

GLODAPv2.2022 ODV Collection

Created by Reiner Schlitzer, Alfred Wegener Institute, Bremerhaven on August 08, 2022 using basin-wide files obtained from GEOMAR.

The collection contains data for 45 variables at 61,689 stations as shown in the map below. Data availability (in %) by variable is summarized in Table 1.

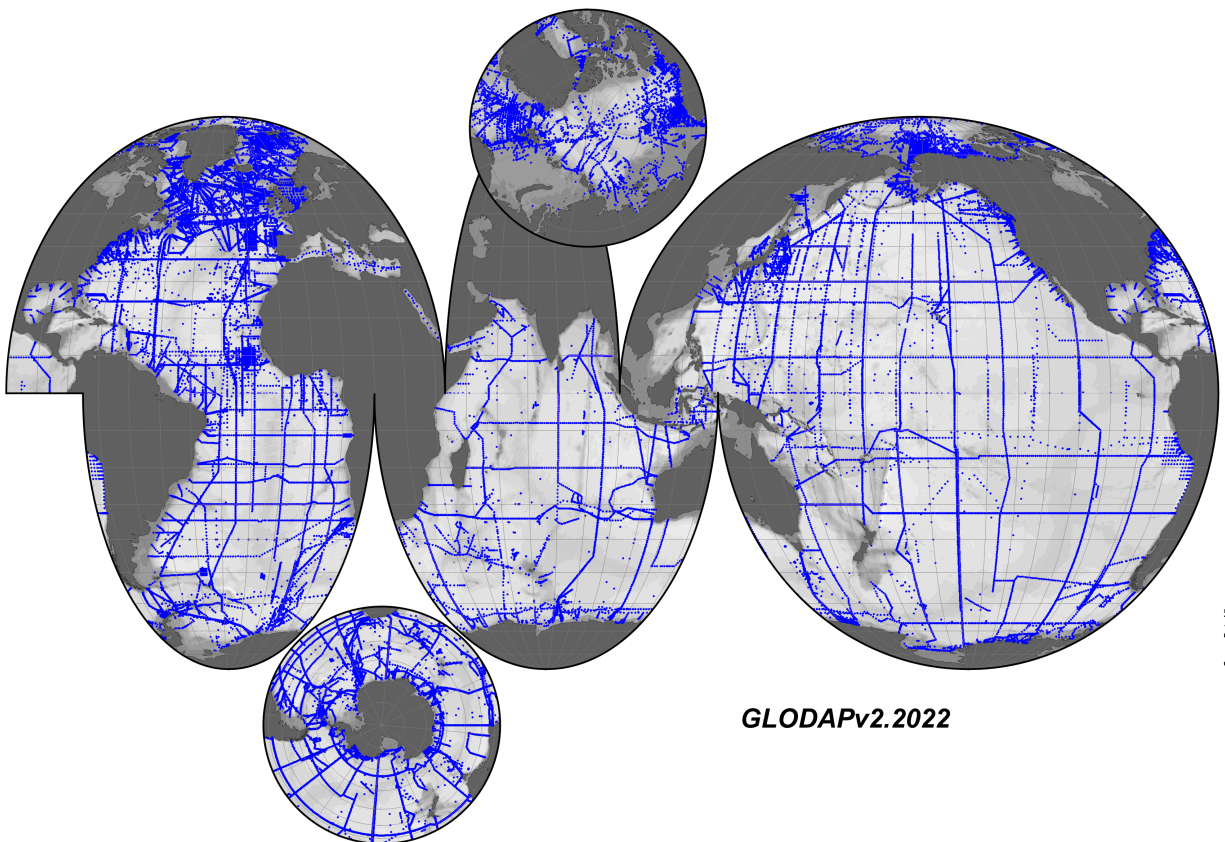


Figure 1: GLODAPv2.2022 station map.

Table 1: Data availability (in %) by variable.

1:	PRESSURE [DBAR]	100
2:	DEPTH [M]	100
3:	TEMPERATURE [DEG C]	99
4:	SALNTY [PSS-78]	98
5:	OXYGEN [UMOL/KG]	89
6:	PHSPHT [UMOL/KG]	76
7:	SILCAT [UMOL/KG]	80
8:	NITRAT [UMOL/KG]	80
9:	NITRIT [UMOL/KG]	58
10:	ALKALI [UMOL/KG]	35
11:	TCARBON [UMOL/KG]	39
12:	CFC-11 [PMOL/KG]	27
13:	CFC-12 [PMOL/KG]	29
14:	CFC-113 [PMOL/KG]	8
15:	CCL4 [PMOL/KG]	3
16:	SF6 [FMOL/KG]	7
17:	DEL13 [/MILLE]	2
18:	DEL14 [/MILLE]	3
19:	TRITUM [TU]	2
20:	DELHE3 [PERCNT]	3
21:	HELIUM [NMOL/KG]	2
22:	NEON [NMOL/KG]	1
23:	O18/O16 [/MILLE]	1

24:	TOC [UMOL/KG]	0.3
25:	DOC [UMOL/KG]	4
26:	DON [UMOL/KG]	0.1
27:	TDN [UMOL/KG]	2
28:	CHLORA [UG/KG]	3
29:	pHT [p=0,T=25,S]	34
30:	pHT [p,T,S]	34
31:	THETA [DEG C]	97
32:	SIGMA0 [KG/M**3]	97
33:	SIGMA1 [KG/M**3]	97
34:	SIGMA2 [KG/M**3]	97
35:	SIGMA3 [KG/M**3]	97
36:	SIGMA4 [KG/M**3]	97
37:	NEUTRAL DENSITY [KG/M**3]	86
38:	AOU [UMOL/KG]	84
39:	pCFC-11 [PPTV]	27
40:	pCFC-12 [PPTV]	28
41:	pCFC-113 [PPTV]	8
42:	pCCL4 [PPTV]	3
43:	pSF6 [PPTV]	7
44:	CASTNO	100
45:	BOTTLENO	100

Metadata and Data

In addition to the standard metadata, the collection has a *Cruise Metadata* meta variable containing a link to additional cruise metadata (Figure 2) for the current station. Clicking on the value opens the cruise metadata file in the web browser (Figure 3). You find details about the cruise, such as cruise dates, ship name and names of chief scientist as well as lead PIs for various groups of measurements. In addition, you also find links to references associated with this cruise (*Refs*), the cruise report and original data file of the cruise (*Data Files*), the OCADS metadata page of the cruise (*Metadata*), and the QC Details and Adjustments page of the cruise (*QC Details*). An example adjustments page is shown in Fig. 4 below.

Where available, 1- σ error data are included with the actual data (Figure 2). These error values are available for plotting via the *Metadata > Data Error Value* derived variable. QC flag values are shown when hovering the mouse over one of the ⓘ symbols or variable names.

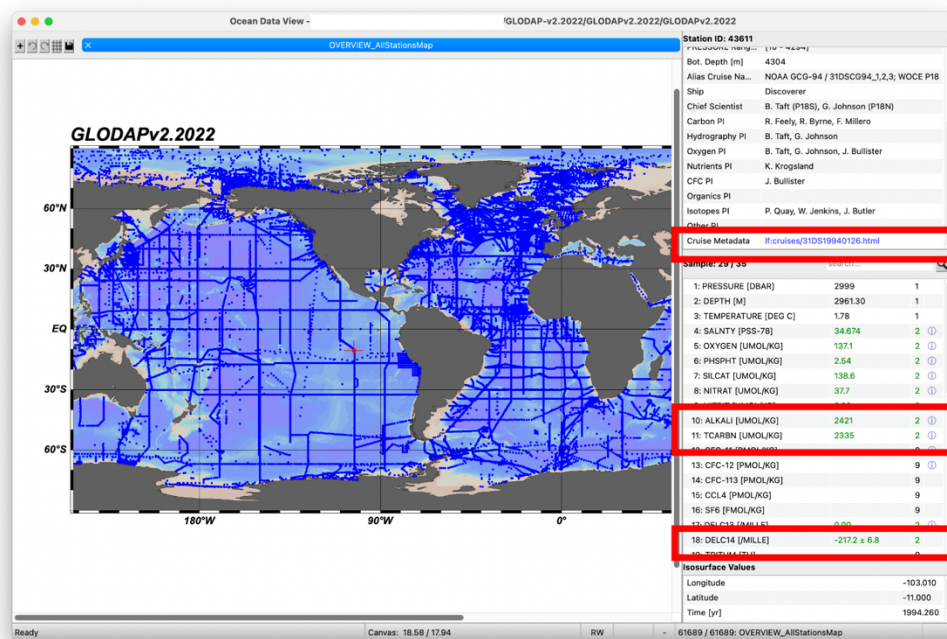


Figure 2: GLODAPv2.2022 metadata, data error and QC flag support.

31DS19940126

EXPCODE:	31DS19940126
Alias:	NOAA GCG-94 / 31DSCG94_1,2,3; WOCE P18
Consists of (Legs):	31DS19940126
Station Range:	
Region:	Pacific
Dates:	01/26/1994-04/27/1994
Ship:	Discoverer
Chief Scientist:	B. Taft (P18S), G. Johnson (P18N)
Carbon PI:	R. Feely, R. Byrne, F. Millero
Hydrography (T, S) PI:	B. Taft, G. Johnson
Oxygen PI:	B. Taft, G. Johnson, J. Bullister
Nutrients PI:	K. Kroglund
CFC (CFC-11, CFC-12, CFC-113, CCL4, SF6) PI:	J. Bullister
Organics (DOC, TDN, POC, PON) PI:	
Isotopes (C14, C13, H3, He3, He, Neon, 18O, Ba) PI:	P. Quay, W. Jenkins, J. Butler
Other PI:	
Measurements in Dataset:	CTDTMP, CTDSAL, SALNTY, CTDOXY, OXYGEN, SILCAT, NITRAT, NITRIT, PHSPHT, CFC-11, CFC-12, RITUM, HELIUM, DELHE3, DELC14, DELC13, TCARB, FCO2, FCO2TMP, ALKALI, PH_TOT, PHTEMP, THETA, TRITER
Cruise Data References:	
Data Files:	Data Files
Metadata Report:	Metadata
QC Details and Adjustments:	QC Details

Figure 3: Example cruise metadata.

GLODAPv2 :: GLODAPv2 :: All Regions :: Adjustments

GLODAPv2 @ CDIAC
Comments
Documentation, Downloads, misc. Uploads
Filter by Dataset:
ALL GLODAPv2 DATASETS
GLODAPv2 (NEW)
PACIFICA
CARINA
DISMISSED

Showing ADJUSTMENT values for cruise: 74AB20050501 | Back to Adjustments List | List related X-overs

Cruise: **74AB20050501** (dataset: CARBOOCEAN 📄) Stations: [1-16] [17-43] [44-144] Cruise Info Edit Adjustment Values
Synonyms (including errata!) for this cruise: 36 N section; 74AB20050501; 36 N section;

Stations:	[1-16]	[17-43]	[44-144]
Calculated carbon parameter:	pH ▾		
Salinity [+]	0.0	0	0.0
CTD-Sal. [+] slope/intercept - action [ID]	-999.0	-999 / -999 - # 3	-999.0
TCO ₂ [+]	0.0	0	0.0
Alkalinity [+]	0.0	0	0.0
pH [+]	-999.0	-999	-999.0
Nitrate [x]	0.975	0.975	0.975
Phosphate [x]	0.97	0.97	0.97
Silicate [x]	0.92	0.92	0.92
Oxygen [x]	0.94	0.94	1.0
CTD-Oxyg. [x] slope/intercept - action [ID]	-999.0	-999 / -999 - # 3	-999.0
CFC12 [x]	-999.0	-999	-999.0
CFC11 [x]	-999.0	-999	-999.0
CFC113 [x]	-999.0	-999	-999.0
CCI4 [x]	-999.0	-999	-999.0

📄 The selected Calculated Carbon Parameter will be exported as is and displayed in red with subscript "c", e.g. -0.123456!

No data available? Insert -999

No suggestion for adjustment possible? Insert -888

To calibrate CTDsal use:

$$CTDsal_calibrated = (CTDsal - CTDsal_intercept) / CTDsal_slope$$

To calibrate CTDoxy use:

$$CTDoxy_calibrated = (CTDoxy - CTDoxy_intercept) / CTDoxy_slope$$

Save adjustment values

Cruise Info
Regions for which cruise is relevant: AO
Selected region(s) for this cruise: Atlantic Ocean
Save cruise region
Annotations for this cruise in GLODAPv2:
View 0 annotation(s) (Lists all annotations)
Status of this cruise:
Cruise is a ☒ core cruise ☐ reference - CARINA ID: 164 Save cruise status

Files For Cruise
Plot files re. Cruise: - no files! -
Data files re. Cruise: - no files! -
Plot files re. Cluster: - no files! -

Comments re. this cruise
View 16 comment(s) (Lists all comments)

Autogenerated CTD salinity and CTD oxygen update - (current GLODAPv2/CARBOOCEAN comment)

Automated update! This overwrites adjustment values (and flags) of CTDoxy and CTDsal with the values from BOTsal and BOToxy for every cruise, unless CTDsal (or CTDoxy) is not present or bad.

Salinity action ID:3; no CTD salinity data. Setting CTD salinity offset to -999, QC flag removed.

Oxygen action ID:3; no CTD oxygen data. Setting CTD oxygen offset to -999, QC flag removed.

Posted by svheuve@gmail.com on 2015-02-19 09:22:24 UTC - Edit - Delete

Autogenerated CTD salinity and CTD oxygen update - (current GLODAPv2/CARBOOCEAN comment)

Automated update! This overwrites adjustment values (and flags) of CTDoxy and CTDsal with the values from BOTsal and BOToxy for every cruise, unless CTDsal (or CTDoxy) is not present or bad.

Salinity action ID:3; no CTD salinity data. Setting CTD salinity offset to -999, QC flag removed.

Oxygen action ID:3; no CTD oxygen data. Setting CTD oxygen offset to -999, QC

Figure 4: Example data adjustments page.