

BGC-Argo_Global_Profiles_2002-2023

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This ODV data collection contains 644,437 biogeochemical Argo profiles for the global ocean covering the period from September 2002 until January 2023.

The BGC-Argo netCDF files were downloaded from <ftp://ftp.ifremer.fr/ifremer/argo/dac/> on January 22 2023, and were imported using the ODV Argo netCDF profile importer. The list of data variables follows below.

A number of prepared views can be loaded using the *View > Load Views* option in ODV or webODV. Typically, views take a few seconds to load, however, some views involve very large numbers of stations and may take longer. Some example views are shown below.

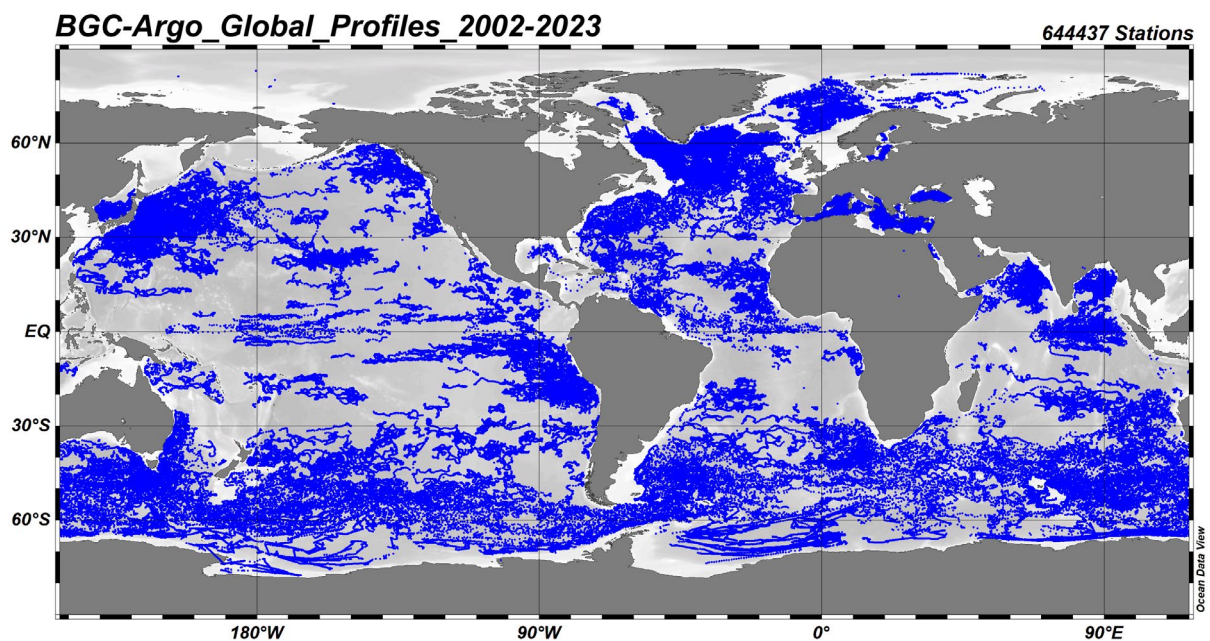
When using these data please acknowledge Argo as described [here](#).

Variables:

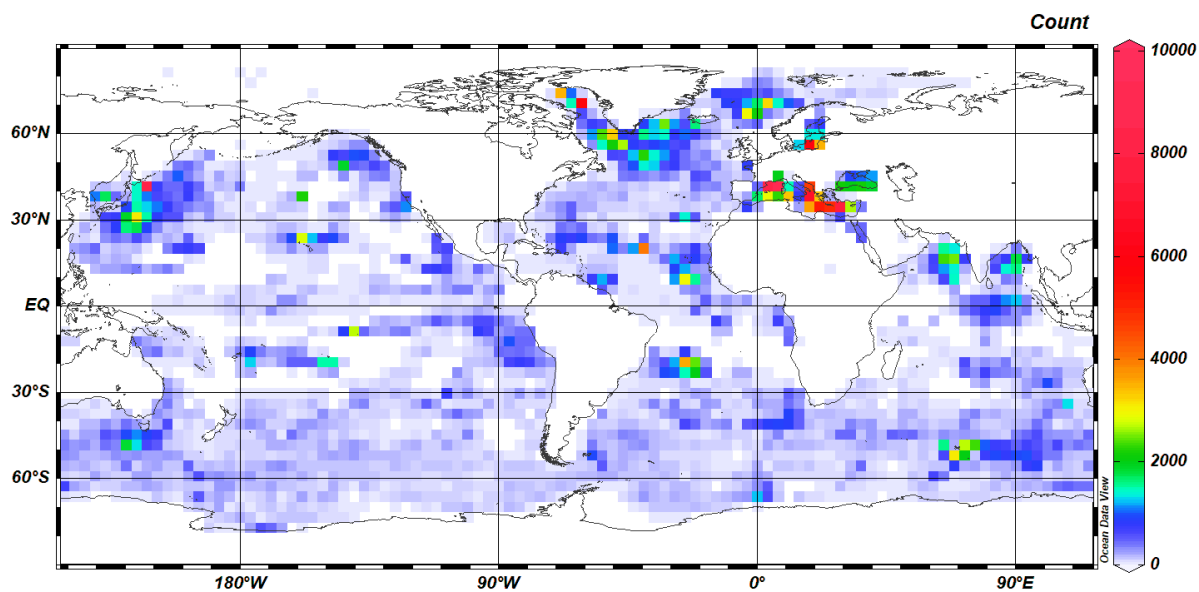
1: Pressure (original) [decibar]	PRES Sea water pressure, equals 0 at sea-level
2: Dissolved Oxygen (original) [$\mu\text{mol kg}^{-1}$]	DOXY
3: Dissolved Oxygen (adjusted) [$\mu\text{mol kg}^{-1}$]	DOXY_ADJUSTED
4: Turbidity (original) [ntu]	TURBIDITY sea_water_turbidity
5: Turbidity (adjusted) [ntu]	TURBIDITY_ADJUSTED sea_water_turbidity
6: Chlorophyll-A (original) [mg / m^3]	CHLA mass_concentration_of_chlorophyll_a_in_sea_water
7: Chlorophyll-A (adjusted) [mg / m^3]	CHLA_ADJUSTED mass_concentration_of_chlorophyll_a_in_sea_water
8: CDOM (original) [ppb]	CDOM
9: CDOM (adjusted) [ppb]	CDOM_ADJUSTED
10: Nitrate (original) [$\mu\text{mol kg}^{-1}$]	NITRATE
11: Nitrate (adjusted) [$\mu\text{mol kg}^{-1}$]	NITRATE_ADJUSTED
12: Bisulfide (original) [$\mu\text{mol kg}^{-1}$]	BISULFIDE
13: Bisulfide (adjusted) [$\mu\text{mol kg}^{-1}$]	BISULFIDE_ADJUSTED
14: Downwelling PAR (original) [$\mu\text{mol Quanta m}^{-2} \text{s}^{-1}$]	DOWNWELLING_PAR
15: Downwelling PAR (adjusted) [$\mu\text{mol Quanta m}^{-2} \text{s}^{-1}$]	DOWNWELLING_PAR_ADJUSTED
16: Sea temperature from oxygen sensor ITS-90 scale [degree_Celsius]	TEMP_DOXY
17: Uncalibrated phase shift reported by oxygen sensor (BPHASE) [degree]	BPHASE_DOXY
18: Intensity of ultra violet flux dark measurement from nitrate sensor [count]	UV_INTENSITY_DARK_NITRATE
19: Particle backscattering at 700 nm (original) [m^{-1}]	BBP700
20: Particle backscattering at 700 nm (adjusted) [m^{-1}]	BBP700_ADJUSTED
21: in-situ pH on total scale (original)	PH_IN_SITU_TOTAL
22: in-situ pH on total scale (adjusted)	PH_IN_SITU_TOTAL_ADJUSTED
23: Phase delay reported by oxygen sensor [microsecond]	PHASE_DELAY_DOXY
24: Total angle specific volume from backscattering sensor at 700 nanometers [count]	BETA_BACKSCATTERING700
25: Chlorophyll-A signal from fluorescence sensor [count]	FLUORESCENCE_CHLA
26: Raw fluorescence from colored dissolved organic mater sensor [count]	FLUORESCENCE_CDOM
27: Voltage difference between reference and source from pH sensor [Volt]	VRS_PH
28: pH (FREE)	PH_IN_SITU_FREE
29: Frequency reported by oxygen sensor [Hertz]	FREQUENCY_DOXY
30: Downwelling irradiance at 380 nm (original) [$\text{W m}^{-2} \text{nm}^{-1}$]	DOWN_IRRADIANCE380
31: Downwelling irradiance at 380 nm (adjusted) [$\text{W m}^{-2} \text{nm}^{-1}$]	DOWN_IRRADIANCE380_ADJUSTED
32: Downwelling irradiance at 412 nm (original) [$\text{W m}^{-2} \text{nm}^{-1}$]	DOWN_IRRADIANCE412
33: Downwelling irradiance at 412 nm (adjusted) [$\text{W m}^{-2} \text{nm}^{-1}$]	DOWN_IRRADIANCE412_ADJUSTED
34: Downwelling irradiance at 490 nm (original) [$\text{W m}^{-2} \text{nm}^{-1}$]	DOWN_IRRADIANCE490

35: Downwelling irradiance at 490 nm (adjusted) [$W\ m^{-2}\ nm^{-1}$]	DOWN_IRRADIANCE490_ADJUSTED
36: Raw downwelling irradiance at 380 nanometers	RAW_DOWNWELLING_IRRADIANCE380
37: Raw downwelling irradiance at 412 nanometers	RAW_DOWNWELLING_IRRADIANCE412
38: Raw downwelling irradiance at 490 nanometers	RAW_DOWNWELLING_IRRADIANCE490
39: Raw downwelling photosynthetic available radiation [count]	RAW_DOWNWELLING_PAR
40: Intensity of ultra-violet flux dark sea water from nitrate sensor [count]	UV_INTENSITY_DARK_SEAWATER_NITRATE
41: Nitrate [micromole/l]	MOLAR_NITRATE
42: Nitrate fit error	FIT_ERROR_NITRATE
43: Internal temperature of the SUNA sensor [degree_Celsius]	TEMP_NITRATE
44: Relative humidity inside the SUNA sensor (If > 50% There is a leak) [percent]	HUMIDITY_NITRATE
45: Uncalibrated phase shift reported by oxygen sensor (TPHASE) [degree]	TPHASE_DOXY
46: Uncalibrated red phase shift reported by oxygen sensor [degree]	RPHASE_DOXY
47: Thermistor signal from backscattering sensor [count]	TEMP_CPU_CHLA
48: Particle backscattering at 532 nm (original) [m^{-1}]	BBP532
49: Particle backscattering at 532 nm (adjusted) [m^{-1}]	BBP532_ADJUSTED
50: Total angle specific volume from backscattering sensor at 532 nanometers [count]	BETA_BACKSCATTERING532
51: Uncalibrated phase shift reported by oxygen sensor (C1PHASE) [degree]	C1PHASE_DOXY
52: Uncalibrated phase shift reported by oxygen sensor (C2PHASE) [degree]	C2PHASE_DOXY
53: Uncompensated (pressure and salinity) oxygen concentration reported by the oxygen sensor [$\mu mol/l$]	MOLAR_DOXY mole_concentration_of_dissolved_molecular_oxygen_in_sea_water
54: Beam attenuation from transmissiometer sensor at 660 nanometers	TRANSMITTANCE_PARTICLE_BEAM_ATTENUATION660
55: Turbidity signal from side scattering sensor [count]	SIDE_SCATTERING_TURBIDITY
56: Temperature of the spectrometer [degree_Celsius]	TEMP_SPECTROPHOTOMETER_NITRATE
57: Particle beam attenuation at 660 nanometers	CP660
58: Calibrated phase shift reported by oxygen sensor [degree]	DPHASE_DOXY
59: Count reported by oxygen sensor [dimensionless]	COUNT_DOXY

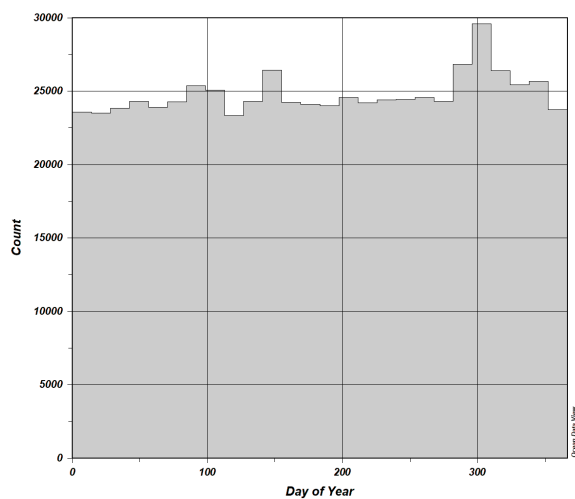
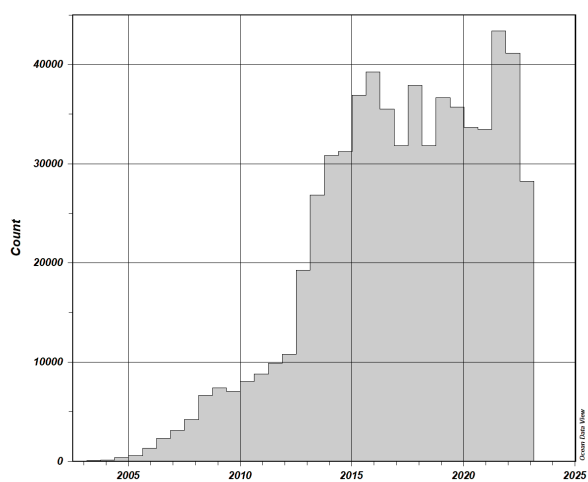
Station Map:



Spatial Coverage:

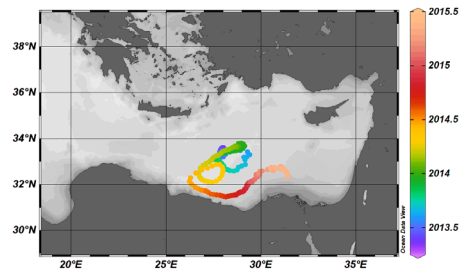
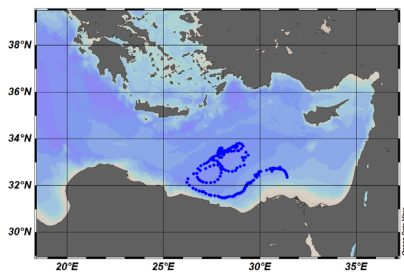
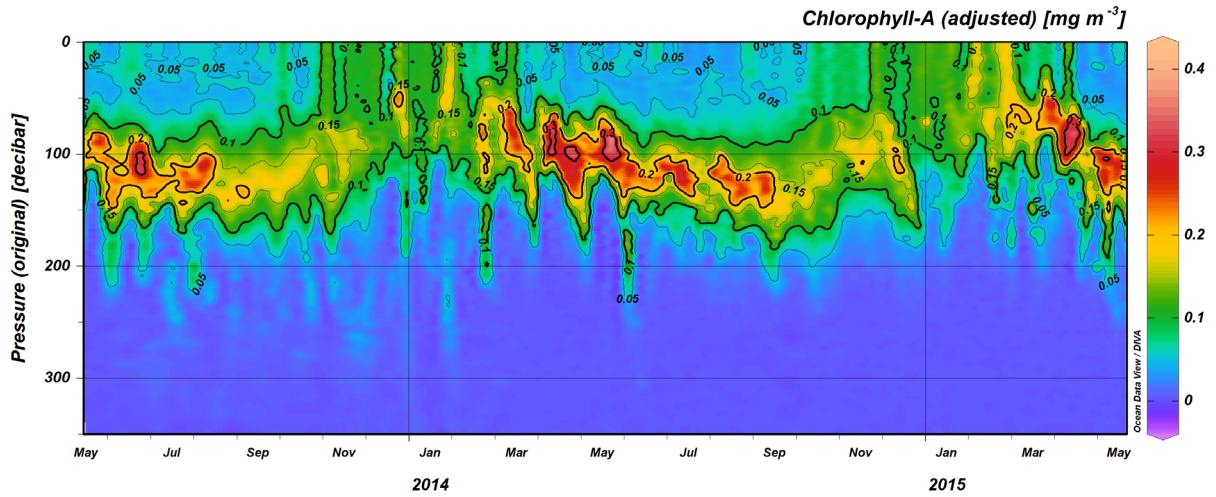


Temporal Coverage:

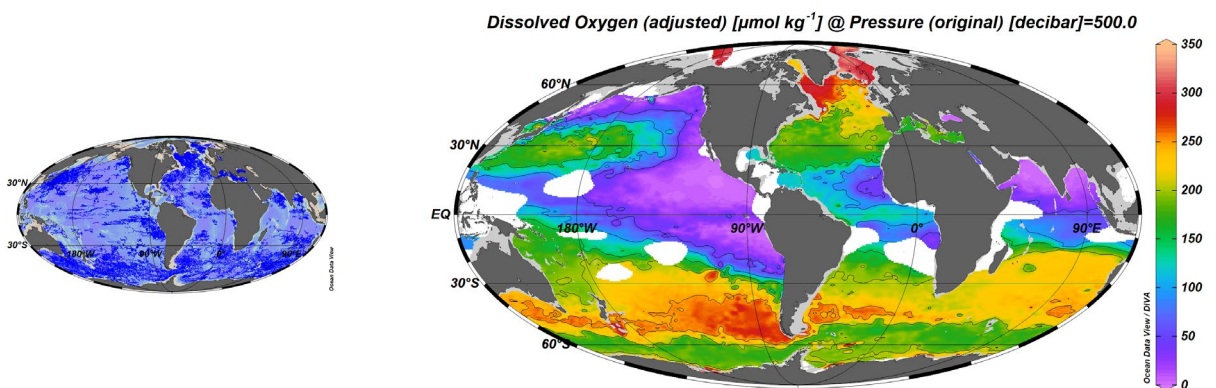


Example Views:

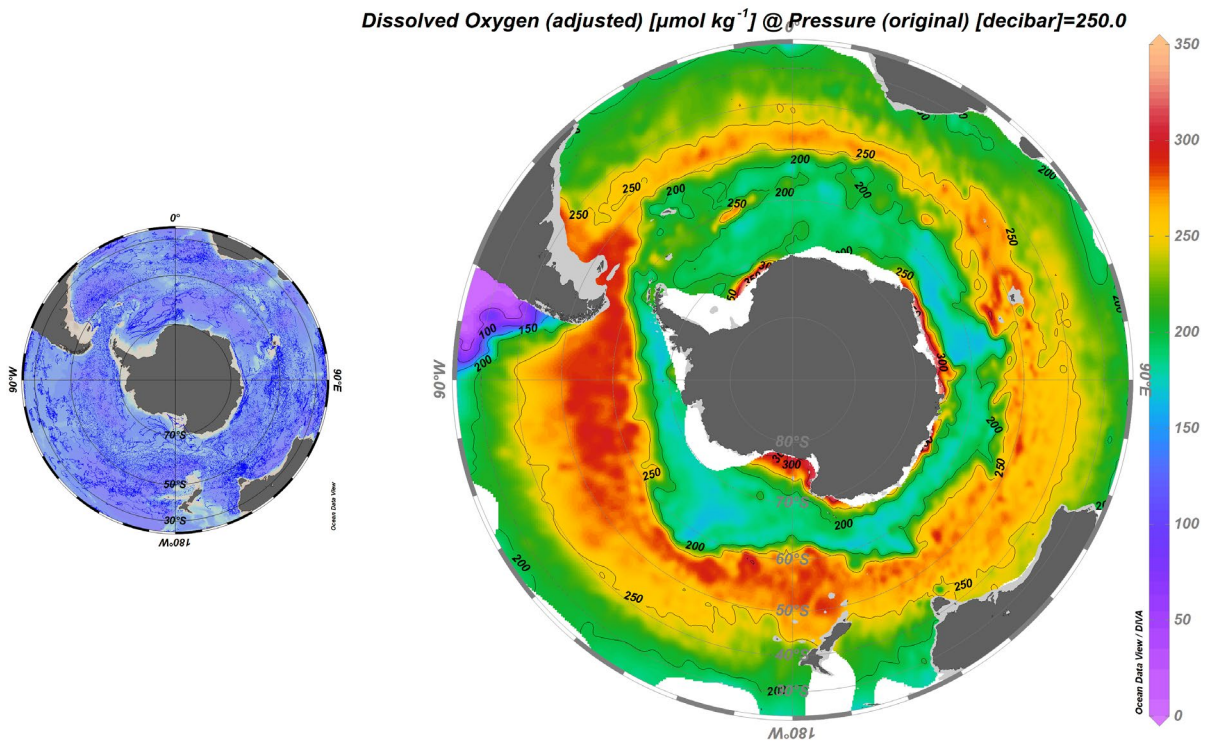
Chl-A_from_Float_6901528: Chlorophyll-A concentrations in the upper 350 db along the track of float 6901528.



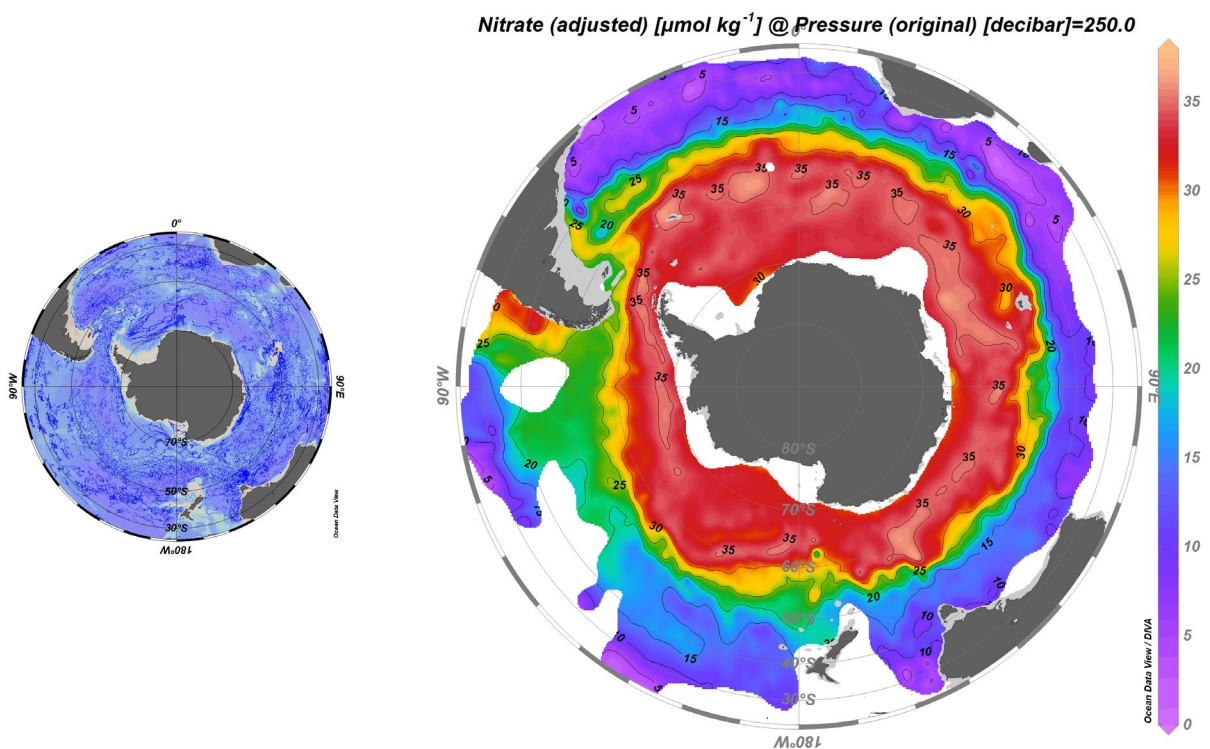
Oxygen_at_500db: Annual average dissolved oxygen concentrations at 500 db.



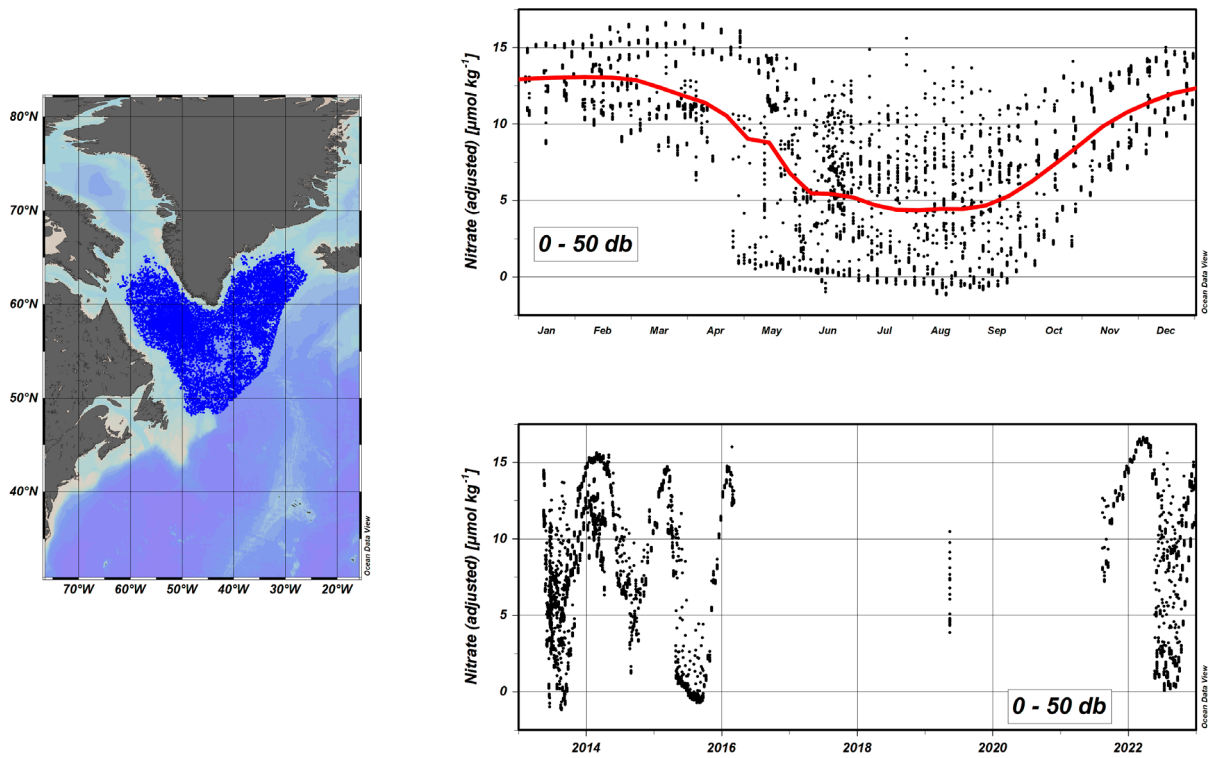
Oxygen_at_250db_SouthernOcean: Annual average dissolved oxygen concentrations at 250 db in the Southern Ocean.



Nitrate_at_250db_SouthernOcean: Annual average nitrate concentrations at 250 db in the Southern Ocean.



Nitrate_0-50db_vs_time_Labrador_and_Irminger_Seas: Upper ocean (0 – 50 db) nitrate concentrations in the Labrador and Irminger Seas versus time and season.



Oxygen_at_250db: Annual average dissolved oxygen concentrations at 250 db shown as interrupted map.

