

Biogeochemical Time Series Stations - Southern Ocean

International Ocean Carbon Coordination Project (www.ioccp.org)

Last updated: April 2016 (using last available data from March 2014)

Station Name	Observing Element	Location	Period of Operation	Observing Frequency	Biogeochemical EOVs (Sub-Variables) Measured	PI	Country
Palmer LTER	Ship-based	64.8° S, 64.1° W (Antarctica)	1990-	1 cruise/yr (10 ocean sampling sites around Palmer Station)	Dissolved Oxygen Inorganic Macronutrients (NO ₃ +NO ₂ NO ₂ NH ₄ P Si) Carbonate System (pCO ₂ DIC TA) Suspended Particulates (Chl-a Beam_Att POM POC+PIC-flux Bsi-flux) DOC	Matthew Erickson	
Southern Ocean Time-Series (SOTS)	Ship-based	47°S, 140°E - 3 moorings (meteorology/oceanography, biogeochemistry, sediment trap) with annual servicing cruise	2007-	1 cruise/yr (mooring servicing)	Dissolved Oxygen Inorganic Macronutrients (NO ₃ +NO ₂ P Si) Carbonate System (pCO ₂ DIC TA) Suspended Particulates (Chl-a Beam_Att POM POC+PIC-flux Bsi-flux) DOC	Tom Trull	Australia
South Georgia time series	Ship-based	53.15° S to 54.07° S, 37.58° W to 39.60° W	2006-	2-4 cruise/yr	Carbonate System (pCO ₂ DIC TA)	Vassilis Kitidis vak@pml.ac.uk	UK

<p>Rothera Oceanographic and Biological Time Series (RaTS)</p>	<p>Ship-based</p>	<p>Site 1: 67° 34.20'S, 68° 13.50' W; Site 2: 67° 34.85'S, 68° 09.34'W</p>	<p>1997-</p>	<p>CTD/Niskin sampling every 5 days during summer; reduced frequency during winter. (Depends heavily on weather/ice conditions)</p>	<p>Inorganic Macronutrients (NO3+NO2 NO2 NH4 P Si) Carbonate System (pCO2 DIC TA pH) Suspended Particulates (Chl-a Beam_Att POC+PIC-flux) DOC</p>	<p>Mike Meredith (mmm@bas.ac.uk)</p>	<p>UK</p>
<p>King Sejong Station (KOPRI)</p>	<p>Ship-based</p>	<p>62.2° S, 58.8° W</p>	<p>1996* - (depending on parameters, the duration is different. In case of pCO2 of seawater, reliable data start being logged in 2012)</p>	<p>every minute, every 5 minutes, or once a day depending on parameters</p>	<p>Carbonate System (pCO2) Suspended Particulates (Chl-a Beam_Att)</p>	<p>Tae Siek Rhee</p>	

