

Canada

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Summary of operational and planned GOOS participation

Observations

Comments

Surface Drifters	34 operational and on the GTS January 2009 Drifters to be upgraded with barometers (20/yr 2006-2008)
Waves	25 Buoys (see moorings below). See WaMOS http://www.oceanwaves.de/
Moorings	Buoy status report: http://shylock.pyr.ec.gc.ca/~wbs/bplatstat.html Pacific off shore and coastal moorings: http://www-sci.pac.dfo-mpo.gc.ca/osap/data/newbuoy/Buoy_location_details_e.htm AZMP -13 sections and 7 fixed hydro stations; 8 water level stations. http://www.meds-sdmm.dfo-mpo.gc.ca/zmp/main_zmp_e.html 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 http://www.gomoos.org/oceanobsnat/ OceanSITES http://www.oceansites.org/network/index.html Papa Station and line AR7W Arctic Moorings – 45 in 2007 and 2008, 12 of which are to be supported by JAMSTEC, WHOI and UAF. 48 and 38 were active in 2005-6 respectively. 23 moorings overall reporting via the GTS January 2009
XCTD/XBT/TSG	Most Canadian XBT/CTD data (Navy, Ocean/Fisheries Research) are not submitted to the GTS.
ARGO	108 active January 2009. www.pac.dfo-mpo.gc.ca/sci/osap/projects/argo/default_e.htm
Sea Level	6 GLOSS MSL and 6 FAST delivery (4 are both modes).

All FAST reporting well. January data posted at Hawaii as of January 2009. Latest MSL data posted by PSMSL 2007 (as of October 2008). Re-established Nain (GLOSS) and installed Alert and Holman with GPS in 2002. Broughton Island (Qikitarjuak) and Tuktoyaktuk stations installed summer 2004.

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_inventory_e.htm

14 GPS positioned stations, 5 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, latest May 2008. PR6 (Papa Line), 3 times/yr: Feb, May and Sept 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.space.gc.ca/asc/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.space.gc.ca/asc/eng/satellites/radarsat/overview.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	78 Active VOS, potential 634 ships VOSCLim Participant – 46 active January 2009, target 56.