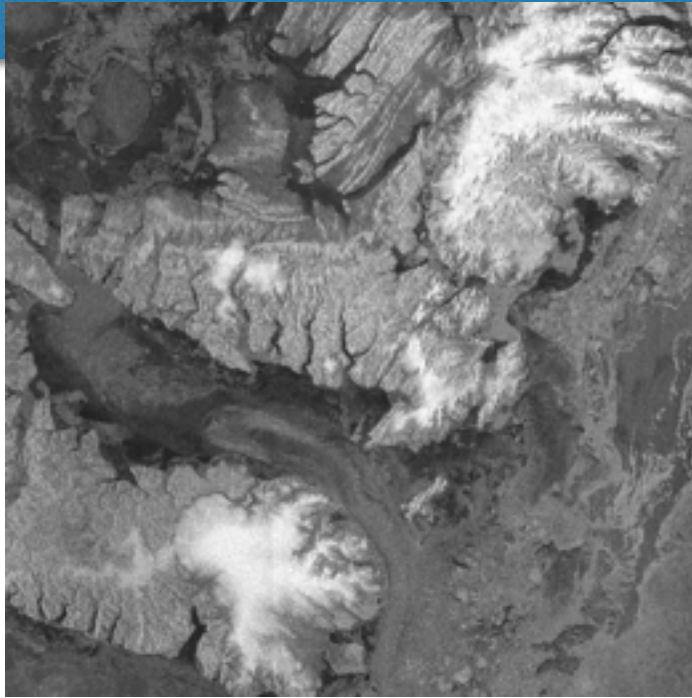
PDC Search


- Metadata initially, data since 2011
 - 1,978 metadata records
 - 247 datasets (>235K datafiles)
- Dataset and information
 - Climate and weather
 - Glaciers, snow, sea ice
 - Caribou, arthropods, foxes
 - Human health

Sea Ice Charts



RADARSAT






POLAR DATA CATALOGUE

Polar Data Catalogue Geospatial Search

[Home](#) | [Logout](#) | [Help Manual](#) | [PDD Lite Low-bandwidth Search](#) | v. 4.1.3

Antarctic | **Arctic** | Data

[+/-](#) [Full Screen](#)



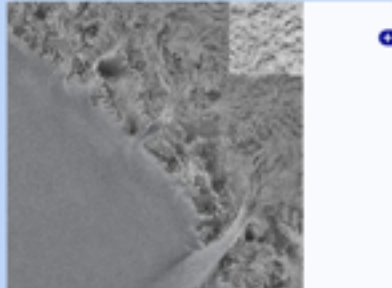
Map courtesy of the NSERC

65.1736, -98.9892

[Antarctica](#) | **Results** | [Metadata](#) | [Data](#)

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 -563200, -158404.6921




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Product: S5Wt_25m_Tiles (10-98)	File Size (MB)
S5W 150m 25m tile su 56-60_nor	800.16
S5W 150m 25m tile su 56-60_20v	800.16

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 CANADIAN CRYOSPHERIC INFORMATION NETWORK

ArcticNet
 879-974-0707 24h/7d/365d

Polar Data Catalogue © Canadian Cryospheric Information Network 2013



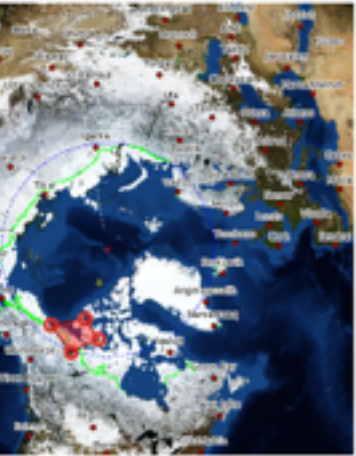
POLAR DATA CATALOGUE

Polar Data Catalogue Geospatial Search

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Antarctic

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Map overview of the Arctic.

Use navigation tools to zoom to your area of interest and click the "clip and download" button to process your image.

74.9478 / 131.6634



64.6764 / 115.4912

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High Quality Format	<input type="radio"/> CEOS (Original)	<input checked="" type="radio"/> GeoTIFF
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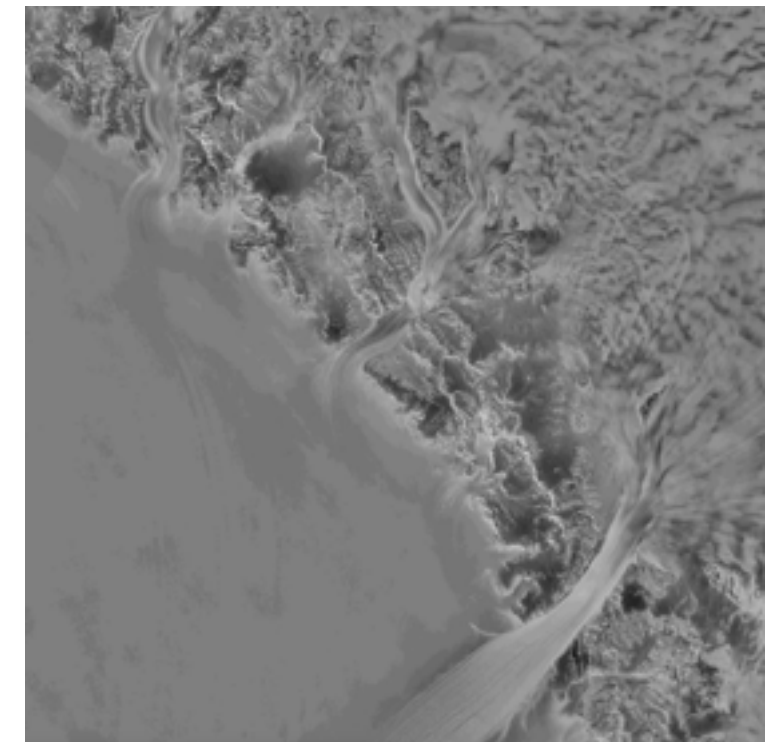
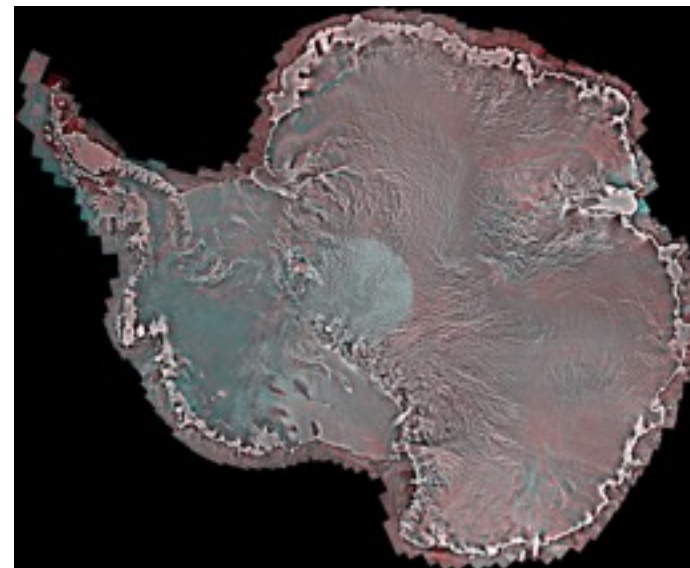
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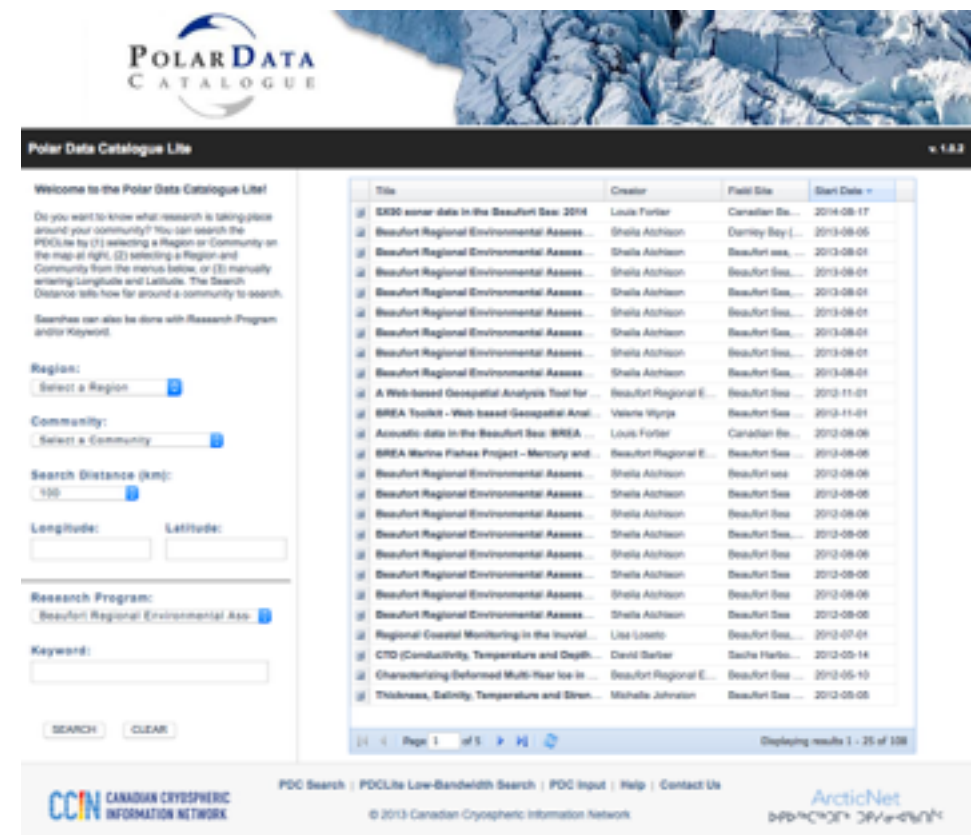
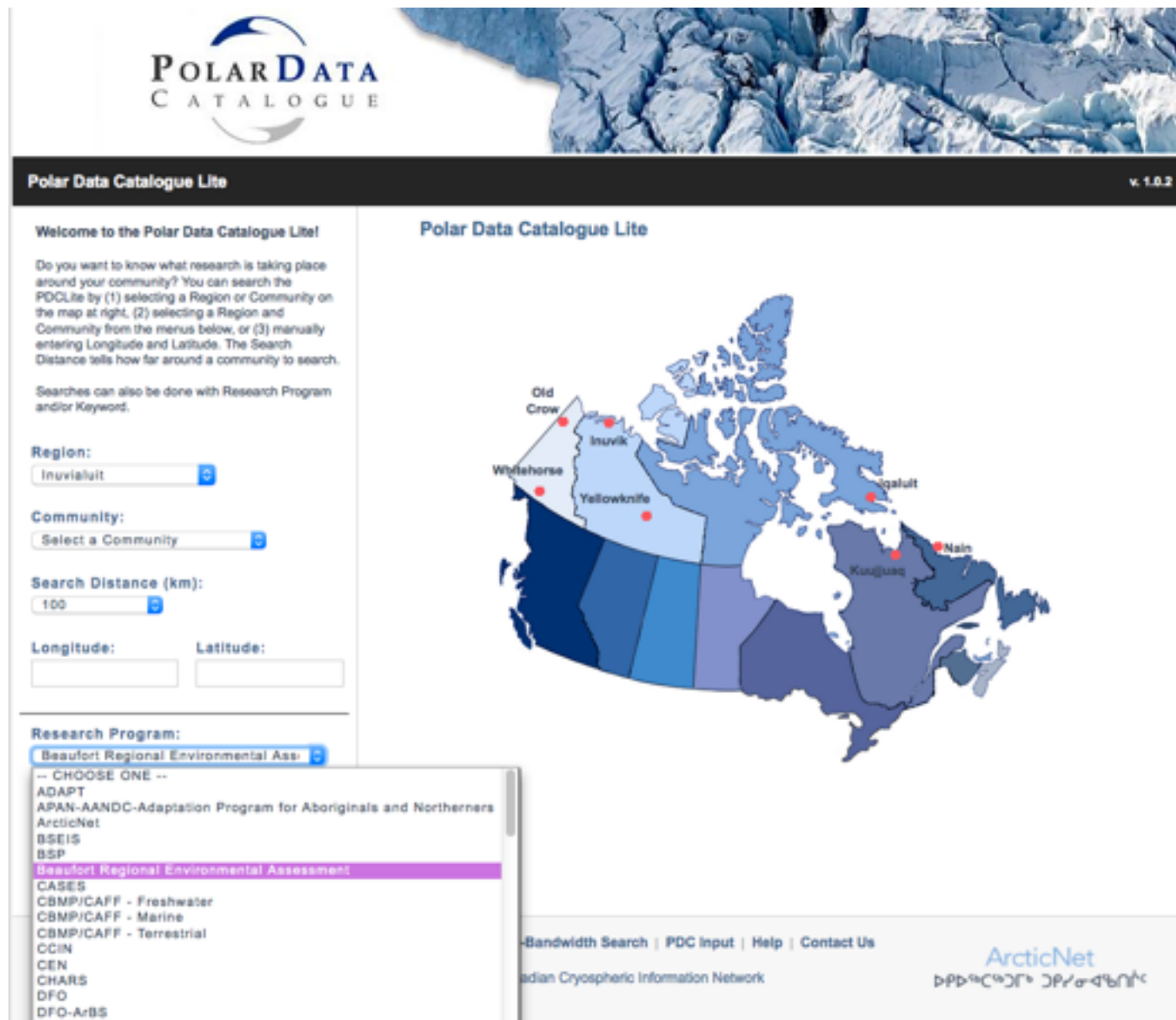
ArcticNet

Арктический центр исследований

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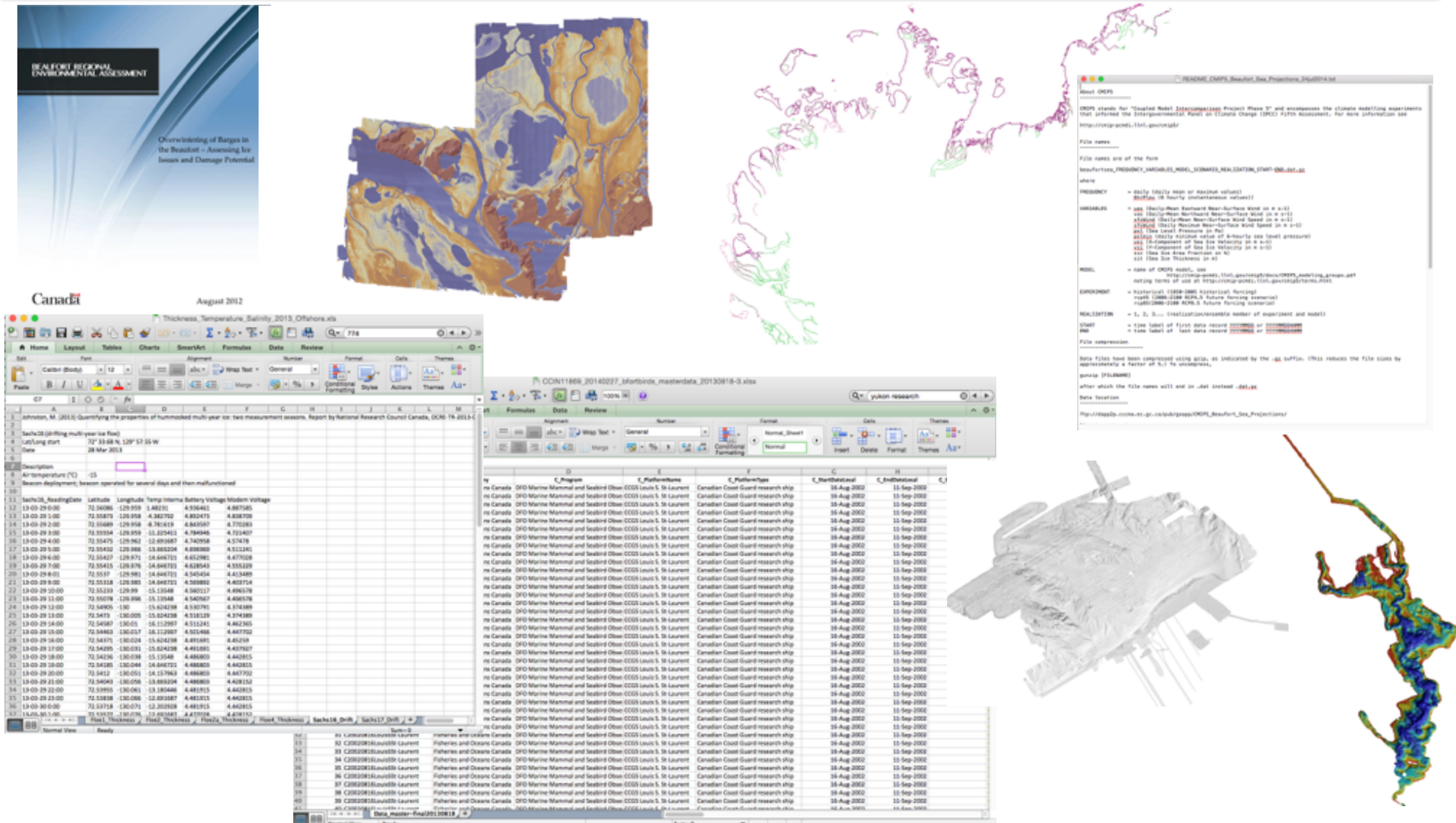
PDC Lite



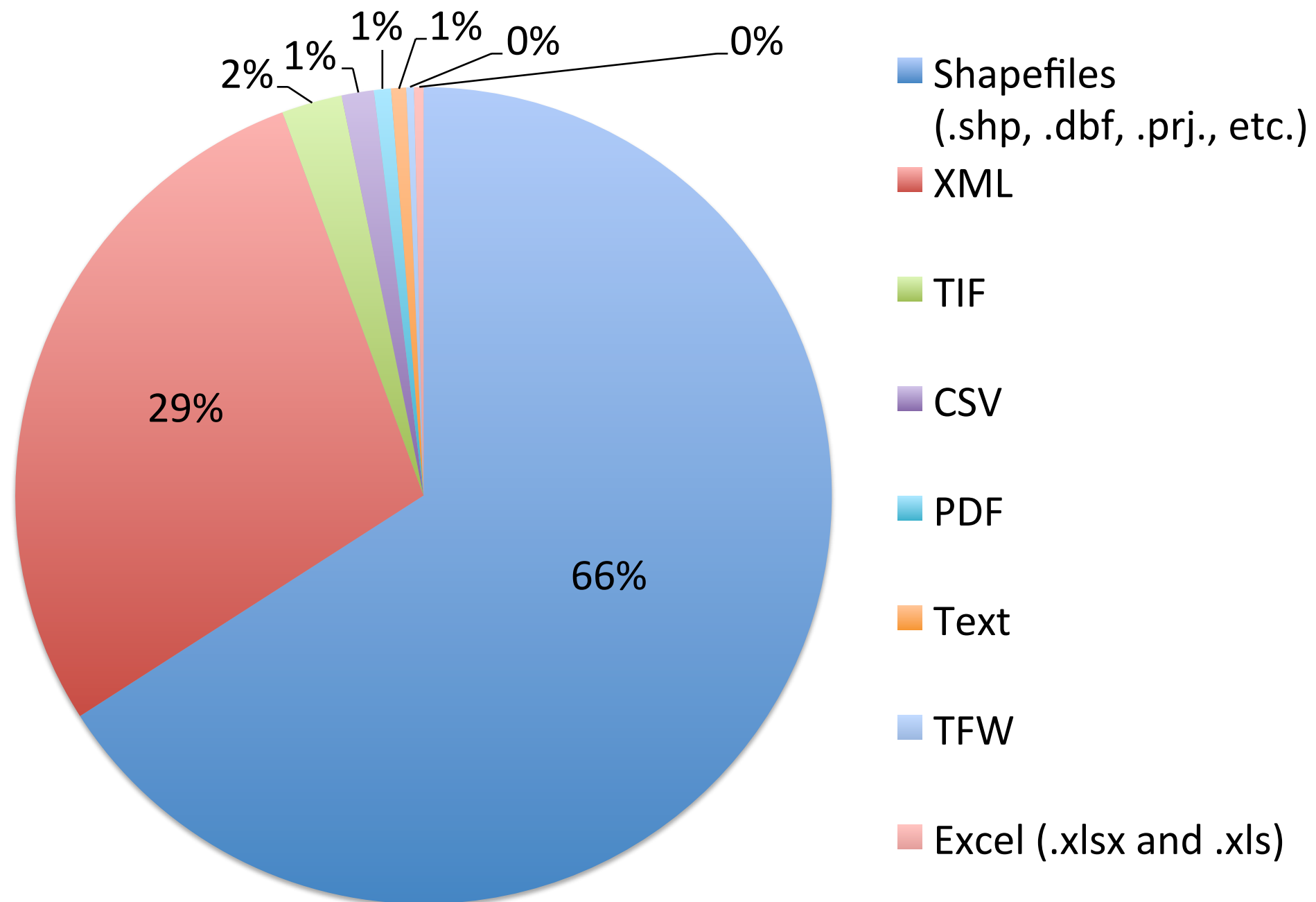
BREA Metadata and Data in the PDC

- 113 metadata records
 - 16 project-level metadata
- 49 datasets
 - 1,121 datafiles
- 10 projects are completed

Type of Data in the PDC



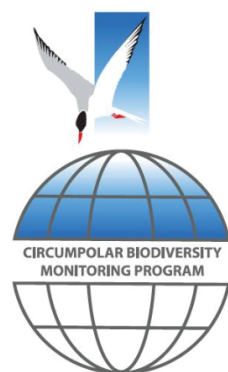
Type of Data in the PDC



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Thank you!



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pdc@uwaterloo.ca

Photo by Luke Copland