

# Canada

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## Summary of operational and planned GOOS participation

### Observations

### Comments

Surface Drifters	25 operational and on the GTS February 2010
Waves	25 Buoys (see moorings below). See WaMOS <a href="http://www.oceanwaves.de/">http://www.oceanwaves.de/</a>
Moorings	Buoy status report: <a href="http://shylock.pyr.ec.gc.ca/~wbs/bplatstat.html">http://shylock.pyr.ec.gc.ca/~wbs/bplatstat.html</a>  Pacific off shore and coastal moorings: <a href="http://www-sci.pac.dfo-mpo.gc.ca/osap/data/newbuoy/Buoy_location_details_e.htm">http://www-sci.pac.dfo-mpo.gc.ca/osap/data/newbuoy/Buoy_location_details_e.htm</a>  AZMP -13 sections and 7 fixed hydro stations; 8 water level stations. <a href="http://www.meds-sdmm.dfo-mpo.gc.ca/zmp/main_zmp_e.html">http://www.meds-sdmm.dfo-mpo.gc.ca/zmp/main_zmp_e.html</a>  ANTARES participant – study of the long-term changes in the marine ecosystems around Latin America  Partner with US in the Gulf of Maine (GoMOOS) program <a href="http://www.gomoos.org/oceanobsnatl/">http://www.gomoos.org/oceanobsnatl/</a>  OceanSITES <a href="http://www.oceansites.org/network/index.html">http://www.oceansites.org/network/index.html</a> Papa Station and line AR7W  25 moorings overall reporting via the GTS February 2010
XCTD/XBT/TSG	Most Canadian XBT/CTD data (Navy, Ocean/Fisheries Research) are not submitted to the GTS. See monthly global maps of real-time ocean profile data at: <a href="http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/OCEAN/Realtime_e.htm">http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/OCEAN/Realtime_e.htm</a>
ARGO	119 active February 2010. 2 2010 deployments planned as of February
Sea Level	6 GLOSS MSL and 8 FAST delivery (5 are both modes). All FAST reporting well. January 2010 data posted at Hawaii. Latest MSL data posted by PSMSL 2008 (as of October 2009). <a href="http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/TWL/TWL_e.htm">http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/TWL/TWL_e.htm</a> <a href="http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/TWL/TWL_inventory_e.htm">http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/TWL/TWL_inventory_e.htm</a>

14 GPS positioned stations, 7 of which are FAST/MSL or one of the other. <http://www.sonel.org/stations/cgps/survey/survey.cgps.html>

TS Hydrographys

AR7W (Labrador Sea section) completed annually each late spring during WOCE and continuing. Initial cruise was July 1900. Last occupation 2009, planned for 2010. Barrows and Nares Straits 2009 and 2010. Davis Straits, 2009 and 2010 USA/Canada [http://www.go-ship.org/RefSecs/Table\\_RefSecs1.4.pdf](http://www.go-ship.org/RefSecs/Table_RefSecs1.4.pdf)

PR6 (Papa Line), 3 times/yr: Feb, May and Sept.  
[http://www-sci.pac.dfo-mpo.gc.ca/osap/data/linep/linepselectdata\\_e.htm](http://www-sci.pac.dfo-mpo.gc.ca/osap/data/linep/linepselectdata_e.htm)

Ocean station BRAVO – formerly by ship, now occasionally by mooring.

Bio/Chem

Carbon measurements:

A1W, annual 2004-. AR7W (Labrador to Greenland) annual since 1993  
P1 (Canada/Japan) 1995-2001 completed

P15N 2004, then every 5 years. PR6, 3 times/yr, PAPA line.

Extended Halifax line comprising AZMP and 4 additional stations in deep water annually

Soctian Shelf 44.68N 63.61W CARIOCA buoy, hourly 2007 –

Labrador Sea 57N-53W, 1/year

Arctic coastal waters, 1/year, 2004 -, ArcticNet Domain

Continuous Plankton Recorder on line Z (Iceland to Newfoundland) and line E (Newfoundland to Maine)

Satellite

RADARSAT 1 (1995) and 2 (2007). SAR-Ice improves ice-edge detection, ice-type discrimination, and ice topography and structure information. <http://www.asc-csa.gc.ca/eng/default.asp>

RADARSAT Constellation series which will meet the core demands of RADARSAT 2 are planned for launch in 2014, 2015 and 2016.

<http://www.asc-csa.gc.ca/eng/satellites/radarsat/overview.asp>

SMOS – <http://www.asc-csa.gc.ca/eng/satellites/smos/default.asp>

Sea Ice

Observations of sea ice concentration, extent and velocity off the coast of Labrador, in the Gulf of St Lawrence and in the Canadian Arctic. Also re-establishing key Arctic sea level gauges and sea ice thickness moorings

VOS

29 active VOS and 51 active VOSClimate February 2010. Potential 634 VOS and 56 VOSClimate.

<http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html>