

## SOOP Report for 2009

## Canada

<b>Programme description: ISDM operates the real-time component of GTSP. All data collected from the GTS are processed at ISDM and then forwarded 3 times per week to the US NODC. They assemble the delayed mode versions of the real-time data and replace the real-time by higher resolution, higher quality delayed mode versions when available.</b>			
<b>a. DFO Canada also operates line sampling in waters around Canada, though these are not part of international SOOP lines. This sampling is described in the table.</b>			
<b>Line</b>	<b>Agency</b>	<b>Sampling programme and target mode (if applicable)</b>	<b>No. of ships</b>
Bonavista	DFO-Canada	Atlantic Zonal Monitoring Program, research vessels – 4 times a year	2 (research)
Flemish Cap	DFO-Canada	Atlantic Zonal Monitoring Program, research vessels – 4 times a year	2 (research)
Seal Island	DFO-Canada	Atlantic Zonal Monitoring Program, research vessels – 4 times a year	2 (research)
South East Grand Banks	DFO-Canada	Atlantic Zonal Monitoring Program, research vessels – 4 times a year	2 (research)
Halifax	DFO-Canada	Atlantic Zonal Monitoring Program, research vessels – 4 times a year	2 (research)
Louisbourg	DFO-Canada	Atlantic Zonal Monitoring Program, research vessels – 4 times a year	2 (research)
Cabot Strait	DFO-Canada	Atlantic Zonal Monitoring Program, research vessels – 4 times a year	2 (research)
Line P	DFO-Canada (IOS)	Line-P Time Series Program	1
AR7W	DFO-Canada (BIO)	Line AR7W, Labrador Sea	1

<b>b. Data management</b>		
<b>Agency</b>	<b>No. of JJVV messages on the GTS in 2008</b>	<b>Location of delayed-mode data</b>
ISDM	1157 (JJVV from at least 4 ships)	ISDM, US NODC
	1853 (KKYY from at least 11 ships)	ISDM, US NODC
	3865 (KKYY from Argo floats)	ISDM, USGODAE, IFREMER

**c. Major challenges and difficulties:**

Identification of real-time and delayed mode versions continues to be a challenge.

Increasing data volume in other programs requires increasing efforts to visually quality control the data and report on ship performance overall.

**d. Research / development / testing:****e. Other comments:**

Many of the BATHY reports are from the Canadian Navy ships, but the ships are not identified individually.

ISDM inserted 5718 TESACS (1853 from ships, 3865 from Canadian Argo floats) onto the GTS.

ISDM continues to produce monthly reports showing maps of BATHYs and TESACs collected and maps of reporting along SOOP lines.

ISDM produces a report which lists platforms who report 10% or more profiles with at least one doubtful quality data point monthly.