

PANGAEA



an Information System for Geosciences



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georeferenced in time and space.Data are accessible on the Internetwith different clients.

digital library for data which can be

Client-Server Network for the exchange (import/export) of data via the Internet

Sea-bed images of benthos from the Weddell Sea along ROV profile PS48/287 DataSet label: Gutt, J (1998): Sea-bed images, benthos, from the Antarctic, Weddell Sea during POLARSTERN Reference: expedition ANT-XV/3, Alfred Wegener Institute for Polar and Marine Research, Benthic Ecosystems, Bremerhaven Arntz, W; Gutt, J (1999): The expedition ANTARKTIS XV/3 (EASIZ II) of RV Polarstern in 1998, Reports on Polar Research, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven 301: 229 pp - http://www.awi-bremerhaven.de/BIB/BerPolarforsch/BerPolarforsch1999301.pdf Archive of Underwater Imaging (AUI) Project: Ecology of the Antarctic Sea Ice Zone (EASIZ) Location: Southeastern Weddell Sea shelf Event: PS48/287 * LATITUDE: -71.0038 * LONGITUDE: -12.0042 * ELEVATION: -269.0 * DATETIME: 3 Mar 1998 00:30:00 * GEAR: Remote operated vehicle, sprint 103 * CAMPAIGN: ANT-XV/3 Data points: URL - Universal resource locator/Link to file * PI: Gutt Parameter: PI: Gutt, Julian, e-mail: jgutt@awi-bremerhaven.de, url: http://www.awi-bremerhaven.de/People/show? DataSet comment: text for comments, e.g. details of method and processing PANGAEA - DataSet ID: 123014 Source: Data details: link to file for documentation 38 files found << PREV | 1 | 2 | NEXT >> Download all



The **PangaVista** search engine is provided to search for data by author, project, parameter or any other given keyword

ART - the Advanced Retrieval Tool - designed for mining in comprehensive data collections, archived in a consistent format





Example from Biology Archive of underwater imaging consists of georeferenced fotos from the sea floor of the Antarctic Ocean

Data Description

Data Set label: Sommer's et al 2000/14

Reference:
Sommer, S; Wagenbach, D; Mulvaney, R & Fischer, H (2000): Glacio-chemical study spanning the past 2 kyr on three ice cores from Dronning Maud Land, Antarctica 2. Seasonally resolved chemical records, Journal of Geophysical Research, 105(24): 29423-29423.

Sommer, S; Appenzeller, C; Röthlisberger, R; Hutterli, M A; Stauffer, B; Wagenbach, D; Oerter, H; Wilhelms, F; Miller, H & Mulvaney, R (2000): Glacio-chemical study spanning the past 2 kyr on three ice cores from Dronning Maud Land, Antarctica 1. Annually resolved accumulation rates, Journal of Geophysical Research, 105(24): 29411-29421

Project:
European Project for Ice Coring in Antarctica (EPICA)

Location:
Dronning Maud Land

Event:
DML15098, 14 * LATITUDE: -75.0837 * LONGITUDE: 2.5010 * ELEVATION: 2970.0 * DATETIME: 14 Jan 1998 00:00:00 * COMMENT: DML15 * GEAR: ice drill * CAMPAIGN: EPICA_DML3

Data points:
7746

Parameter:
Age is (yr AD) * PI: Sommer * METHOD: Continuously operated spectrometric Cond electrol ice - Conductivity, electrolytical in ice [myS/cm] * PI: Sommer * METHOD: Continuously operated spectrometric NH4 - Ammonium [ppb] * PI: Sommer * METHOD: Continuously operated spectrometric NH4 - Ammonium [ppb] * PI: Sommer * METHOD: Continuously operated spectrometric NH4 - Ammonium [ppb] * PI: Sommer * METHOD: Continuously operated spectrometric NH4 - Ammonium [ppb] * PI: Sommer * METHOD: Continuously operated spectrometric NH4 - Ammonium [ppb] * PI: Sommer * METHOD: Continuously operated spectrometric NH4 - Ammonium [ppb] * PI: Sommer * METHOD: Continuously operated spectrometric NH4 - Ammonium [ppb]



Data description - Download dataset as tab-delimited text - View dataset as BarrettPJ et al 1998/Core box images of sediment core CF Reference: Barrett, P J; Fielding, C & Wise, S W (1998): Initial report on CRP-1, Cape F Data points: 0 Data description - Download



Example from Geology

Chemical, sedimentological, physical and paleontological data of sediment cores from the Cape Roberts Project

The **PANGAEA Internet Mapper** can be used for the retrieval and download of georeferenced data

Example from Oceanography

Hydrographic Atlas of the Southern Ocean consists of 38814 single profiles (Olbers et al., 1992)



With PANGAEA the AWI as a member of the Helmholtz Association and MARUM at the University of Bremen provide a large-scale infrastructure to the scientific community in cooperation with national and international partners and projects funded by BMBF, DFG and DG Research of the European Comission.

AWI and MARUM are operating the World Data Center for Marine Environmental Sciences (WDC-MARE), which uses PANGAEA as its information system.

Scientists and projects are encouraged to contribute with data to PANGAEA.

International Reference Projects contributing with scientific primary data to PANGAEA

Cape Roberts Project (CRP) Joint Global Ocean Flux Studies (JGOFS) The Iron Enrichment Experiments (EISENEX) European Project for Ice Coring in Antarctica (EPICA) International Marine Global Change Study (IMAGES) Research Center Ocean Margins (RCOM)



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