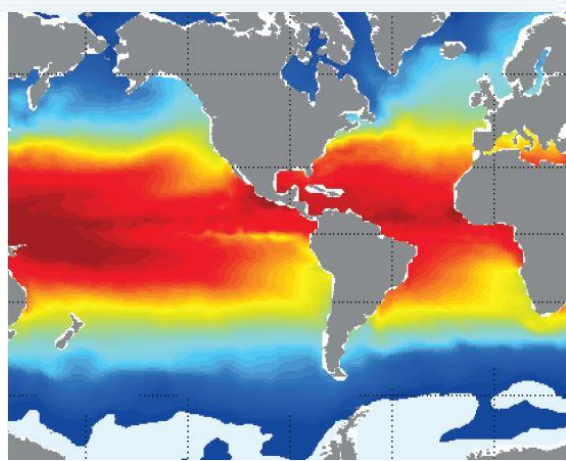


NATIVE GRID PRODUCT – NON ASSIMILATIVE HINDCAST - GLOBAL OCEAN - BIO - 1/4°



This product contains non assimilative hindcast (01/01/1998->31/12/2016) of the Global Ocean biogeochemistry at 1/4° (~28km at the equator) - Chlorophyll, Nitrate, Phosphate, Oxygen, Phytoplankton Carbon Biomass, Primary Production - with no update of the latest ocean fields. The numerical files are displayed on the native grid 1/4°.

Reference: BIO4V1R1-HIND

<ul style="list-style-type: none"> Variables 	NO3 Nitrate NH4 Ammonium PO4 Phosphate Si Silicate Fer Iron NCHL Nanophytoplankton Chlorophyll DCHL Diatoms Chlorophyll PHY Nanophytoplankton carbone biomass PHY2 Diatoms carbon biomass O2 Oxygen PPn Nanophytoplankton primary production PPd Diatoms primary production	mmol N.m-3 mol C.L-1 mmol P.m-3 mmol Si.m-3 mmol Fe.m-3 mg Chl.m-3 mg Chl.m-3 mol C.L-1 mmol C.m-3 mmol .m-3 g/day/m3 mmol.m-3 g/m3/day g/m3/day
<ul style="list-style-type: none"> Geographical coverage 	Global Ocean (180°W-180°E; 77°S-90°N)	
<ul style="list-style-type: none"> Grid and spatial horizontal resolution 	1/4°~28km at the equator on ORCA025 Native Grid (ARAKAWA C, no interpolation)	
<ul style="list-style-type: none"> Spatial vertical resolution 	75 vertical levels (from -5500.0m to 0.0m)	
<ul style="list-style-type: none"> Temporal resolution 	Weekly mean	
<ul style="list-style-type: none"> Temporal coverage 	Non Assimilative Hindcast (01/01/1998->31/12/2016)	
<ul style="list-style-type: none"> Update frequency 	No update	

Mercator Ocean – Latest update: October 2016

	<p>Domain: Global Ocean (180°W-180°E ; 77°S-90°N) Physic/Biogeochemistry: Biogeochemistry Configuration free model/ Tide&Sea-Ice: cf GLORYS2V3-FREERUN</p> <p>Code and Version: PISCES-Nemo3.5 for Biogeochemistry forced by GLORYS2V3-FREERUN in version NEMO3.1 for physic. Grid and resolution: ORCA025 [1/4°; 50 levels] Grid size: 1442*1021*50 (partial steps) Data assimilation: No/ Update: None Bathymetry: cf GLORYS2V3-FREERUN Time step: 2400s (tracers and Biogeochemistry)</p>
--	--

Reference BIO4V1R1-HIND	
Forcing and Data Assimilation	
Data assimilation	No
Data assimilation scheme	None
Data assimilated	None
Atmospheric or Biogeochemical forcings:	Atmospheric forcings: Cf GLORYS2V3-FREERUN Biogeochemical forcings: Iron (Fe) input through sediment and wind.
Runoff:	For physics: Cf GLORYS2V3-FREERUN; NO3, PO4, Fe, Si, DIC inputs through rivers
Open boundary conditions	No
Initial Conditions and Relaxation	
Initial Conditions	Levitus WOA (2001) for NO3, O2, PO4, Si; GLODAP for DIC and Alkalinity; Restart from a 3000 years long run for Iron (Fe) and DOC;
Surface relaxation	No
Water column (3D) relaxation	No
Convection	Cf GLORYS2V3-FREERUN
Parametrisation	
Surface Physics parametrisation	Cf GLORYS2V3-FREERUN
Bottom friction	Cf GLORYS2V3-FREERUN
Lateral friction	Cf GLORYS2V3-FREERUN
Vertical mixing	Cf GLORYS2V3-FREERUN ; weekly average of log10(kz) is performed
Advection	Cf GLORYS2V3-FREERUN
Tracer diffusion	Cf GLORYS2V3-FREERUN
Momentum diffusion	Cf GLORYS2V3-FREERUN
Horizontal diffusion coefficient for tracers and momentum	Cf GLORYS2V3-FREERUN
Vertical diffusion coefficient for tracers and momentum	Cf GLORYS2V3-FREERUN