

# France

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National Contact: **Mr. Francois Gerard**  
[Francois.Gerard@meteo.fr](mailto:Francois.Gerard@meteo.fr)

## Summary of operational and planned GOOS participation

### Observations

### Comments

Surface Drifters	87 active and on the GTS February 2010 (JCOMMOPS) of which 12 are French and the balance EU.
Waves	2 directional wave riders near Antilles: Martinique and Guadeloupe. See also WaMOS <a href="http://www.oceanwaves.de/">http://www.oceanwaves.de/</a>  Coastal Moorings, 7-8, mainly wave riders operated by Port Authorities.
Moorings	See following site for status updates and planned cruise schedules etc for PIRATA- Jazz, Java, Soul, Valse, Gavotte. <a href="http://www.pmel.noaa.gov/pirata/pir_implement.html">http://www.pmel.noaa.gov/pirata/pir_implement.html</a>  Ocean Met Stations: Brittany, Gascogne, two off Antilles, one off Nice and Gulf of Leon  Maintenance of TAO moorings along 165E and 180E  Sea ice buoys (IABP, IPAB) on behalf of EUM, 2 in 2006 and 8 planned in 2007  CLIOKER, a re-occupation of KERFIX off Kerguelen (operating since 1998) with associated XBT and CTD measurements. Funding expected for 10 years.  JCOMMOPS reports 17 French and 16 PIRATA (attributed to BR/FR/US) moorings reporting via the GTS February 2010. 7 additional moorings are attributed to Europe.  OceanSITES see <a href="http://www.oceansites.org/network/index.html">http://www.oceansites.org/network/index.html</a>
XCTD/XBT/TSG	Operates 6 Atlantic and 3 Pacific ships with probe support from NOAA. Some BATHY messages are submitted for distribution on the GTS. Cooperates in Med GOOS MFSTEP XBT program and Southern Ocean high density program on line IX28.  Some SOOP ships equipped with TSGs, Atlantic and Pacific.

ARGO/PORVOR	176 (162 plus 14 Gyroscope-EU) active February 2010. 40 deployments planned 2010 as of February 2010.
Sea Level	12 GLOSS MSL stations. Latest data posted by PSMSL is 2008. January 2010 data posted by the Hawaii FAST Data Center. 13 centers report in FAST mode.  10 GPS positioned stations, 5 are GLOSS MSL and FAST. <a href="http://www.sonel.org/stations/cgps/survey/survey.cgps.html">http://www.sonel.org/stations/cgps/survey/survey.cgps.html</a>  ESEAS Participant <a href="http://www.eseas.org/abouttheseas/?page=members">http://www.eseas.org/abouttheseas/?page=members</a>  See also: <a href="http://www.gloss-sealevel.org/publications/documents/france_gex2007.pdf">http://www.gloss-sealevel.org/publications/documents/france_gex2007.pdf</a>  Re-establish Dzaoudzi and Nuku Hiva in 2008
ADCP	On research vessel transits. Data are available at: Thermosalinograph: <a href="http://www.coriolis.eu.org/cdc/tsg_and_buoy_data.htm">http://www.coriolis.eu.org/cdc/tsg_and_buoy_data.htm</a> ADCP: <a href="http://www.ifremer.fr/sismer">http://www.ifremer.fr/sismer</a> <a href="http://www.coriolis.eu.org">http://www.coriolis.eu.org</a>
Time Series	A25, every other year. Completed June 2002, 2004, 2006 and 2008. <a href="http://www.ifremer.fr/lpo/ovide">www.ifremer.fr/lpo/ovide</a> Ocean Indien Service d'Observations (OISO). Biannual monitoring of hydrographic and biochemical measurements between La Reunion, Crozet, Kerguelan and Amsterdam Islands. Includes CO2, Met and ADCP measurements. Expected to continue biannually for 10 yrs. <a href="http://www.ipsl.jussieu.fr/services/Observations/fr/OISO/Campagnes.htm">http://www.ipsl.jussieu.fr/services/Observations/fr/OISO/Campagnes.htm</a> <a href="http://www.ipsl.jussieu.fr/services/Observations/fr/OISO/Stations.htm">http://www.ipsl.jussieu.fr/services/Observations/fr/OISO/Stations.htm</a>  GOODHOPE project to monitor the line from Cape Town to German Antarctic base Neumayer. <a href="http://www.ifremer.fr/lpo/speich/GOODHOPE/goodhope.htm">http://www.ifremer.fr/lpo/speich/GOODHOPE/goodhope.htm</a>
BIO/Chem	North Sea International Bottom Trawl Survey participant since 1978. 2169 hauls obtained through 2009. French Southern Atlantic Bottom Trawl Surveys conducted 1997-2007, 1503 hauls obtained. <a href="http://www.go-ship.org/RefSecs/Table_RefSecs1.4.pdf">http://www.go-ship.org/RefSecs/Table_RefSecs1.4.pdf</a>
Carbon	OISO Indian Ocean, from 1998-2008, planned 2/yr <a href="http://cdiac.ornl.gov/oceans/VOS_Program/OISO.html">http://cdiac.ornl.gov/oceans/VOS_Program/OISO.html</a> IRIZAR Project with Argentina, Buenos Aries-Antarctica,

	<p>2-4/yr, 2007-  France-French Guiana ~6/yr, 2006-  France-Brazil ~6/yr, 2007-  Charleston-Reykjavik with USA, 12/yr, 2005-  EGEE, Gulf of Guinea 3/yr  Hobart-Dumont D'Urville with Australia. Began Oct 2002,  same schedule as HD XBTs (5-6/yr).  OVIDE with Spain, Greenland –Lisbon 2004, planned every  2 years.  CARIOCO buoys, 2005-2009, Atlantic Southern Ocean.  Marel-Louise (mooring) continuous (CARIOCA sensor)  Monthly monitoring at 43N-7.9E, Med/DYFAMED  A25 (see Time Series above).</p>
Satellite	<p>JASON-1, 07/12/01, Ocean Surface Topography  JASON-2, launch 2008, sea surface topography  ENVISAT (ESA), 2002-2010, SST and Ice  <a href="http://envisat.esa.int">http://envisat.esa.int</a>  SMOS, Ocean salinity, launched November 2009, ESA  <a href="http://www.esa.int/esaLP/smos.html">http://www.esa.int/esaLP/smos.html</a>  CRYOSAT-2, Polar Ice. Launch 11/2009, ESA  SARAL-ALTIKA mission with India, Autumn 2010 Launch.  AltiKa is a Ka-band altimeter system, dedicated to accurate  measurement of ocean surface topography.  <a href="http://smc.cnes.fr/SARAL/index.htm">http://smc.cnes.fr/SARAL/index.htm</a>  METOP-A, launched 2006, B and C to be launched 2012 and  2016, SST <a href="http://www.esa.int/export/esaME/">http://www.esa.int/export/esaME/</a>  GOCE (ESA) satellite, launched 3/2009, will provide insight  into ocean circulation and sea-level change etc.  Centre ERS d'Archivage et de Traitement  <a href="http://www.ifremer.fr/cersat/en/general/general.htm">http://www.ifremer.fr/cersat/en/general/general.htm</a></p>
VOS	<p>28 VOS and 10 VOSCLim ships active 15 February 2010. Target  is 20 active VOSCLim ships.  <a href="http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html">http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html</a></p>
ASAP/WRAP	<p>E-ASAP (European), 4 ships.  WRAP – provides support and funds</p>