



ACCESSING THE GEOTRACES INTERMEDIATE DATA PRODUCT 2021

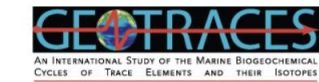
Reiner Schlitzer

Alfred Wegener Institute



ACCESS THE IDP2021

www.geotraces.org



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GEOTRACES

An International Study of
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2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

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- Bulk Data Download
- Subset Data Download (WebODV Extractor)
- Data Exploration (WebODV Explorer)
- eGeotraces Atlas
- IDP2017 References
- IDP2014 References
- IDP related helpful tools

Building IDP

- How to ensure that your data are in IDP - FLOW CHART!
- GEOTRACES DOoR
- Submit data
- Data Policy
- IDP2021 Fair Use Document
- Parameter Naming Conventions
- Quality Flag Policy

GEOTRACES Parameter Names

- GEOTRACES Parameter Definition Committee

Data Management

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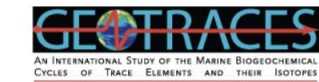
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ACCESS THE IDP2021: Reiner Schlitzer (AWI) eGEOTRACES ATLAS

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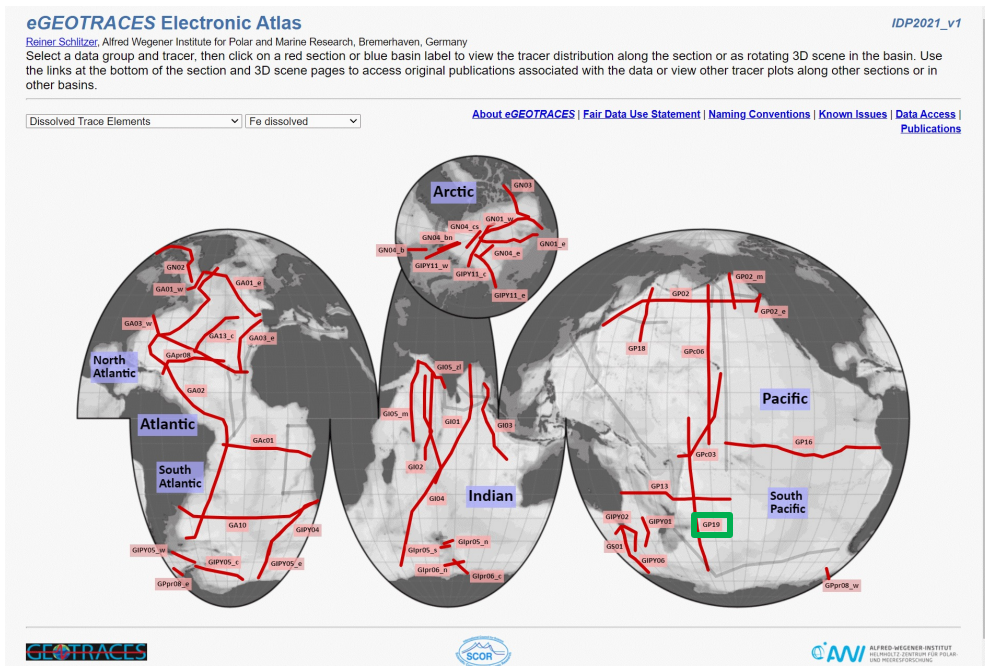
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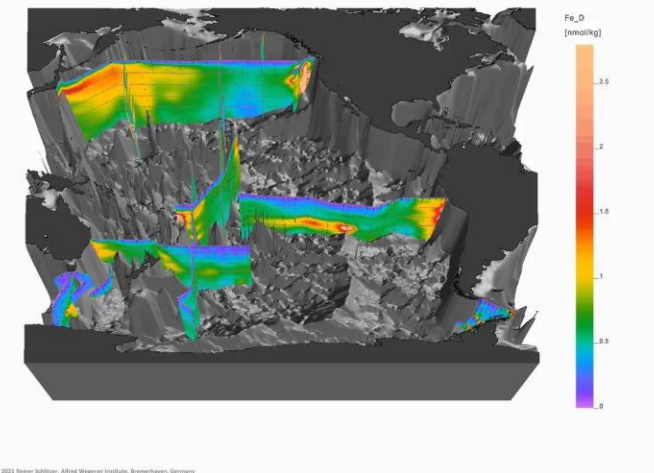
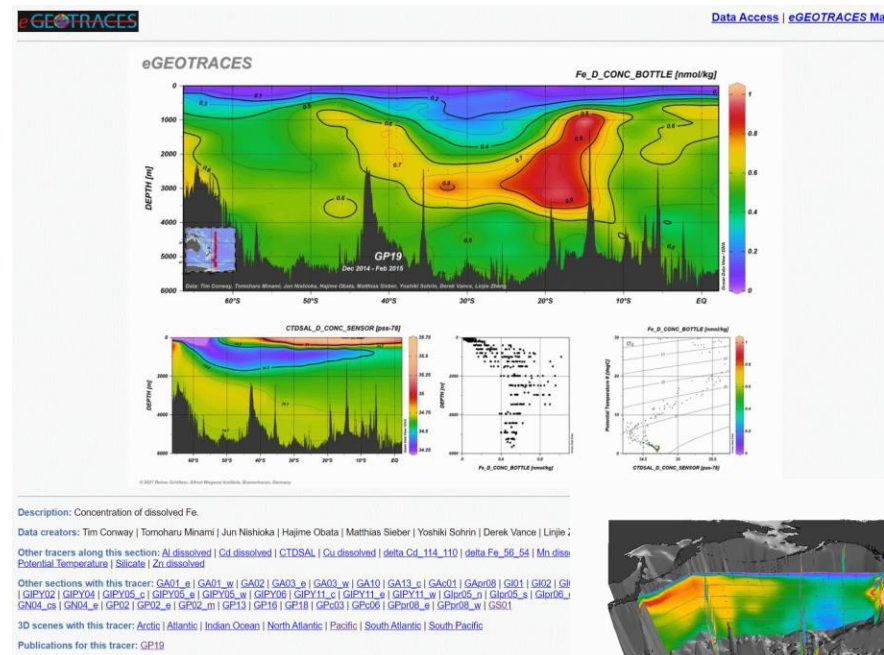


eGEOTRACES ATLAS

<https://egeotrac.es.org/>



1463 sections
269 3D scenes



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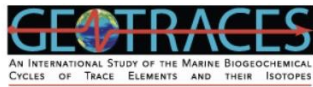
IDP2021 DATA ACCESS

- 1 Bulk (full packages) download
- 2 Online subsetting and extraction
- 3 Online analysis and visualization

New: Agreement to the **IDP2021 Fair Data Use Statement** is required, but registration and login are no longer necessary.

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IDP2021 BULK DOWNLOAD



GEOTRACES Intermediate Data Product 2021 (Version 1)

The GEOTRACES Intermediate Data Product 2021 (IDP2021) is released on 17 November 2021. The IDP2021 represents a major new data release. Compared to IDP2017, IDP2021 improves data coverage significantly in all ocean basins, especially in the Arctic, the Indian and the Pacific Oceans. Overall, the new data product contains more than twice the number of cruises, stations and actual data values.

IDP2021 is, open access data sets, licensed under a Creative Commons Attribution 4.0 International license. Please, read the [Fair Data Use Statement for GEOTRACES IDP2021](#) before using IDP2021.

The original versions of the IDP2021 digital datasets can be accessed from the links below - please use the **current version** of the digital datasets for any current research.

The GEOTRACES IDP2021 consists of two parts:

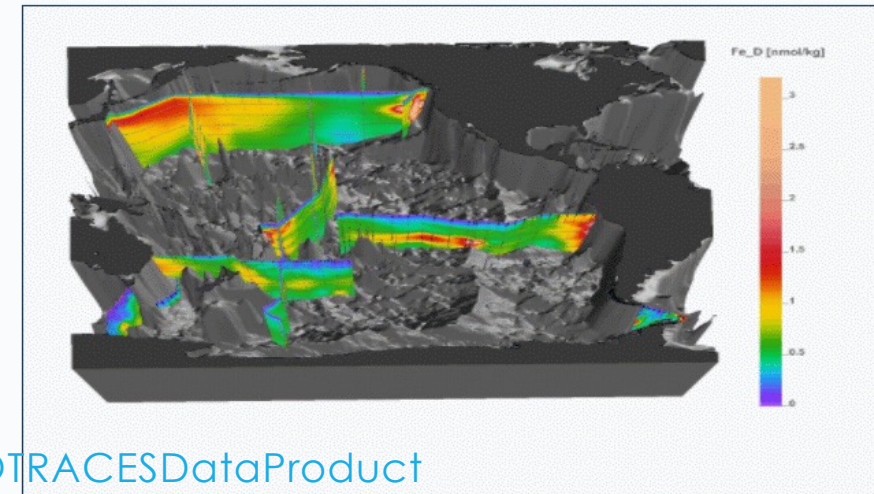
1. the digital datasets — available for download below or as a subset via the [online service](#) hosted by the Alfred Wegener Institute (AWI).
2. the **eGEOTRACES Electronic Atlas** — is based on the digital data package and provides section plots (as illustrated below) and animated 3D scenes for many of the parameters. The 3D scenes provide geographical context, which is crucial for correctly assessing extent and origin of tracer plumes as well as for inferring processes acting on the tracers and shaping their distribution.

IDP2021 digital datasets (original version)

The IDP2021 digital datasets are made available to **DOWNLOAD** by the GEOTRACES International Data Assembly Centre hosted by the British Oceanographic Data Centre (BODC). They are provided in 3 data formats: ASCII, NetCDF and ODV collections. The latter is for use with the [Ocean Data View software](#).

If the data sets are used in a presentation or publication then we ask that you acknowledge the source. This should be of the form: GEOTRACES Intermediate Data Product Group (2021). The GEOTRACES Intermediate Data Product 2021 (IDP2021). NERC EDS British Oceanographic Data Centre NOC. [doi:10.5285/cf2d9ba9-d51d-3b7c-e053-8486abc0f5fd](https://doi.org/10.5285/cf2d9ba9-d51d-3b7c-e053-8486abc0f5fd).

Please help us to improve the Intermediate Data Product by [sending us](#) your feedback.



www.bodc.ac.uk/geotraces/data/idp2021/

Five Packages:

Seawater Discrete Sample Data

Seawater Sensor Data

Aerosol Data

Precipitation Data

Cryosphere Data

Three Formats:

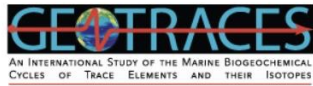
csv ASCII

netCDF

ODV collection

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IDP2021 SUBSETTING AND EXTRACTION

geotraces.webodv.awi.de/

Select:
Cruises
Domain
Time range

eGEOTRACES Publications Known Issues Privacy | Legal Notice

webODV geotraces > IDP2021 > GEOTRACES_IDP2021_Seawater_Discrete_Sample_Data_v1.odv Documentation Contact

1. Select Cruises / Domain / Time Range 2. Select variables 3. Download 4. Exit

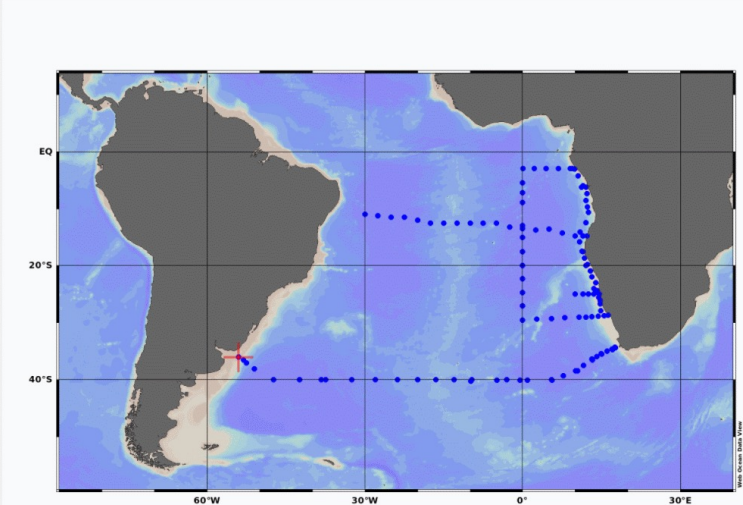
Click *Zoom in* to define a sub-region, *Apply* to select the sub-region, or *Zoom out* to return to full domain. Select *Time Range* in the format mm/dd/yyyy.

CRUISES
3 Items selected

MAP DOMAIN
Zoom mode Zoom out
Full range Global

TIME RANGE
from: 01/01/1850
to: 12/31/2023

RESET
PAGE GLOBAL



SELECTION STATUS
Stations: 118 of 3149
Output variables: 8 of 348

EXPORT IMAGE
Download

DATA PREVIEW
Scatter plot

SELECTED VARIABLES (OR)
CTDPRS_T_VALUE
DEPTH
CTDTMP_T_VALUE
CTDSAL_D_CONC
SALINITY_D_CONC
Al_D_CONC
Ba_D_CONC
Fe_D_CONC

STATION INFO

Accession Number	745
Cruise	GA10
Station	24 (B)
Longitude	54°W
Latitude	36°S
Date	26 January 2012

IDP2021 SUBSETTING AND EXTRACTION

geotraces.webodv.awi.de/

Select:

Variables (entire groups or individual entries)

The screenshot displays the webODV interface for geotraces, specifically for the IDP2021 dataset. The interface is divided into several sections:

- Navigation Bar:** Includes links for eGEOTRACES, Publications, Known Issues, Privacy, and Legal Notice. The current path is "webODV > geotraces > IDP2021 > GEOTRACES_IDP2021_Seawater_Discrete_Sample_Data_v1.odv".
- Progress Indicator:** Shows four steps: "1. Select Cruises / Domain / Time Range", "2. Select variables" (current step), "3. Download", and "4. Exit".
- Logic:** Options for "OR" (selected) and "AND".
- Treeview:** Buttons for "Collapse all", "Expand all", "Check all", and "Uncheck all".
- Reset:** A "Global" button.
- Variables:** A map showing the study area and a search bar. The variable list includes:
 - Seawater-Hydrography and Inert Gases
 - Seawater-Biogeochemistry
 - Seawater-Nutrient and Water Isotopes
 - Seawater-Dissolved, total dissolvable and total trace elements
 - Al_D_CONC
 - Ba_D_CONC
 - Cd_D_CONC
 - Co_D_CONC
 - Cu_D_CONC
 - Fe_D_CONC
 - Fe_II_D_CONC
 - Fe_S_CONC
 - Ga_D_CONC
 - Hf_D_CONC
 - Li_D_CONC

- Selection Status:** Shows "Stations: 118 of 3149" and "Output variables: 8 of 348".
- Data Preview:** A "Scatter plot" button and a small plot showing data points.
- Selected Variables (OR):** A list of selected variables: CTDPRS_T_VALUE, DEPTH, CDTMP_T_VALUE, CTDSAL_D_CONC, SALINITY_D_CONC, Al_D_CONC, Ba_D_CONC, and Fe_D_CONC.

IDP2021 SUBSETTING AND EXTRACTION

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Select:
Output format

Receive:
Data subset as zip file

The screenshot displays the eGEO TRACES web interface. At the top, there is a navigation bar with links for 'eGEO TRACES', 'Publications', 'Known Issues', 'Privacy', and 'Legal Notice'. Below this, a breadcrumb trail shows the current path: 'webODV > geotraces > IDP2021 > GEOTRACES_IDP2021_Seawater_Discrete_Sample_Data_v1.odv'. A secondary navigation bar contains 'Documentation' and 'Contact' links.

The main content area features a progress indicator with four steps: '1. Select Cruises / Domain / Time Range', '2. Select variables', '3. Download' (which is currently active), and '4. Exit'. Below this, a text prompt reads 'Download data in different formats.'.

On the left side, there are two sections: 'DOWNLOAD' and 'RESET'. The 'DOWNLOAD' section includes three buttons: 'ASCII Spreadsheet (.txt)', 'ODV Collection (.odv)', and 'netCDF (.nc)'. The 'RESET' section includes a button labeled 'Global'.

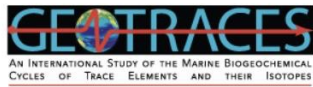
In the center, a map shows the Atlantic Ocean region from 60°W to 30°E and 0° to 40°S. A blue dotted line indicates the cruise track. The map is overlaid on a color-coded bathymetry or temperature field.

On the right side, there are three sections: 'SELECTION STATUS', 'DATA PREVIEW', and 'SELECTED VARIABLES (OR) ?'. The 'SELECTION STATUS' section shows 'Stations: 118 of 3149' and 'Output variables: 8 of 348'. The 'DATA PREVIEW' section includes a 'Scatter plot' button and a small scatter plot visualization. The 'SELECTED VARIABLES' section lists the following variables: 'CTDPRS_T_VALUE', 'DEPTH', 'CTDTMP_T_VALUE', 'CTDSAL_D_CONC', 'SALINITY_D_CONC', 'Al_D_CONC', 'Ba_D_CONC', and 'Fe_D_CONC'.

At the bottom of the page, there is a copyright notice: '© webODV 2017-2021'.

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