

PANGAEA

Publishing Network
for Geoscientific & Environmental Data

www.pangaea.de

Open Access library for georeferenced data

from

Basic research on earth & environment

Normalized data model

Open parameter list

Internet clients for download

Web services for distribution



Motivation

- Open Access** to scientific results
- Safeguarding ‘Good Scientific Practice’
- Added value through integration
- Reliable availability

Budapest Open Access Initiative

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The Budapest Open Access Initiative arises from a small but lively meeting convened in Budapest by the Open Society Institute (OSI) on December 1-2, 2001. The purpose of the meeting was to accelerate progress in the international effort to make research articles in all academic fields freely available on the

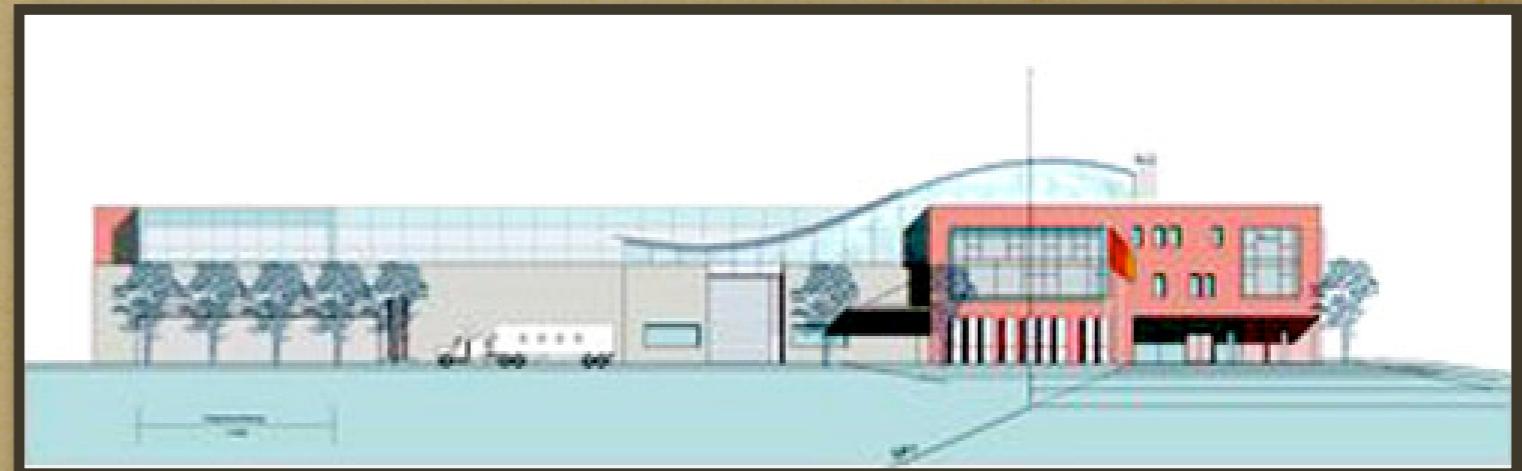
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Grants for Open Access Journals

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Operating Institutions



Center for Marine Environmental Sciences, Bremen



Alfred Wegener Institute for Polar and Marine Research
Bremerhaven

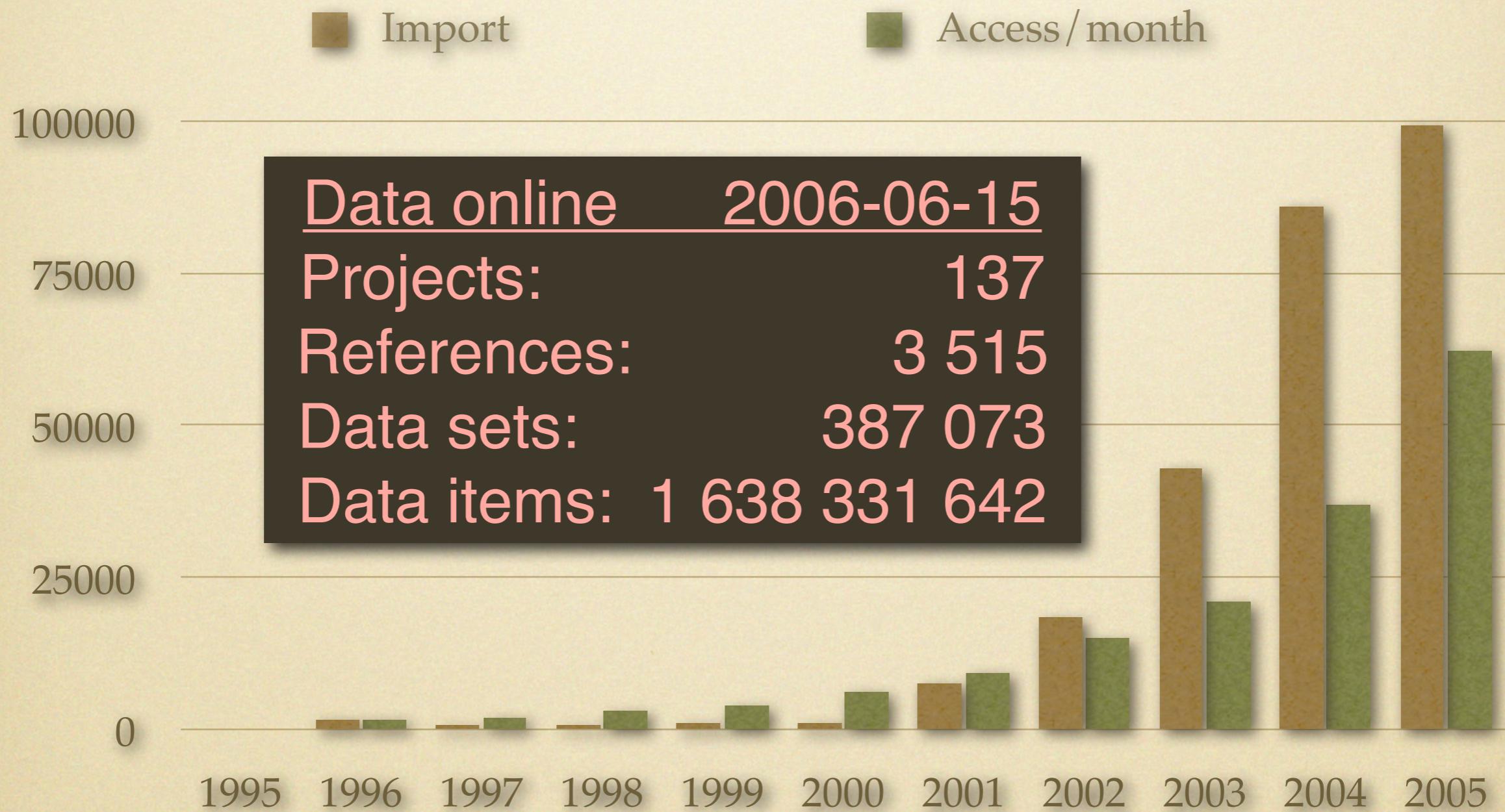


World Data Center for Marine Environmental Sciences



PANGAEA - Publishing Network for Geoscientific & Environmental Data

Data Content

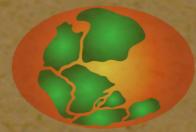
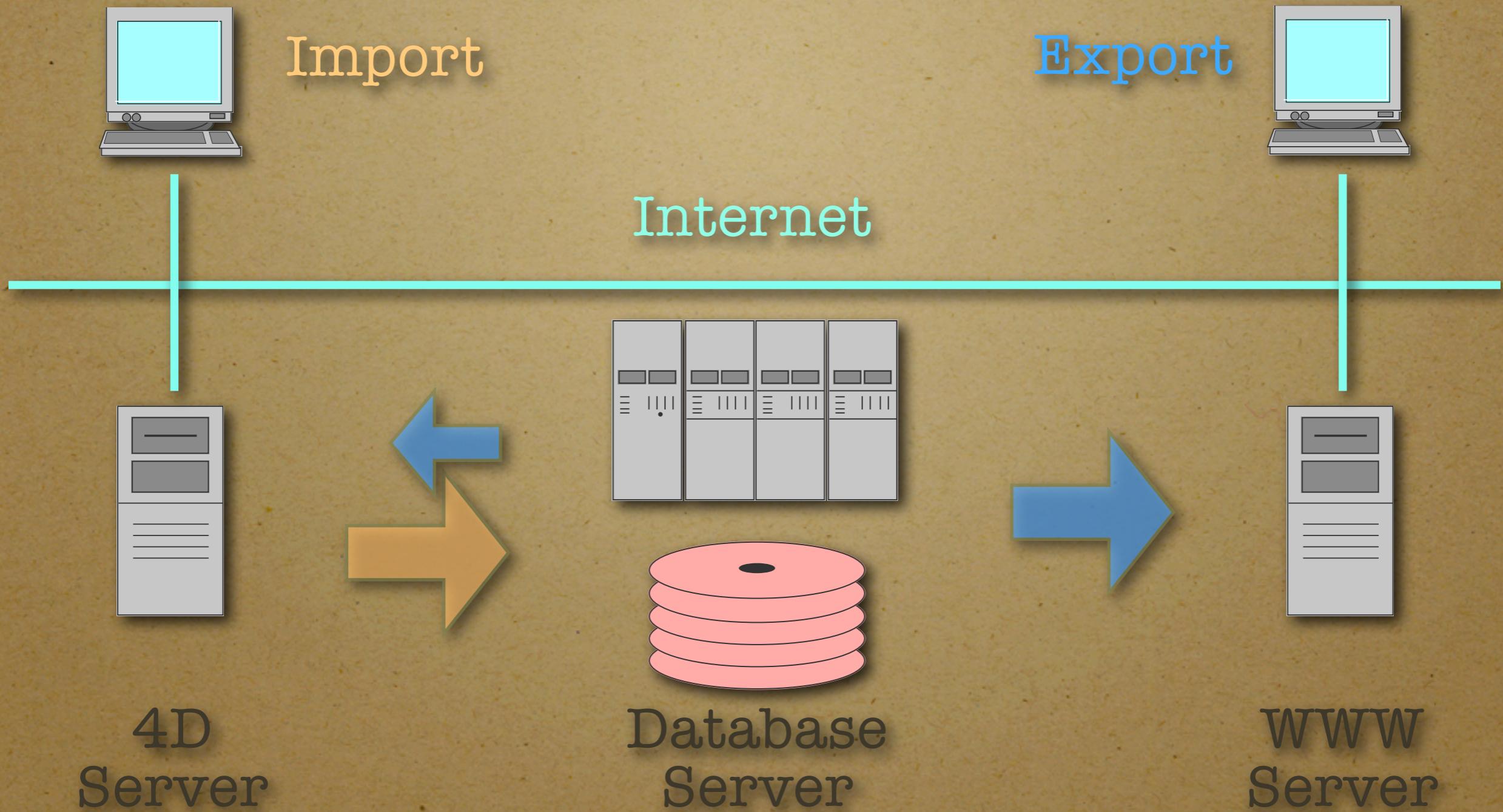


Major Projects

<u>International</u>	<u>EU</u>	<u>National</u>
IMAGES	OMARC	rcom
JGOFS	CarboOcean	SIRRO
WOCE	EurOceans	WATT
EPICA	HERMES	DEKLIM
IODP	CENSOR	DFG/BMBF



Client/server network



Geo-reference & meta-data

following ISO19115

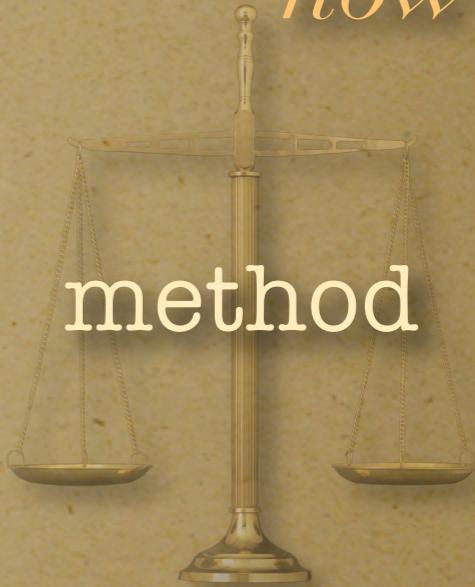
when ?



what ?



how ?



123.456 text



where ?

ice, water, air,
sediment, object...



who ?

investigator
reference



Digital Object Identifier



SCIENCE @ DIRECT

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Computers & Geosciences
Volume 28, Issue 10, December 2002, Pages 1201-1210

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PANGAEA—an information system for environmental sciences

Michael Diepenbroek^a, Hannes Grobe^b, Manfred Reinke^b, Uwe Schindler^c, Reiner Schlitzer^b, Rainer Sieger^b and Gerold Wefer^a

^a Center for Marine Environmental Sciences (MARUM), University Bremen, Bremen 28334, Germany
^b Alfred Wegener Institute for Polar and Marine Research, Bremerhaven 27515, Germany
^c Physics Department, University of Erlangen-Nuremberg, Erlangen 91058, Germany

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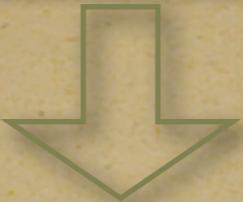
Abstract

PANGAEA is an information system for processing, long-term storage, and publication of georeferenced data related to earth science fields.



PANGAEA - Publishing Network for Geoscientific & Environmental Data

International
doi> Foundation



Registration Agency
for scientific primary data

TIB | TECHNISCHE
INFORMATIONSBIBLIOTHEK

Data library
PANGAEA

Data center B
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10.1594/PANGAEA.119754



Data Access

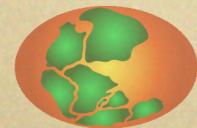
- **PangaVista** > search engine
- **ART** (Advanced Retrieval Tool) > data mining
- **PIM** (Pangaea Internet Mapper) > map view
- **DOI** (Digital Object Identifier) > persistent link
- **Web service** > exchange with portals (ISO, DC, XML)



Air photos (restricted access)



[doi:10.1594/PANGAEA.323540](https://doi.org/10.1594/PANGAEA.323540)



Sea-bed photos

Search for:
sea-bed

Show map

189 datasets found!

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1. Gutt, J (2004): Sea-bed photographs (benthos) from the Weddell Sea along ROV profile PS48/281 (©AWI, Gutt 1998)
Reference: Raguá-Gil, JM; Gutt, J; Clarke, A et al. (2004): Antarctic shallow-water mega-epibenthos: shaped by circumpolar dispersion or local conditions?, *Marine Biology*
Gutt, J; Arntz, WE; Balguerias, E et al. (2003): Diverse approaches to questions of diversity: German contributions to benthos studies around South American and Antarctica, *Gayana*
Gutt, J; Piepenburg, D (2003): Scale-dependent impacts of catastrophic disturbances by grounding icebergs on the diversity of Antarctic benthos, *Marine Ecology Progress Series*
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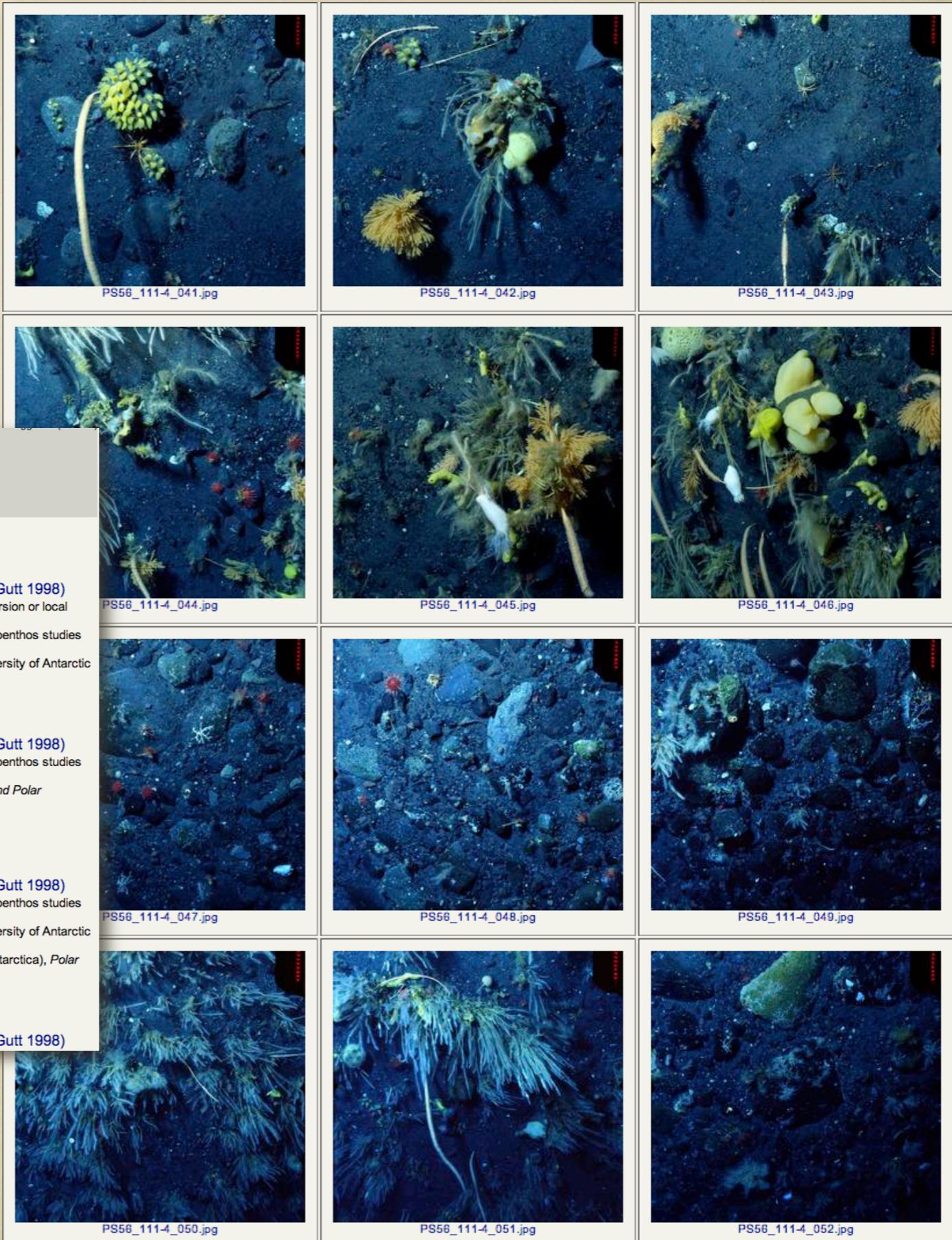
2. Gutt, J (2004): Sea-bed photographs (benthos) from the Weddell Sea along ROV profile PS48/238 (©AWI, Gutt 1998)
Reference: Gutt, J; Arntz, WE; Balguerias, E et al. (2003): Diverse approaches to questions of diversity: German contributions to benthos studies around South American and Antarctica, *Gayana*
Gutt, J (2001): High latitude antarctic benthos: a coevolution of nature conservation and ecosystem research?, *Ocean and Polar Research*
Gutt, J (2001): On the direct impact of ice on marine benthic communities, a review, *Polar Biology*
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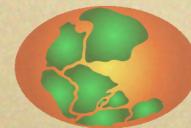
3. Gutt, J (2004): Sea-bed photographs (benthos) from the Weddell Sea along ROV profile PS48/219 (©AWI, Gutt 1998)
Reference: Gutt, J; Arntz, WE; Balguerias, E et al. (2003): Diverse approaches to questions of diversity: German contributions to benthos studies around South American and Antarctica, *Gayana*
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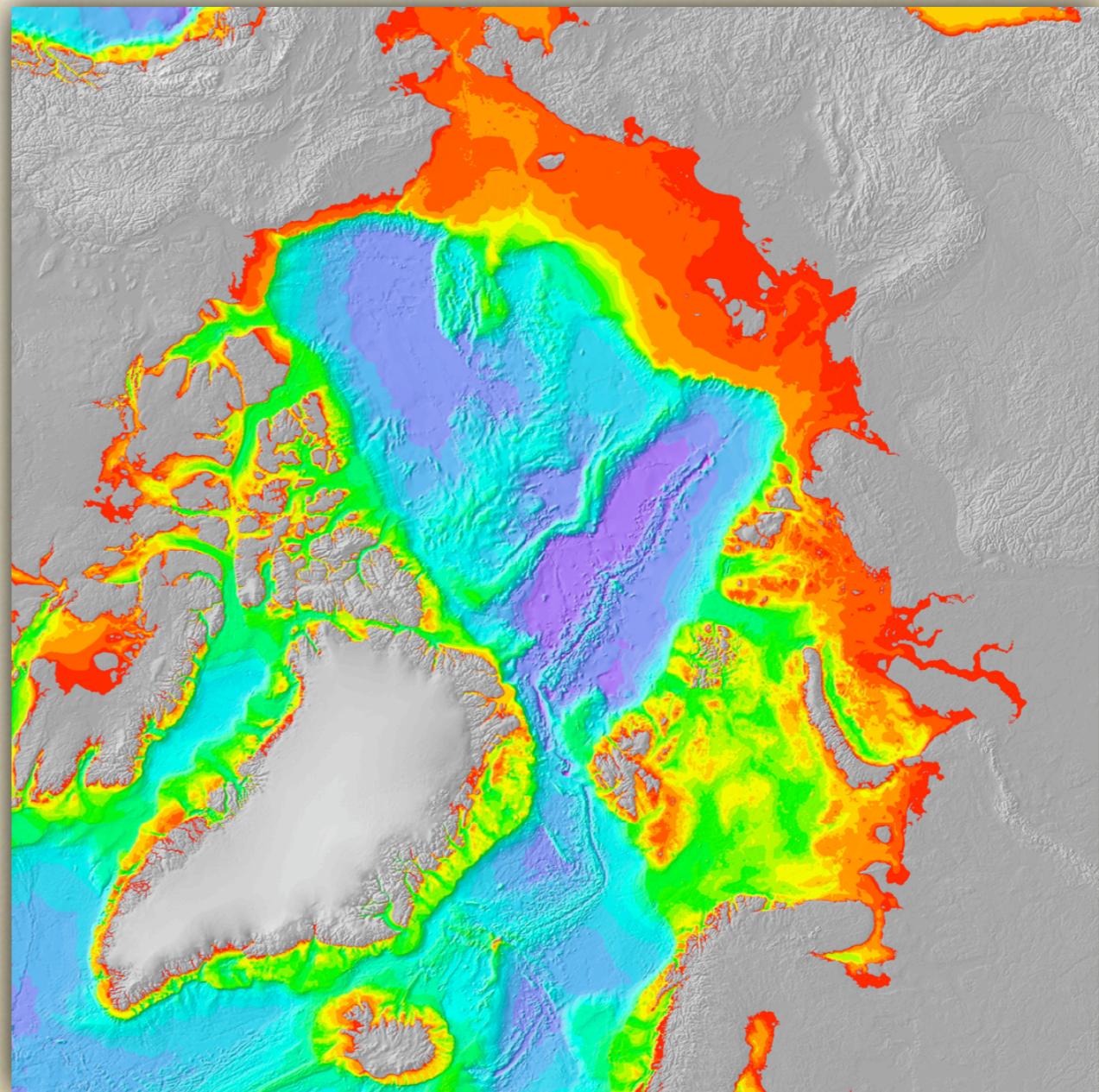
4. Gutt, J (2004): Sea-bed photographs (benthos) from the Weddell Sea along ROV profile PS48/213 (©AWI, Gutt 1998)



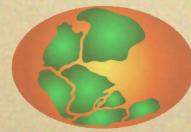
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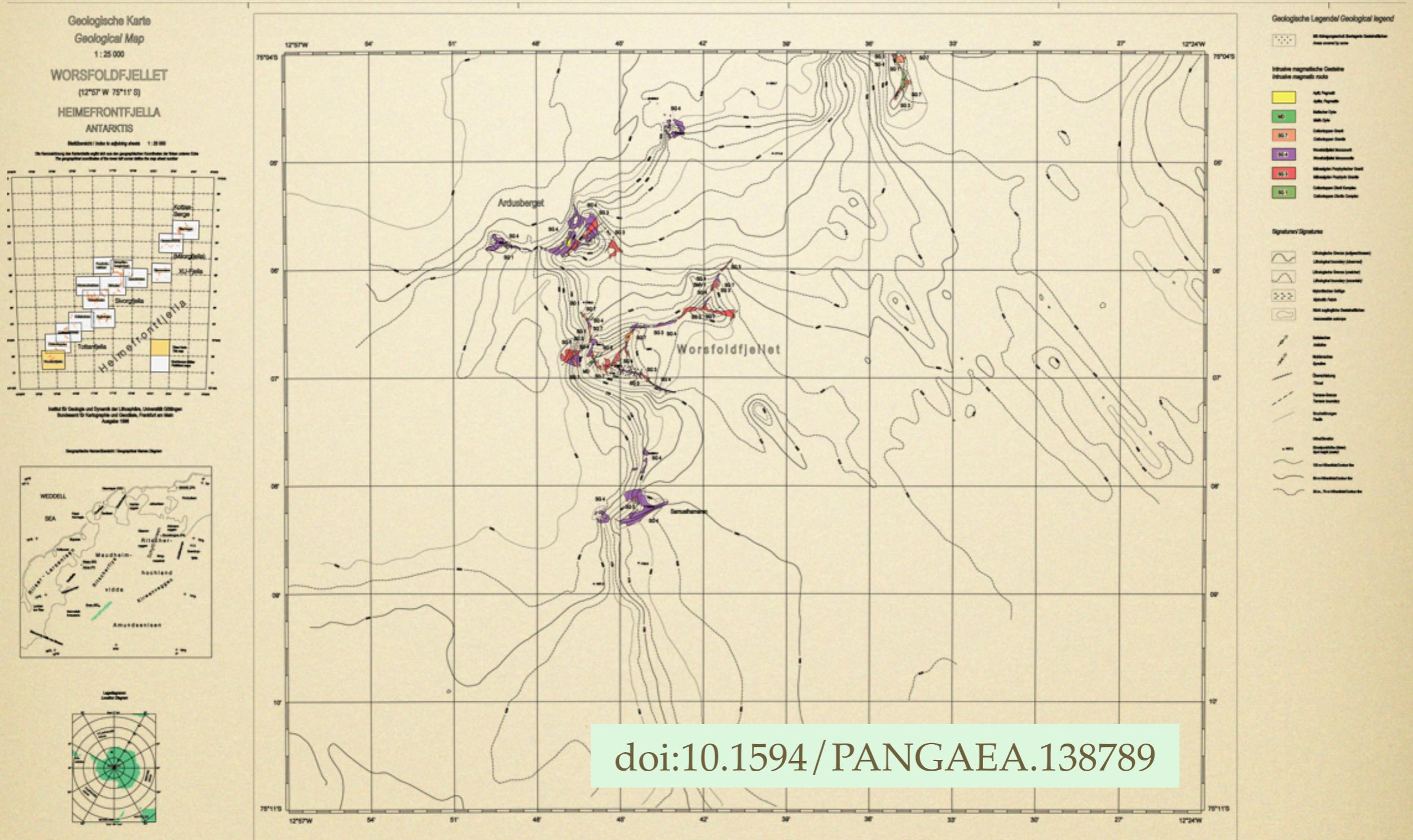
IBCAO
in
PanMap format



[doi:10.1594/PANGAEA.57822](https://doi.org/10.1594/PANGAEA.57822)



Worsfoldfjellet

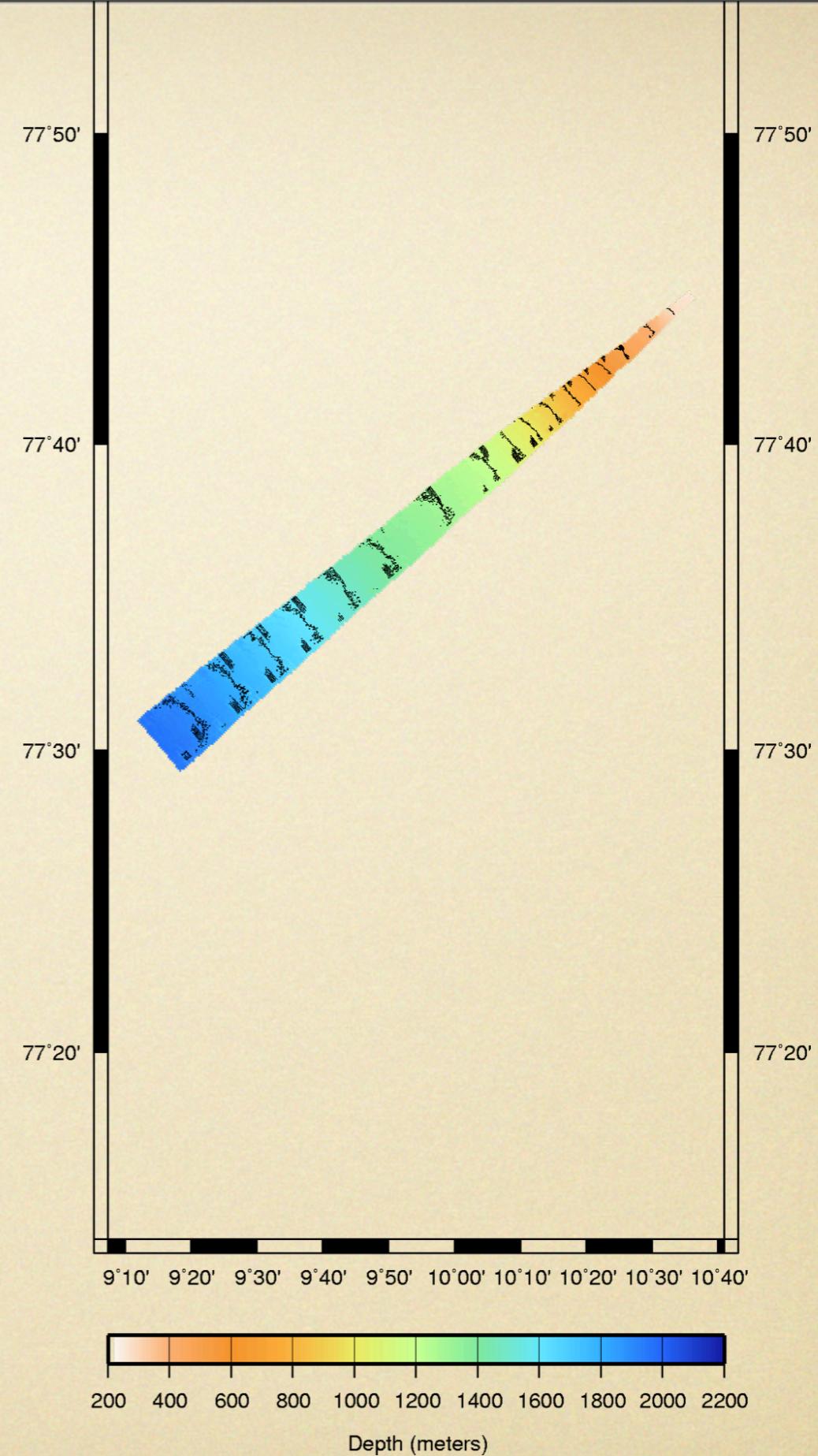


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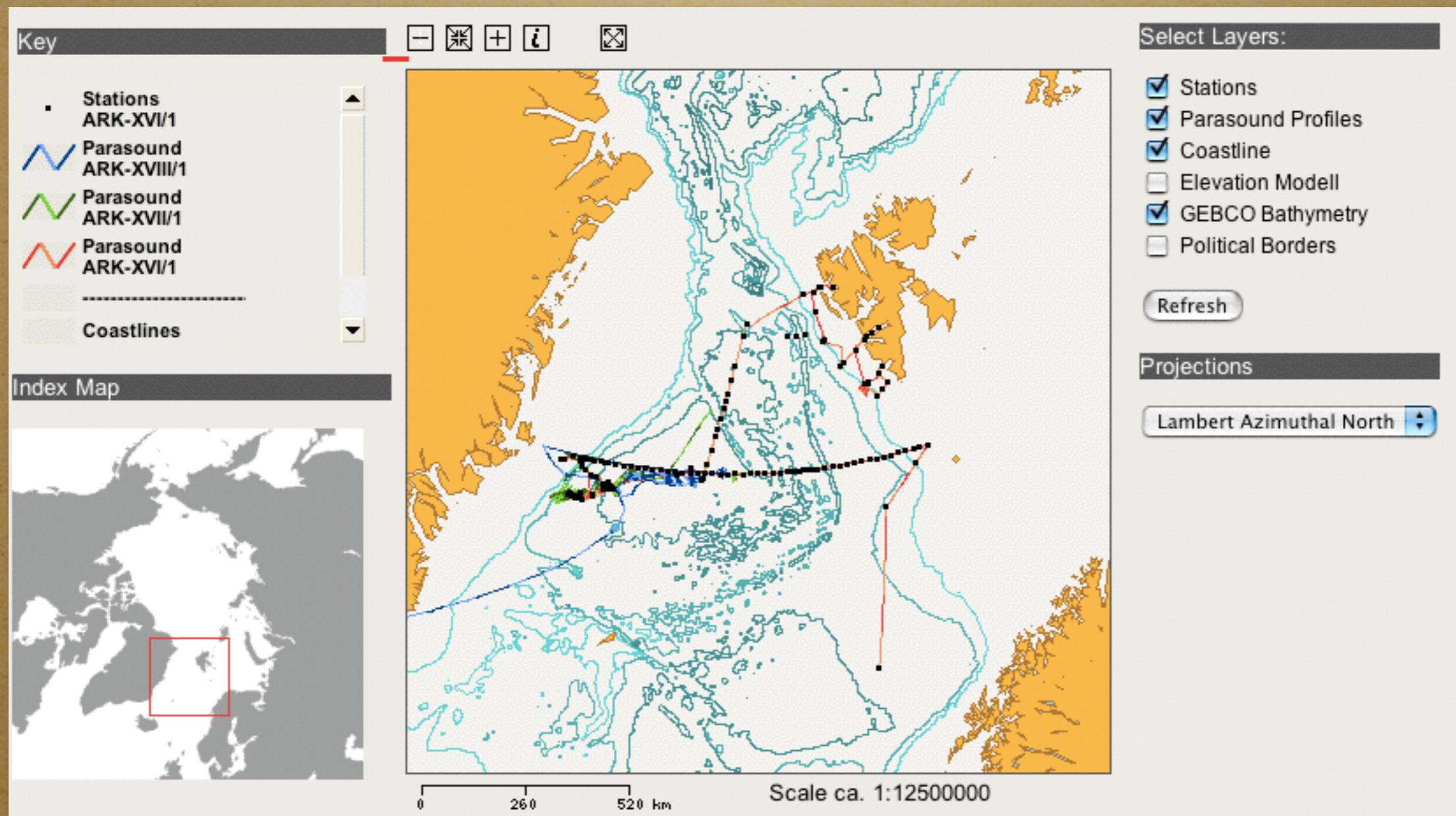
Swath sonar bathymetry



[doi:10.1594/PANGAEA.351142](https://doi.org/10.1594/PANGAEA.351142)



Pangaea Internet Mapper



Contact

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This presentation is available at doi:10.1594/pangaea.351396