

# India

May 2010

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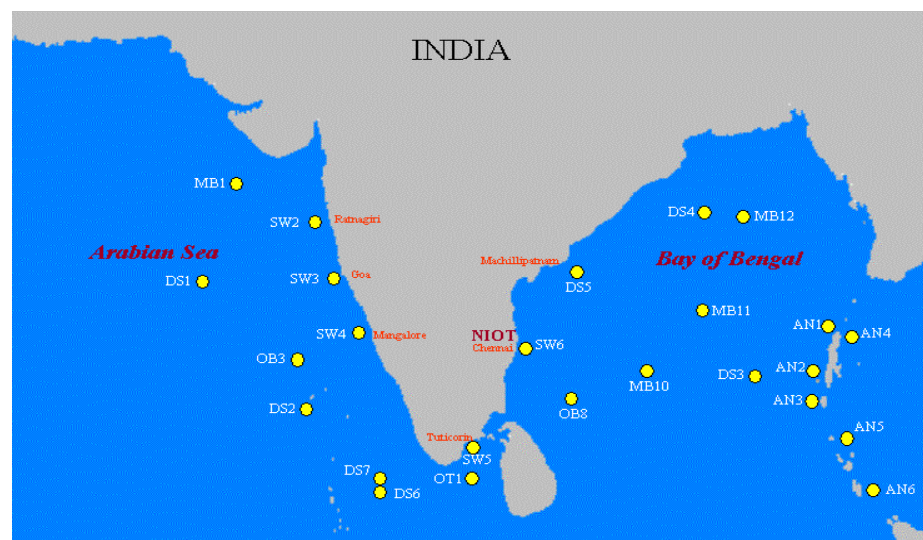
## Summary of operational and planned GOOS participation

### Observations

### Comments

Surface Drifter 9 active and on GTS April 2010

Moorings



Indian Coastal and Deep sea moorings providing  
Waves AP, AP, SST, SSS, Surface Currents.  
AP, SST, AT, wind, waves in real-time via GTS.  
To see present Buoy status go to <http://www.niot.res.in>

Equatorial current meter moorings: deployed at 93E, 83E and 76/77E.  
RCMs at 100, 300, 500, 1000, 2000 and 4000m  
[http://www.nio.org/data\\_info/deep-sea\\_mooring/oos-deep-sea-currentmeter-moorings.htm](http://www.nio.org/data_info/deep-sea_mooring/oos-deep-sea-currentmeter-moorings.htm)

OceanSITES <http://www.oceansites.org/network/index.html>

1 Indian Mooring reporting via GTS April 2010. 15 USA/India moorings are operational May 2010. Observations include SST(13), AT(15), WIND(12), RH(15), SSS(13), SLP(7) and others.  
<http://www.pmel.noaa.gov/tao/disdeld/disdeld.html>

XCTD/XBT/TSG	Three lines: Chennai-Port Blair-Calcutta; Chennai-Singapore and Mumbai-Mauritius. Bi-monthly.
ARGO	73 active May 2009. <a href="http://www.incois.gov.in/Incois/argo/argo_National_Centre.jsp#">http://www.incois.gov.in/Incois/argo/argo_National_Centre.jsp#</a>
Sea Level	5 GLOSS MSL stations, most recent data posted by PSMSL 2006.  SELMAM Project: 10 “modern” (8 new) sites have been established. One GLOSS site included in the 10 – Visakhapatnam  2 GPS positioned stations, one (Vishkhapatmam) is GLOSS <a href="http://www.sonel.org/spip.php?page=cgps">http://www.sonel.org/spip.php?page=cgps</a>
Bio/Chem	Chlororphyll, radioactivity, turbidity, hydrocarbons, nutrients. Dissolved oxygen measured on some moorings above. see coastal below
Carbon	GOA time series, 2003-2012, 15N-72E, monthly East Indian Coast Time Series, 2007-2012, 15-20N, 80-85E Seasonal. Bay of Bengal, 2008-2013(proposed) 20N, 90E, seasonal
Satellite	OCEANSAT-1, IRS-P4 1999-2005, Color/biology and SST OCEANSAT-2 (OCM – ocean color, Scat), ROSA (Radio-occultation) Scatterometer – launched 9/2009. <a href="http://www.isro.org/satellites/oceansat-2.aspx">http://www.isro.org/satellites/oceansat-2.aspx</a>  INSAT-3A operational since 2003. INSAT-3D planned 2010, improved 6 Channel Imager and 19 Channel Sounder.  KALPANA-1 (Formerly METSAT), SST <a href="http://www.imd.gov.in/section/satmet/dynamic/daily_sst.htm">http://www.imd.gov.in/section/satmet/dynamic/daily_sst.htm</a>
Sea Ice	Annual Antarctic cruises since 1980
VOS	199 ships operating 5/6/2010, 62 on GTS, potential 264 ships 22 active VOSclim ships active. <a href="http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html">http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html</a>
Coastal	COMAPS (monitoring health of coastal waters) – 80 sites, 25 biological and chemical parameters. ICMAM – Integrated Coastal Marine Area Management program has monitored coral (Andaman) and shoreline changes at Ennore, Gahirmatha and along the coast of Kerala. SeagrassNet project at Andaman Is.

<http://www.seagrassnet.org/index.html>