

The German **National Antarctic Data Center**



Manfred Reinke¹, Michael Diepenbroek², Hannes Grobe¹ ¹Alfred Wegener Institute for Polar and Marine Research (AWI), Bremerhaven ²Center for Marine Environmental Research (MARUM), Bremen

The German NADC is responsible for co-ordinating Antarctic data management within the Germany, and provides the national focal point for the ADDS

Organisation

Using the ICSU World Data Centre (WDC) MARE with it's Pangaea system as a framework for the NADC Germany (http://www.wdc-mare.org)

Status

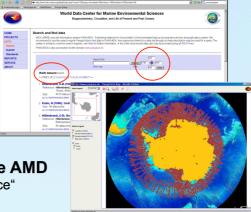
35,435 data sets from Antarctica (1 Jul 2006)

Function

- •Getting data and metadata from scientists and
- •making them available under the terms of reference of a WDC.
- •Integrating Pangaea into the international frameworks of AMD and GCMD and into
- •other meta data and data systems.







TechnologyA Web service is a softwa identified by a URI, whose

Technology for an interface to the AMD

W3C web services with a "Standard Interface"

- •ISO standards ISO 19115 and ISO 19139
- •DIF

 OAI Protocol for Metadata Harvesting (OAI-PMH) (http://ws.pangaea.de/oai/)

Interface Examples

- •Pangaea as part of the geo-spatial metadata information system (GeoMIS.Bund®) of the Federal Government
- Carboocean Portal (http://www.carboocean.org)

Challenges

- •ISO standard 19139 (XML Display) only in draft version
- •Slow international co-operation for development of standards of web services

Questions

- •Granularity of metadata (solution in co-operation with GCMD)
- •Scientific workflow (increase the delivery of scientific data):
 - From science plan to scientific data archives
 - Publication and citation of scientific primary data (http://www.std-doi.de)
- •Distributed versus central metadata/data systems

