

# Brazil

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## Summary of operational and planned GOOS participation

### Observations

### Comments

Surface drifters	1 active and on GTS December 2009  Deploy (with cooperation of USA/NOAA) 40 SVP-B drifters in the Tropical and South Atlantic.
Moorings	Maintains 5 moorings in the PIRATA network. Also maintains 3 moorings off the coast of Brazil. 17 PIRATA moorings reporting on GTS December 2009 See these site for updates: <a href="http://www.pmel.noaa.gov/pirata/pir_implement.html">http://www.pmel.noaa.gov/pirata/pir_implement.html</a> <a href="http://www.pmel.noaa.gov/tao/global/global.html">http://www.pmel.noaa.gov/tao/global/global.html</a>
XCTD/XBT/TSG	MOVAR (Trinidad repeat line) - High density XBT line between Victoria and Trinidad every two months started in 2004. 21 transects completed through October 2009. <a href="http://www.aoml.noaa.gov/phod/hdenxbt/ax_home.php">http://www.aoml.noaa.gov/phod/hdenxbt/ax_home.php</a>
ARGO	10 operational December 2009. Began participation in 2005 with 4 deployments.
Sea Level	8 GLOSS MSL stations. 4 have not reported recently but several being automated. Latest data posted at PSMSL is 2008. Ilha Fiscal, Salvador and Cananea reporting in FAST mode. December 2009 FAST data posted at Hawaii Center. Plans to maintain 9 FAST Stations. See: <a href="http://www.gloss-sealevel.org/publications/documents/brazil_gex2007.pdf">http://www.gloss-sealevel.org/publications/documents/brazil_gex2007.pdf</a>  6 GPS positioned stations, 3 of which are GLOSS/and or FAST (Salvador, Canania and Fortaleza) <a href="http://www.sonel.org/stations/cgps/survey/survey.cgps.html">http://www.sonel.org/stations/cgps/survey/survey.cgps.html</a>
Time Series	OceanSITES, Weddel Sea (Northeastern Station) participant 63S 42.5E <a href="http://www.oceansites.org/network/index">www.oceansites.org/network/index</a>
Bio/Chem	Monitoring heavy metals on shelf, mercury in Brazil, environmental health indicators in lagoons along shelf off the State of Rio de Janeiro

Long-term bio observations from a mooring in the Brazilian upwelling region off Cabo Frio (RJ)

VOS

8 Active December 2009. Potential VOS fleet 367

Coastal

Pollutants - monitor contaminants discharges and ocean health indicators, solids in suspension, garbage along beaches, chemicals in the atmosphere over the ocean, harmful algae blooms. Coral reef monitoring.

ANTARES Participant – study of the long-term changes in the marine ecosystems around Latin America

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