

# Australia

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## Summary of operational and planned GOOS Participation

Observations`	Comments
Surface Drifters	26 active and on GTS February 2010
Moorings	<p>National Mooring Network: Southern Ocean Automated Time Series Observations (SOTA) <a href="http://imos.org.au/sots.html">http://imos.org.au/sots.html</a> Integrated Marine Observing System <a href="http://imos.org.au/101.html">http://imos.org.au/101.html</a> <a href="http://imos.org.au/sitemap.html">http://imos.org.au/sitemap.html</a> <a href="http://imos.aodn.org.au/webportal/">http://imos.aodn.org.au/webportal/</a></p> <p>OceanSITES: South of Tasmania 47S, 54S and 61S along 140E, and Indian Monsoon and Indonesian through flow. <a href="http://www.oceansites.org/network/index.html">http://www.oceansites.org/network/index.html</a></p> <p>Deep-ocean Assessment and Reporting of Tsunamis (DART) Maintains 6 DART moorings. <a href="http://www.ndbc.noaa.gov/dart.shtml">http://www.ndbc.noaa.gov/dart.shtml</a></p>
XCTD/XBT/TSG	<p>Operates on lines IX1, 12, 22, 28 and PX30 and 34. A total of 16 High density transects were completed with partners on IX28, PX30 and PX34 in 2009 while IX12 was completed twice. Maintain TSG on IX28 and RVs. See deployment plan up to June 2009 at <a href="http://imos.org.au/77.html">http://imos.org.au/77.html</a></p> <p>A selection of Royal Navy XBT's are also placed on the GTS. WOCE P14S operated with Italy in high density mode since 1994. 24 sections completed through 2008, planned for early 2010.</p>
ARGO	<p>250 active February 2010. 45 deployments planned 2010 as off February 2010 <a href="http://www.imos.org.au/facilities/argo-australia.html">http://www.imos.org.au/facilities/argo-australia.html</a> CSIRO - Southern Ocean Regional Data Center (SORDAC) <a href="http://www.csiro.au/science/psro.html">http://www.csiro.au/science/psro.html</a></p>
Sea Level	22 GLOSS MSL stations, 21 of which are also FAST(posted within six weeks of measurement). Latest GLOSS/MSL data

posted 2008 (as of Oct 2009). January 2010 FAST data posted by Hawaii.

Tide Predictions for Australia, South Pacific and Antarctica:

<http://www.bom.gov.au/oceanography/tides/>

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 MonitorinStations:

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

11 GPS positioned stations, 7 of which are GLOSS MSL and/or

FAST <http://www.sonel.org/stations/cgps/survey/survey.cgps.html>

#### TS Hydrography

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

P15S, Equator-50S 175W, 2009

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

I9S, 115E, 2005 and 2012

[http://www.go-ship.org/RefSecs/Table\\_RefSecs1.4.pdf](http://www.go-ship.org/RefSecs/Table_RefSecs1.4.pdf)

[http://ushydro.ucsd.edu/repeathydro\\_map.html](http://ushydro.ucsd.edu/repeathydro_map.html)

#### 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. Southern ocean CPR surveys with Japan.

[http://192.171.163.165/sister\\_surveys.htm#tokyo](http://192.171.163.165/sister_surveys.htm#tokyo)

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

#### Carbon

IX28 (with France) since 2002.

Hobart-Mawson Base/Hobart-Casey Base 4/yr, began 2006.

Hobart-Terra Adellie (Antarctica) 3/yr (with France)

SW Pacific/East Indian Ocean/Coral Sea/Tasman Sea 8/yr  
2007 on word.

VOS-Golden Waddle, every 5 weeks, Australia-Japan mooring

47S-142E, PULSE time series, start 2008.

SR3 Hobart-Antarctica (140E) 2007.

P15S, Equator to 50S-175W, planned 2009, South Pacific

I9S, Indian Ocean 115E, 2012. Fremantle to Antarctica.

CSIRO

I2, I5 and I10 every 5 years. P12, 2007. P15/SR5, 2001.

I9 with CRC 2004 and every 5 years

I10, every 5 years. 92E, 2000 and every 5 years.

DOTSS, 2007 and every 7 years.

Aurora Australia, Hobart-Mawson 4/yr

<http://www.ioccp.org/>

Sea Ice

Thickness, drift (buoys), extent, ridging (satellite and aircraft)

VOS

33 VOS and 10 VOSlim ships active February 2010. Target is 20 active VOSlim ships.

<http://www.ncdc.noaa.gov/oa/climate/voslim/voslim.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

<http://www.terss.org.au/>

Tasmanian Earth Resources Satellite Station