

GEOTRACES Intermediate Data Product 2025

GEOTRACES IDP2025

What does it include and how can it be accessed

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IDP2025 Components

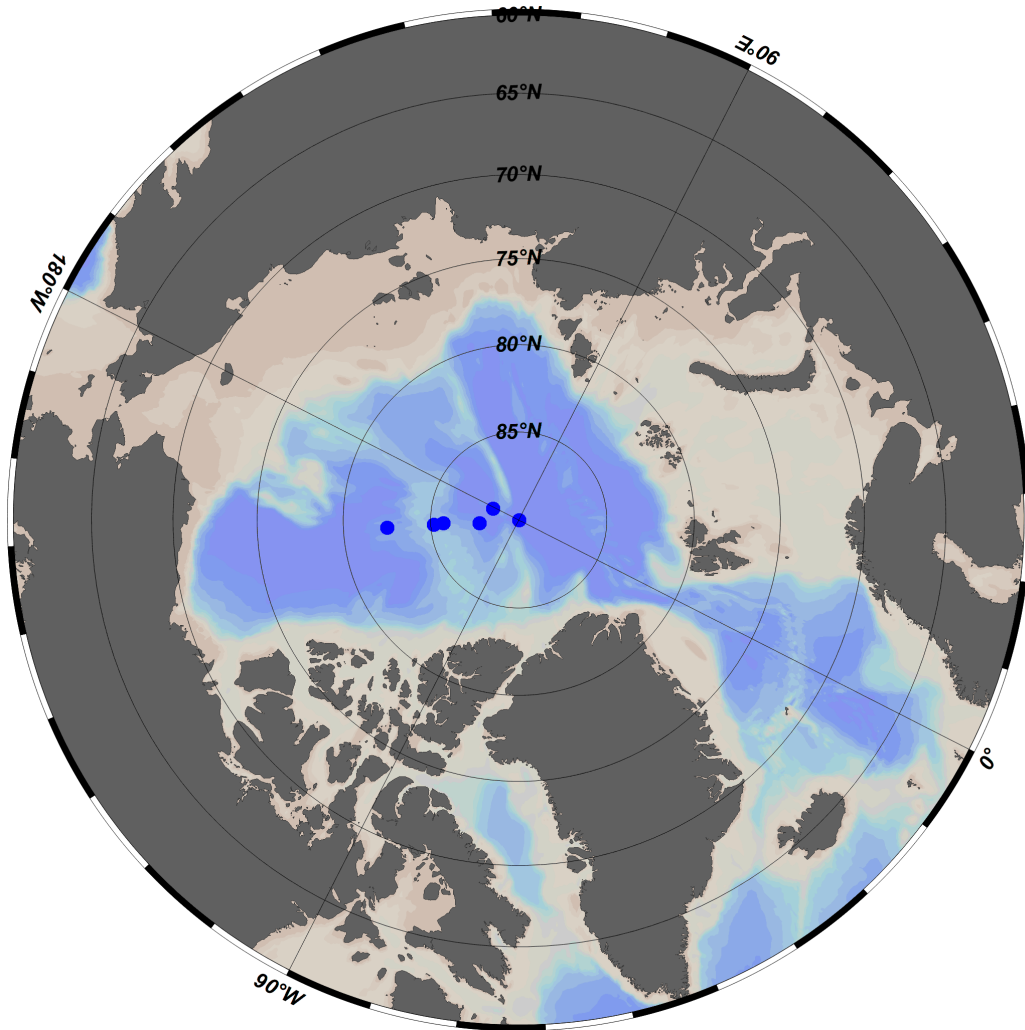
1 Digital Data

2 *eGEOTRACES* Atlas

Digital Data

- 1 **Seawater**
- 2 **Seawater Sensor**
- 3 **Aerosols**
- 4 **Precipitation**
- 5 **Cryosphere**

Cryosphere - Ice and meltpond data for 41 TEIs

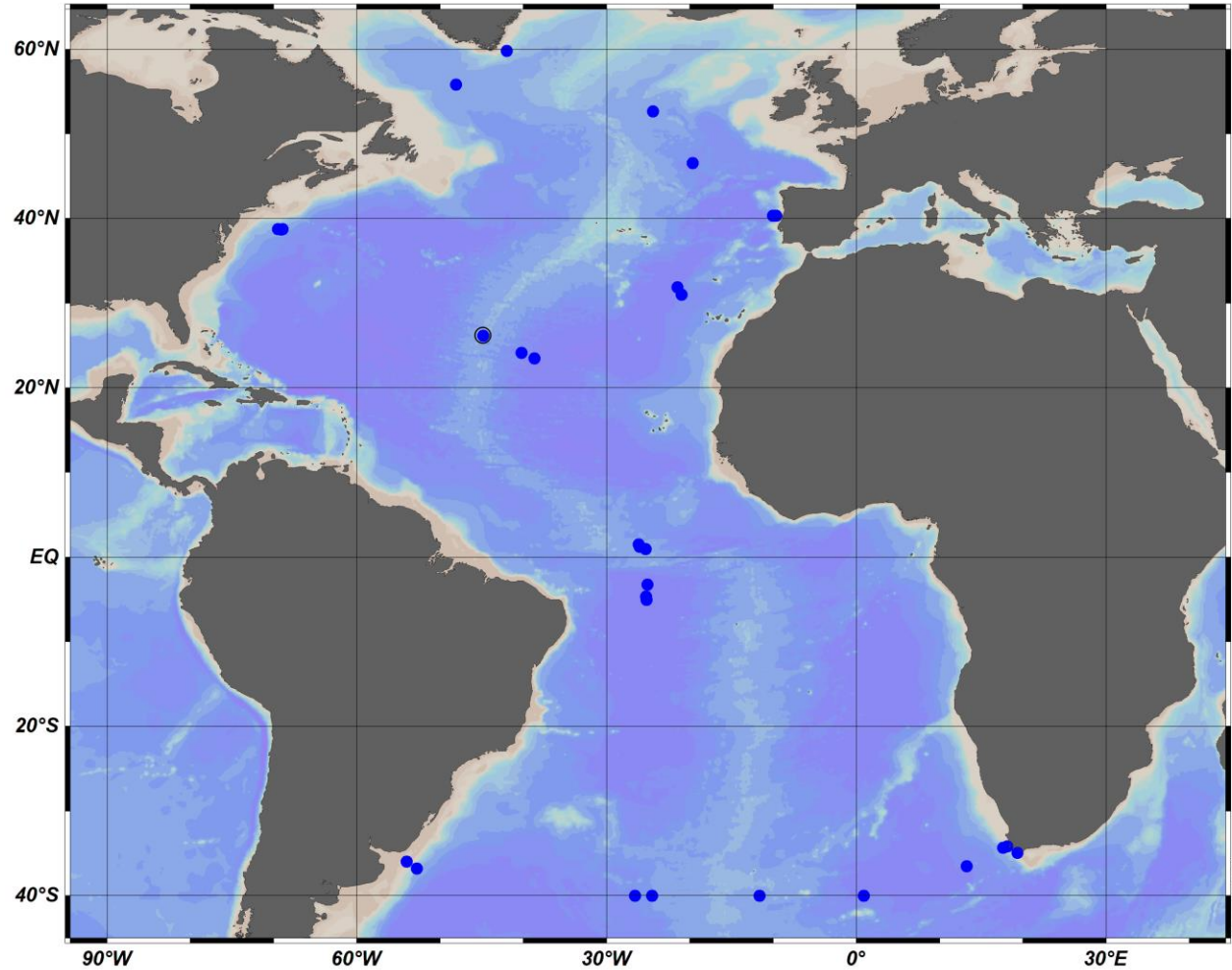


www.geotraces.org

#GEOTRACESDataProduct #IDP2025

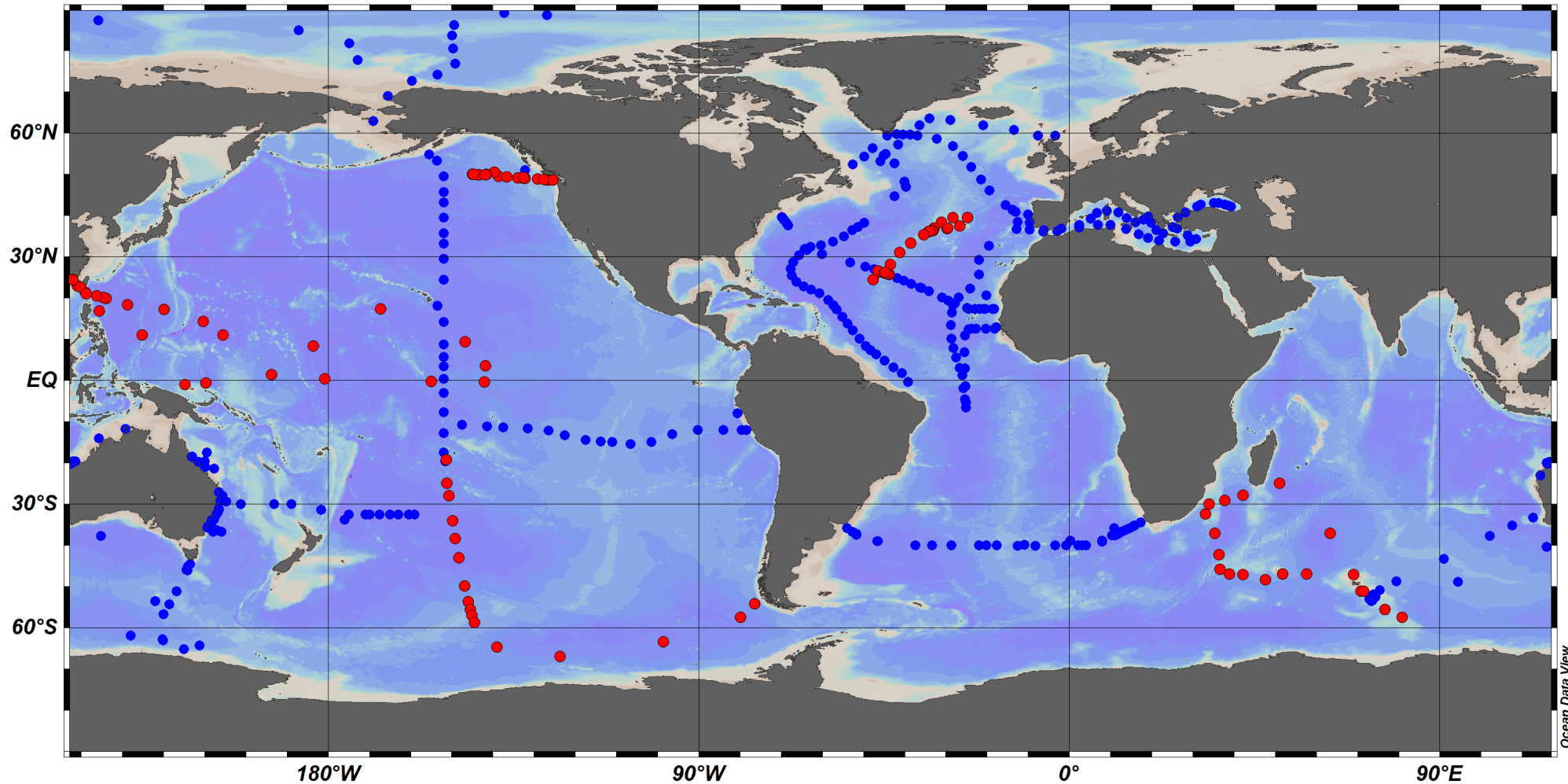
Parameters	added since IDP2021v2
Al_TPL_CONC_MELTPOND_PUMP [nmol/kg]	5
Al_TP_CONC_MELTPOND_PUMP [nmol/kg]	5
Ba_TPL_CONC_MELTPOND_PUMP [pmol/kg]	5
Ba_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Cd_TPL_CONC_MELTPOND_PUMP [pmol/kg]	5
Cd_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Ce_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Co_TPL_CONC_MELTPOND_PUMP [pmol/kg]	5
Co_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Cr_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Cu_DL_CONC_MELTPOND_PUMP [nmol/kg]	5
Cu_TPL_CONC_MELTPOND_PUMP [pmol/kg]	5
Cu_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Fe_TPL_CONC_MELTPOND_PUMP [nmol/kg]	5
Fe_TP_CONC_MELTPOND_PUMP [nmol/kg]	5
La_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Mn_TP_CONC_MELTPOND_PUMP [nmol/kg]	5
Mo_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Ni_D_CONC_MELTPOND_PUMP [nmol/kg]	5
P_TPL_CONC_MELTPOND_PUMP [nmol/kg]	5
P_TP_CONC_MELTPOND_PUMP [nmol/kg]	5
Pb_210_D_CONC_MELTPOND_PUMP [mBq/kg]	5
Pb_210_ICE_D_CONC_CORER [mBq/kg]	31
Pb_D_CONC_MELTPOND_PUMP [pmol/kg]	5
Pb_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Po_210_D_CONC_MELTPOND_PUMP [mBq/kg]	5
Po_210_ICE_D_CONC_CORER [mBq/kg]	31
Pr_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Ti_TPL_CONC_MELTPOND_PUMP [nmol/kg]	5
Ti_TP_CONC_MELTPOND_PUMP [nmol/kg]	5
V_TP_CONC_MELTPOND_PUMP [pmol/kg]	5
Zn_D_CONC_MELTPOND_PUMP [nmol/kg]	5

Precipitation – Rain and snow data for 94 TEIs



No new data

Aerosols – Data for 175 TEIs



New cruises

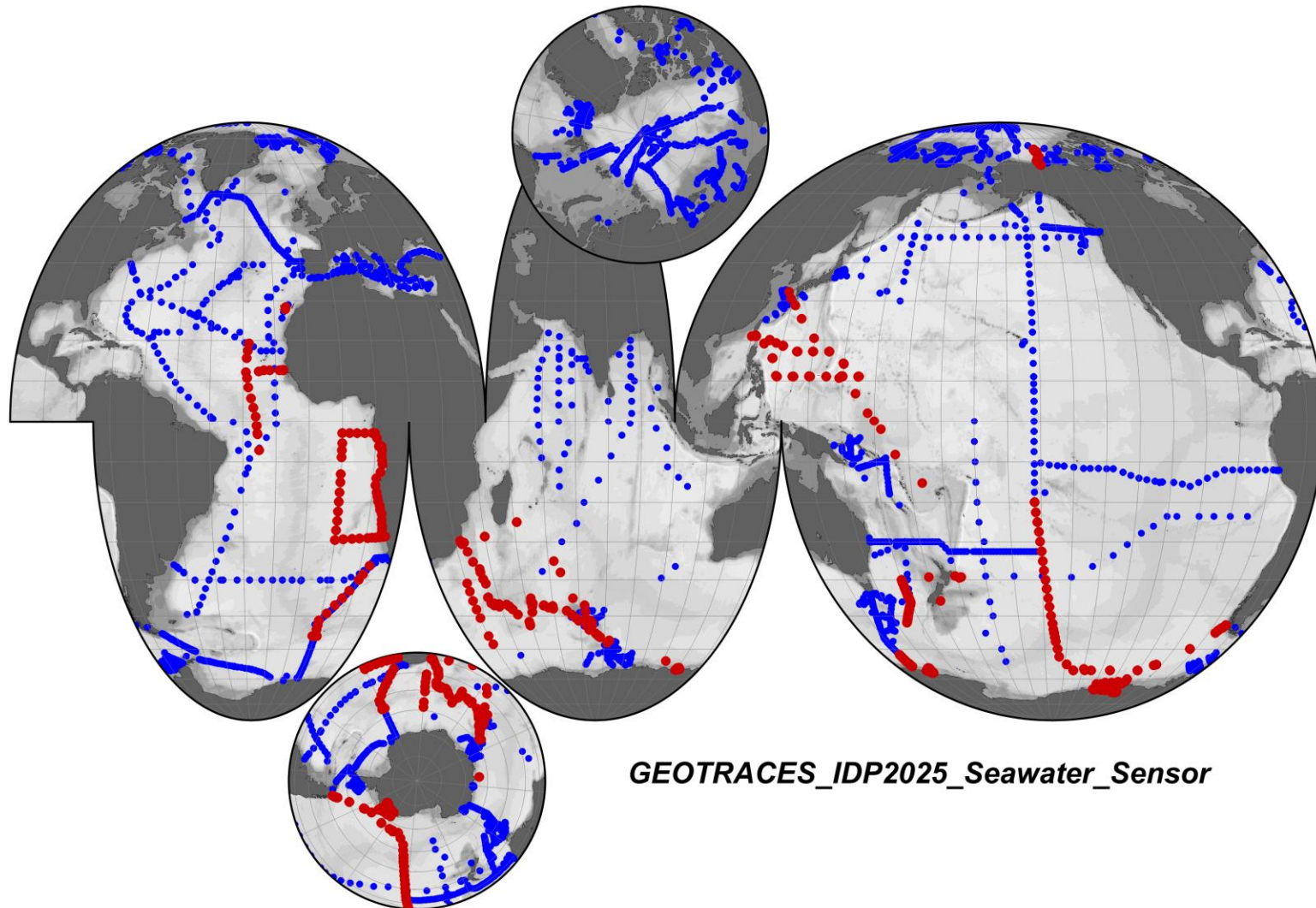
GA13	25
GP09	17
GP17	16
GPc12	10
GPpr07	18
GS02	19

Station count

437 (total)

113 (new)

Seawater Sensor – Downcast sensor data

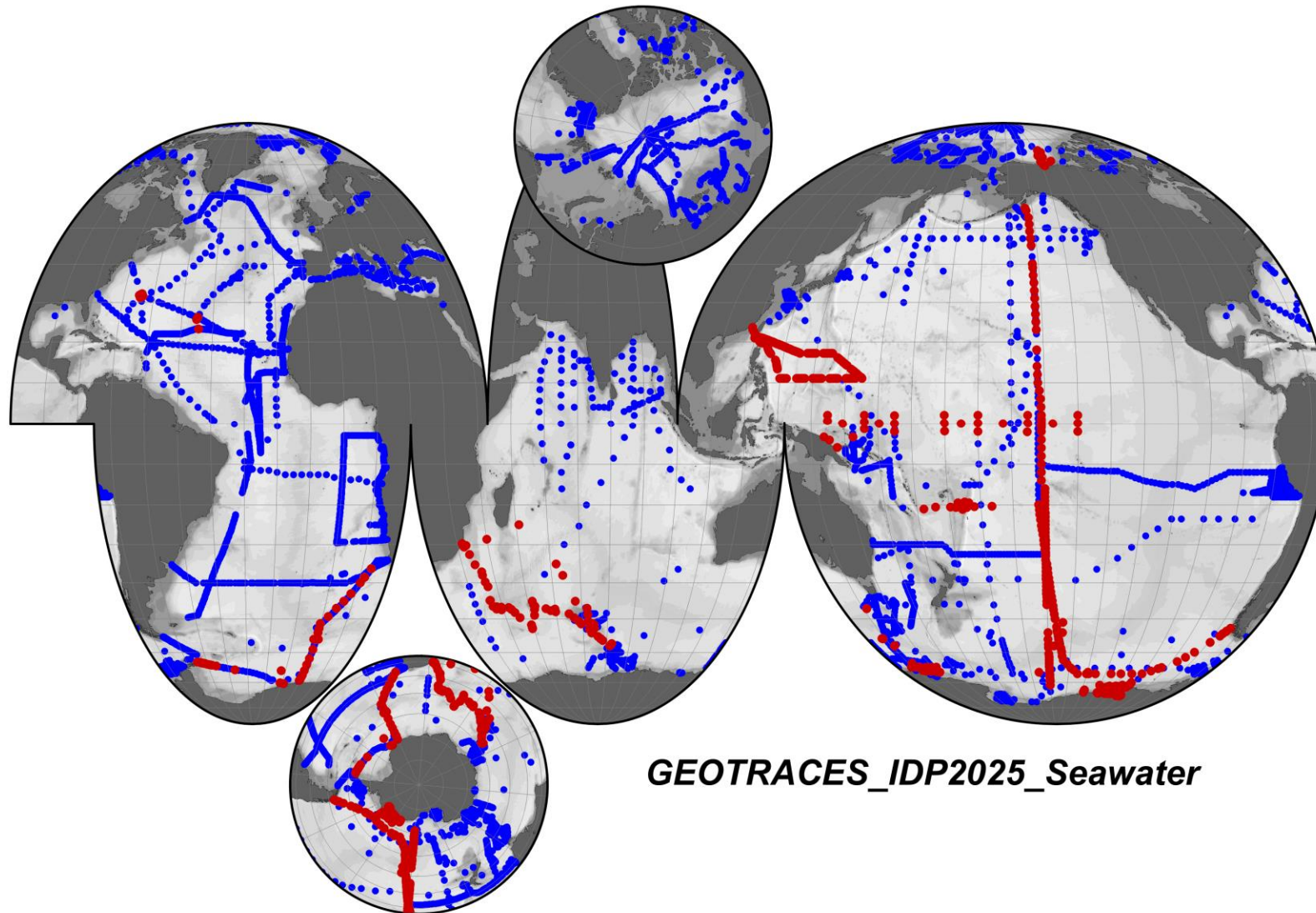


New cruises

GA06	47
GA08	142
GIPY01	51
GIPY14	45
GIpr07	7
GP09	102
GP17	127
GPpr01	3
GPpr03	160
GPpr04	12
GPpr10	1
GS02	139
GSc03	73
GSc04	32

Station count
4862 (total)
941 (new)

Seawater – Discrete sample data for 398 TEIs



New cruises

GApr01	25
GApr07	6
GApr12	22
GApr13	10
GIPY14	6
GIpr10	6
GP09	126
GP17	57
GPc10	17
GPc11	84
GPc12	43
GPc13	118
GPpr03	137
GPpr12	19
GPpr14	13
GS02	39
GSc04	21

Station count

4094 (total)

732 (new)

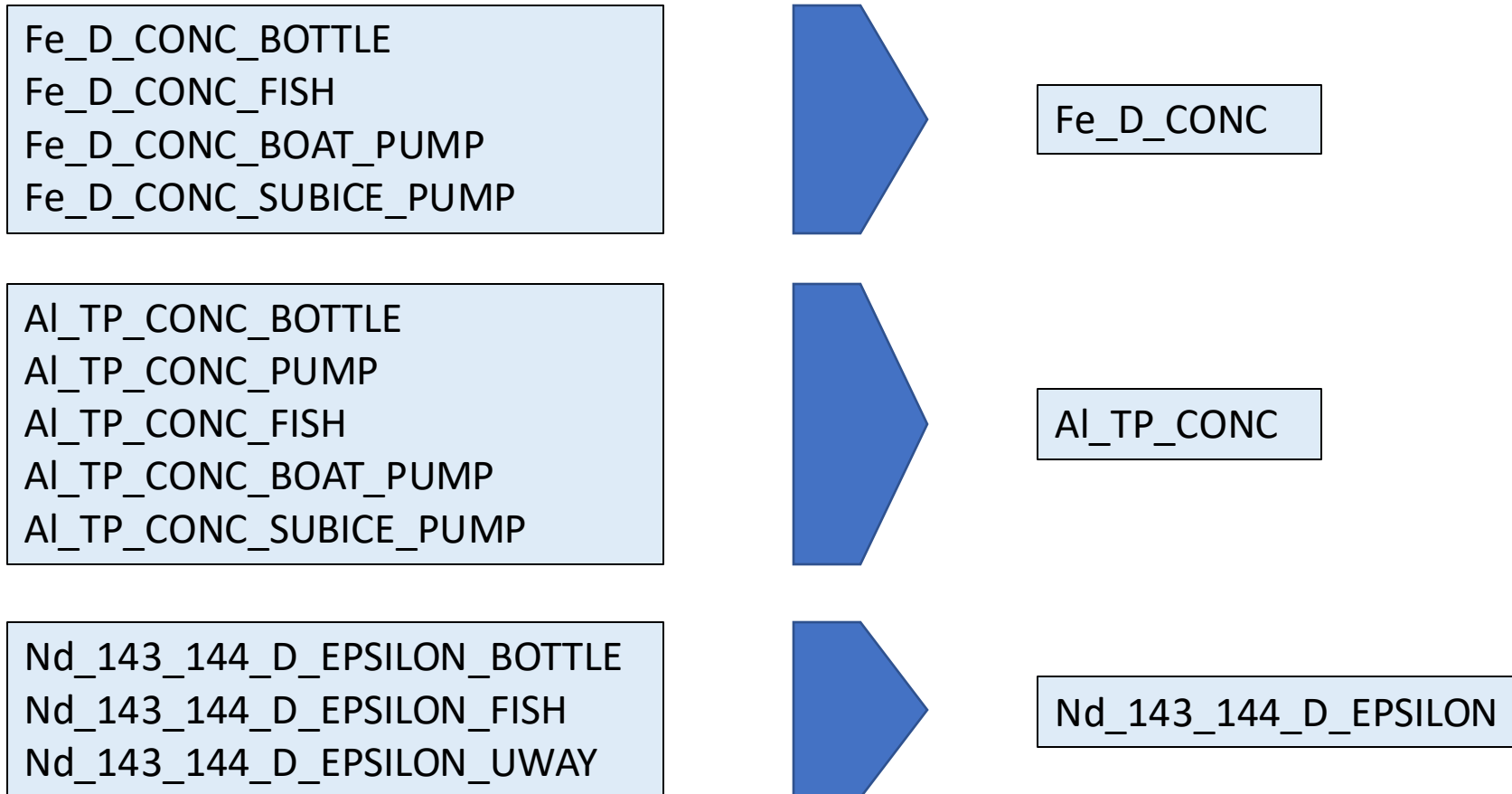
Value Counts

added since

Parameter	IDP2025	IDP2021v2
CTDPRS_UP_T_VALUE_SENSOR [dbar]	123809	18393
DEPTH [m]	123809	18393
PHOSPHATE_D_CONC [umol/kg]	59717	13312
SILICATE_D_CONC [umol/kg]	63330	13050
NITRITE_D_CONC [umol/kg]	42615	7356
NITRATE_D_CONC [umol/kg]	37494	7298
Fe_D_CONC [nmol/kg]	23474	7025
NO2+NO3_D_CONC [umol/kg]	27185	6793
Ni_D_CONC [nmol/kg]	16637	6783
Cd_D_CONC [nmol/kg]	16572	5581
Mn_D_CONC [nmol/kg]	17427	5469
Zn_D_CONC [nmol/kg]	16107	4897
Pb_D_CONC [pmol/kg]	15863	4721
SALINITY_D_CONC	29658	4112
OXYGEN_D_CONC [umol/kg]	23164	4020
Co_D_CONC [pmol/kg]	9526	3064
Y_D_CONC [pmol/kg]	6551	1897
TDN_D_CONC [umol/kg]	2197	1886
DOC_D_CONC [umol/kg]	3433	1885
Fe_56_54_D_DELTA [per 10^3]	3364	1872
Ba_D_CONC [nmol/kg]	6446	1821
SF6_D_CONC [fmol/kg]	3230	1712
CFC-12_D_CONC [pmol/kg]	5398	1712
CFC-11_D_CONC [pmol/kg]	5406	1712
La_D_CONC [pmol/kg]	7470	1604
Lu_D_CONC [pmol/kg]	3562	1524
Yb_D_CONC [pmol/kg]	3571	1524
Tm_D_CONC [pmol/kg]	3570	1524
Er_D_CONC [pmol/kg]	3572	1524
Ho_D_CONC [pmol/kg]	3572	1524

Dy_D_CONC [pmol/kg]	3571	1524
Tb_D_CONC [pmol/kg]	3566	1524
Gd_D_CONC [pmol/kg]	3569	1524
Eu_D_CONC [pmol/kg]	3559	1524
Sm_D_CONC [pmol/kg]	3558	1524
Pr_D_CONC [pmol/kg]	3571	1524
Ce_D_CONC [pmol/kg]	3559	1524
Cd_114_110_D_DELTA [per 10^3]	3193	1503
Zn_66_64_D_DELTA [per 10^3]	2872	1272
Ga_D_CONC [pmol/kg]	4854	1155
Al_D_CONC [nmol/kg]	10792	1136
Hg_T_CONC [pmol/kg]	3127	1011
DIC_13_12_D_DELTA [per 10^3]	2275	921
Ni_60_58_D_DELTA [per 10^3]	1106	884
Hg_Me_T_CONC [pmol/kg]	2546	870
NITRATE_18_16_D_DELTA [per 10^3]	1327	781
NITRATE_15_14_D_DELTA [per 10^3]	3299	781
Cd_TPL_CONC [pmol/kg]	1617	757
Th_230_D_CONC [uBq/kg]	3168	754
PH_TOT	982	753
Th_232_D_CONC [pmol/kg]	3073	734
P_TPL_CONC [nmol/kg]	1601	705
P_TPR_CONC [nmol/kg]	739	687
Nd_D_CONC [pmol/kg]	4001	677
Pa_231_D_CONC [uBq/kg]	2821	627
Cu_TPL_CONC [pmol/kg]	1406	600
V_D_CONC [nmol/kg]	1791	528
Mo_D_CONC [nmol/kg]	1865	528
DIC_D_CONC [umol/kg]	5687	523
Ba_TP_CONC [pmol/kg]	3110	483
V_SPT_CONC [pmol/kg]	1467	473
Ti_SPT_CONC [nmol/kg]	1436	473
Pb_SPT_CONC [pmol/kg]	1432	473
P_SPT_CONC [nmol/kg]	1468	473
Mn_SPT_CONC [nmol/kg]	1452	473
Fe_SPT_CONC [nmol/kg]	1448	473

Parameter Unification – Seawater Discrete Sample Data



Parameter Unification – Motivation

- **Reduce number of parameters (from 751 to 418)**
- **Simplify use of the IDP**
- **Avoid under-usage of non-BOTTLE data**

Acknowledgements

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IDP2025 Data Access

1 Bulk download (all datasets and formats)

<https://www.bodc.ac.uk/geotraces/data/idp2025/>

DOI: 10.5285/42c92148-8d03-8be6-e063-7086abc09f0c

2 webODV online extraction, analysis and visualization

<https://geotraces.webodv.awi.de/>

<https://explore.webodv.awi.de/>

<https://webodv.eoscfe.mesocentre.uca.fr/>

- Agreement to **IDP2025 Fair Data Use Statement** required
- No registration or login necessary

webODV Explore Access



[online help document](#) or the [ODV documents](#). By using this site, you consent to our [Usage Agreement](#).

Browse the tree structures below, rest the mouse over a dataset for a brief description, click on a dataset to open the dataset in a separate browser tab. Return to this page to select another dataset. Once a dataset is open, you obtain more information about the dataset via the *Collection* menu. Note that the *ocean/carbon/socat* dataset is very large and may take a while to start up. Most other datasets are ready almost instantly. You can also open a dataset by clicking on the respective link in the [dataset summary list](#).

IMPORTANT: The same datasets are also available at <https://explore.webodv.awi.de/>. Please bookmark this URL and use the alternative server if this one is down.

NOTE: Private views and settings are stored in your browser, not on our server. Visit the [Private Settings](#) page and learn how to backup and preserve your private data before deleting browser data or using the alternative server.

Ocean

- › sea-level
- ~ tracer
 - › del13c
 - › geosecs
 - ~ geotraces
 - ~ idp2025
 - ~ aerosols
 - GEOTRACES_IDP2025_Aerosols
 - ~ cryosphere
 - GEOTRACES_IDP2025_Cryosphere
 - ~ precipitation
 - GEOTRACES_IDP2025_Precipitation
 - ~ seawater
 - GEOTRACES_IDP2025_Seawater
 - ~ sensor
 - GEOTRACES_IDP2025_Seawater_Sensor
- › idp2021

Atmosphere

- › meteorology
- › radiosonde

Ice

- › vostok

Rivers

- › discharge

Sediment

- › core-top

GEOTRACES IDP2025 seawater discrete sample hydrographic and tracer data

eGEOTRACES Electronic Atlas

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

Contents:

- 2650 section plots
- 543 rotating 3D scenes

Demonstrate:

- General operation
- Links to **PI ORCID pages**, publications and **live data sessions**