

Canada

May 2010

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Summary of operational and planned GOOS participation

Observations

Comments

Surface Drifters	28 operational and on the GTS April 2010
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 Papa Station: http://www.pac.dfo-mpo.gc.ca/science/oceans/data-donnees/line-p/index-eng.htm#Map 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 http://www.bio.gc.ca/monitoring-monitorage/azmp-pmza/index-eng.htm 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/oceanobsvnat/ 32 moorings overall reporting via the GTS April 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: http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/OCEAN/Realtime_e.htm
ARGO	130 active May 2010. 29 deployments planned in 2010 as of May 2010
Sea Level	6 GLOSS MSL and 8 FAST delivery (5 are both modes). April 2010 FAST data posted at Hawaii. Latest MSL data posted by PSMSL 2008 (as of October 2009). 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, 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, planned for 2010. Barrows and Nares Straits 2009 and 2010. Davis Straits, 2009 and 2010 USA/Canada

http://www.go-ship.org/RefSecs/Table&Meas_May2010b.pdf

<http://www.bio.gc.ca/monitoring-monitorage/azomp-pmzao/labrador/labrador-eng.htm>

PR6 (Papa Line), 3 times/yr: Feb, May and Sept. See moorings above

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

496 VOS ships operating 5/6/2010, 64 on GTS, potential 634

52 active VOSclim ships May 2010

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