

# Australia

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## Summary of Operational and Planned Oceanographic Observation Programs

### Integrated Marine Observing System

IMOS – provides data in the open oceans around Australia out to a few thousand kilometers as well as the coastal oceans.

<http://www.imos.org.au/facilities/argo-australia.html>

IMOS Site Map <http://imos.org.au/sitemap.html>

<http://imos.org.au/australiancontinuousplanktonr3.html>

### Moorings

Deep Water Moorings <http://imos.org.au/sots.html>

National Mooring Network <http://imos.org.au/101.html>

Ocean Portal <http://imos.aodn.org.au/webportal/>

OceanSITES: South of Tasmania 47S, 54S and 61S along 140E, and Indian Monsoon and Indonesian through flow. <http://www.oceansites.org/network/index.html>

Deep-ocean Assessment and Reporting of Tsunamis (DART). Maintains 8 DART moorings. <http://www.ndbc.noaa.gov/dart.shtml>

<http://www.bom.gov.au/tsunami/index.shtml>

15 Active Moorings 25 January 2012

<http://osmc.noaa.gov/Monitor/OSMC/OSMC.html>

### XCTD/XBT/TSG

Ships of Opportunity <http://imos.org.au/soop.html>

Tasman Box (PX30, PX34 and PX4) <http://imos.org.au/underwaydata.html>

Fremantle to Indonesia (IX1) <http://imos.org.au/underwaydata.html>

Fremantle/Red Sea/Gulf of Aden <http://www-hrx.ucsd.edu/ix15/i150901.html>

Hobart/ Dumont d'Urville (IX28) <http://www-hrx.ucsd.edu/ix28.html>

IOMS Ocean Portal <http://imos.aodn.org.au/webportal/>

PX5, Brisbane-Yokohama, 9 trips 2009-2011 to date.

<http://www-hrx.ucsd.edu/px05/p051107.html>

P14S operated with Italy in high density mode since 1994. 25 sections completed through January 2010.

### ARGO

369 active 25 January 2012 To see latest status of floats go to:

<http://wo.jcommops.org/cgi-bin/WebObjects/Argo.woa/wa/default>

and select Monitoring and Countries.

See also [http://www.argo.ucsd.edu/About\\_Argo.html](http://www.argo.ucsd.edu/About_Argo.html) for present global network .

Southern Ocean ARGO Regional Center: CSIRO and BODC

[http://www.bodc.ac.uk/projects/international/argo/southern\\_ocean/](http://www.bodc.ac.uk/projects/international/argo/southern_ocean/)

### **Sea Level**

Latest GLOSS/MSL data (16 stations) posted 2011.

<http://www.psmsl.org/data/obtaining/>

20 Fast stations posted at Hawaii. Latest postings are December 2011.

<http://ilikai.soest.hawaii.edu/uhsic/woce.html> Tide Predictions for Australia,

South Pacific and Antarctica: <http://wer.bom.gov.au/oceanography/tides/>

See also <http://www.ioc-sealevelmonitoring.org/index.php> for near real-time data

Australian Baseline Sea Level Monitoring Project:

[http://www.bom.gov.au/oceanography/projects/abslmp/abslmp\\_reports.shtml](http://www.bom.gov.au/oceanography/projects/abslmp/abslmp_reports.shtml)

South Pacific Sea Level and Climate Monitoring Stations:

[http://www.bom.gov.au/oceanography/projects/spslcmp/spslcmp\\_reports.shtml](http://www.bom.gov.au/oceanography/projects/spslcmp/spslcmp_reports.shtml)

18 GPS positioned stations, 13 of which are GLOSS

<http://www.sonel.org/spip.php?page=cgps>

### **Surface Drifters**

12 active 25 January 2012 <http://osmc.noaa.gov/Monitor/OSMC/OSMC.html>

### **Hydrography**

Latest and next Repeat Hydrographic sections (standard WOCE sampling):

P15S, Equator-50S 175W, 2009

SR3, Tasmania to Antarctica, 140-145E 2007, planned 2010

I9S, 115E, 2005 and 2012

[http://www.go-ship.org/RefSecs/Table&Meas\\_May2010b.pdf](http://www.go-ship.org/RefSecs/Table&Meas_May2010b.pdf)

### **Wave**

28 BoM WR-Buoys, other authorities and private

### **Bio/Chem**

Maintain 2 deep ocean time-series sediment trap and current meter moorings along 140E at 47S and 54S. 47S to be instrumented with new trap, air-sea ASIMET surface flux mooring and a surface biogeochemical mooring to begin operating as an OceanSITES time series. Continental shelf transects off Perth: T, S, fluorescence, light, Nuts, chlorophyll, phytoplankton and zooplankton.

Continuous Plankton Recorder (AusCPR) Survey

<http://imos.org.au/australiancontinuousplanktonr3.html>

Seagrassnet <http://www.seagrassnet.org/>

### **VOS**

26 VOS/2 VOSclim ships reporting mid January 2012.

<http://osmc.noaa.gov/Monitor/OSMC/OSMC.html>

**ASAP/WRAP**

Cooperating with UK and USA, sponsors 2 WRAP/day, 60E-160E, maintenance at Australian ports, in support of Palliser Bay operation

**Satellite Station**

Tasmanian Earth Resources Satellite Station <http://www.terss.org.au/>

See also <http://www.wmo.int/pages/prog/sat/satellitestatus.php>