



Report of the RNODC for Drifting Buoys

DBCP-XXVIII
Fremantle, Australia
2 – 6 October 2012

Integrated Science Data Management

Joe Linguanti
for Sylvain de Margerie

*Claude Guay
Mathieu Ouellet
Graham Glenn
Luc Bujold*

*Krista Sun
Bruce Bradshaw
Diana Cardoso
Anh Tran*



GTS Message Bulletins, Processing & Archival

Archive Record Counts by Bulletin Header *

SSVX02	KARS	7802300
SSVX13	LFPW	857581
SSVX08	KARS	348430
SSVX02	LFPW	312672
SSVX02	CWAO	268774
SSVX13	LFPW	226044
SSVX11	LFPW	133757
SSVX13	KARS	114583
SSVX06	KARS	82172
SXPA01	KWNB	78880
SSVX01	DEMS	45818
SSVX12	KARS	41412
SSVX04	CWEG	33330
SSVX05	CWAO	26699
SSVX07	LFPW	24983
SSVX03	LFPW	22317
SSVX07	KARS	19770
SSVX04	KARS	11973
SSVX12	LFPW	8206
SSVX08	LFPW	4897
SSVX01	LFPW	4009
SSVX02	CWEG	998
SSVX06	LFPW	989
SSVX01	RJTD	442
SSVX11	KARS	174
SSVX04	LFPW	41
SSVX03	KARS	19
SSVX01	KARS	2
Total		10471272

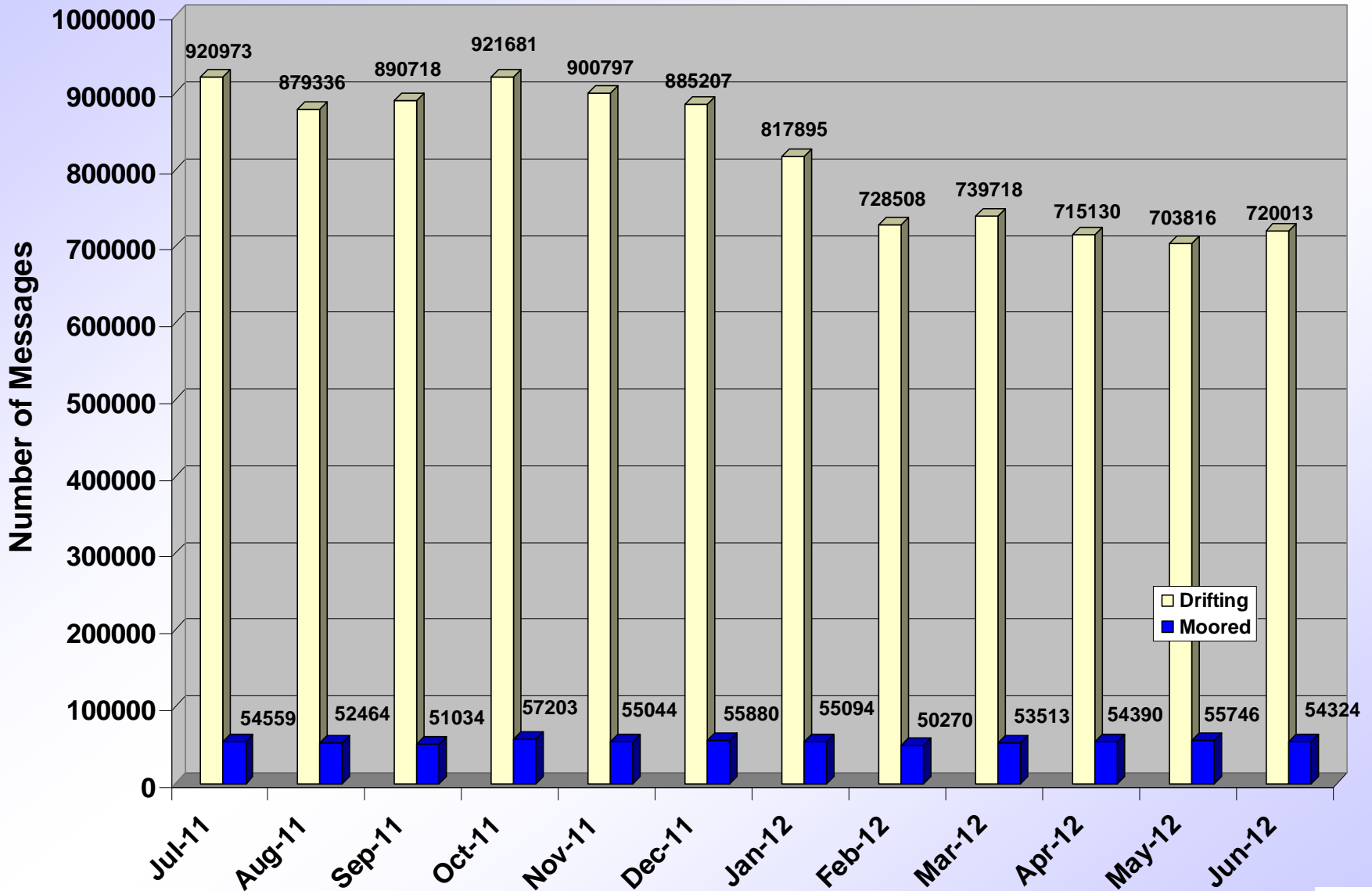
- Several times per day individual FM-18 Buoy Code messages are decoded to a monthly assembly archive. Messages that fail the automatic decode are sent to an interactive message recovery/repair procedure.
- Each month all decoded messages from the previous calendar month are processed to remove duplicates and identify the 'best version' of each.
- A system of automatic and interactive QC procedures assigns IGOSS quality flags to the position, time and measured parameters of each unique buoy report.
- The main archive is normally updated at the end of the second week of the following month.
- At this time our primary source of archive messages remains BUOY Code.
- BUFR message reports are decoded and archived as is until such time as we switch to BUFR as the primary data source.

* *BUOY Code, July 2011 to June 2012*

Drifting and Moored Buoy Reports

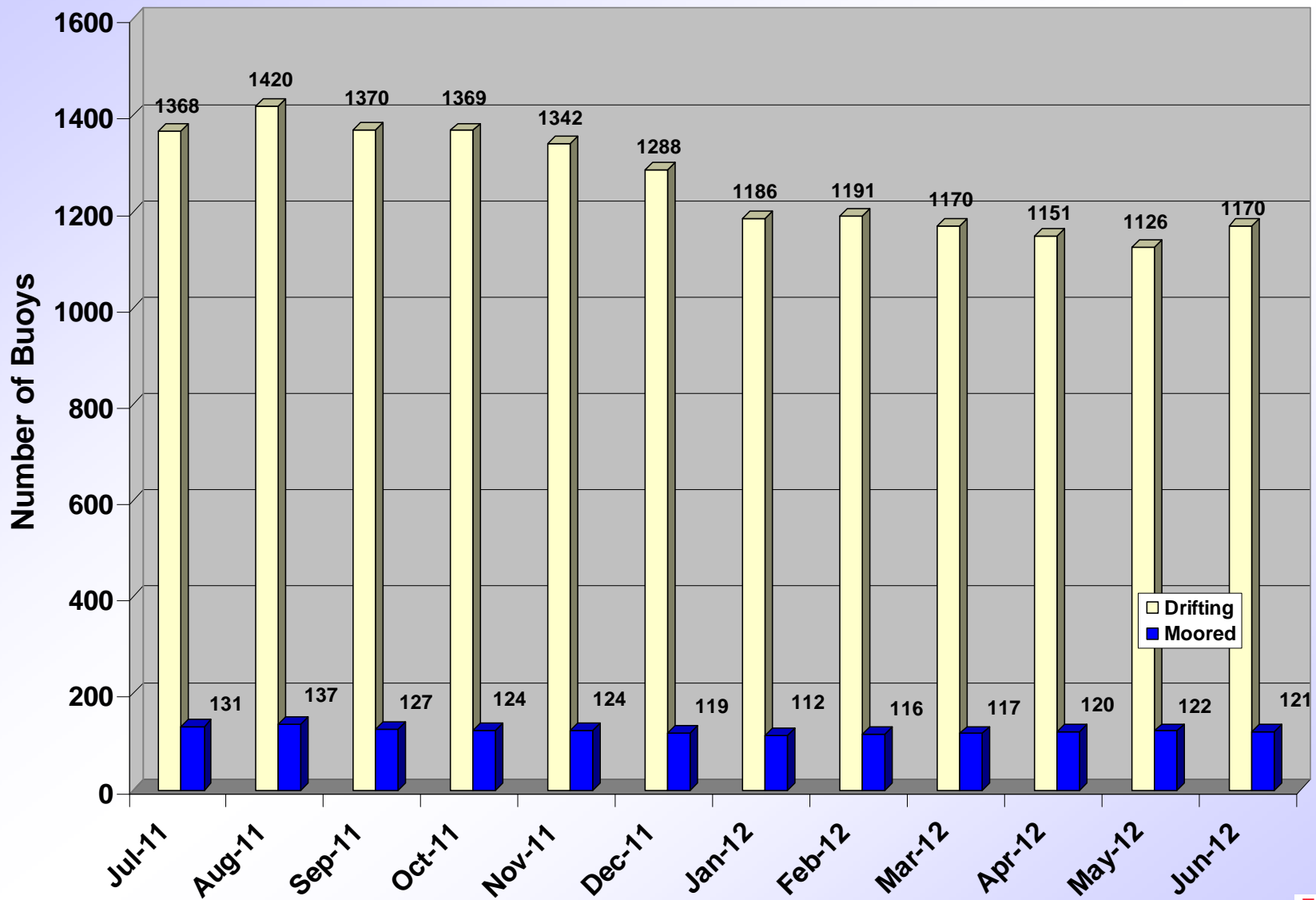
July 2011 to June 2012

10, 473, 313 Unique Buoy Messages Archived

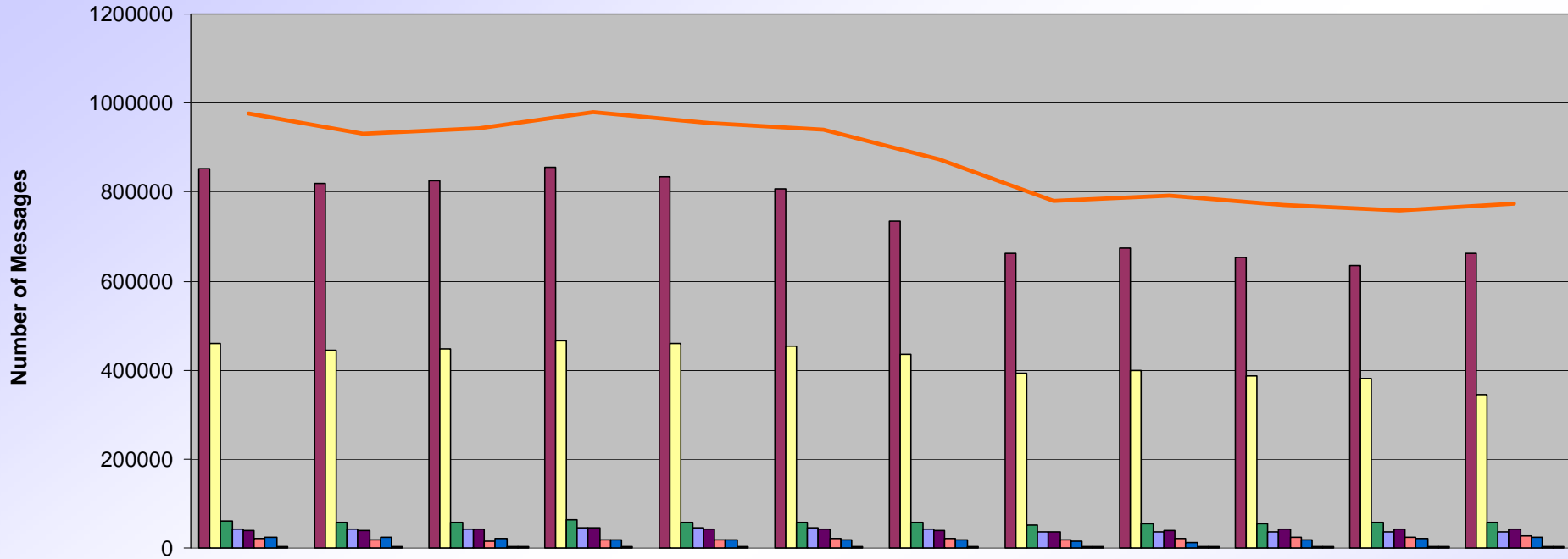


Numbers of Drifting and Moored Buoys

July 2011 to June 2012
2537 Unique Platform ID's Reported Data

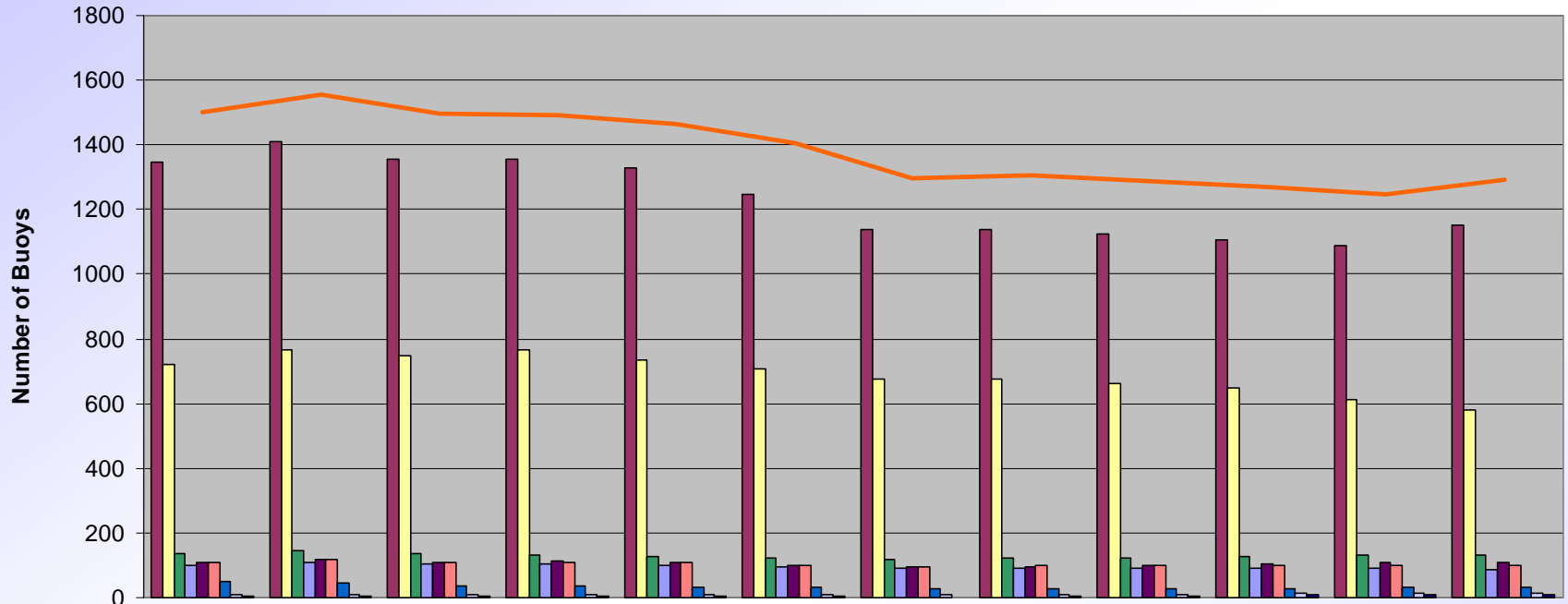


Messages with Meteorological and Oceanographic Parameters



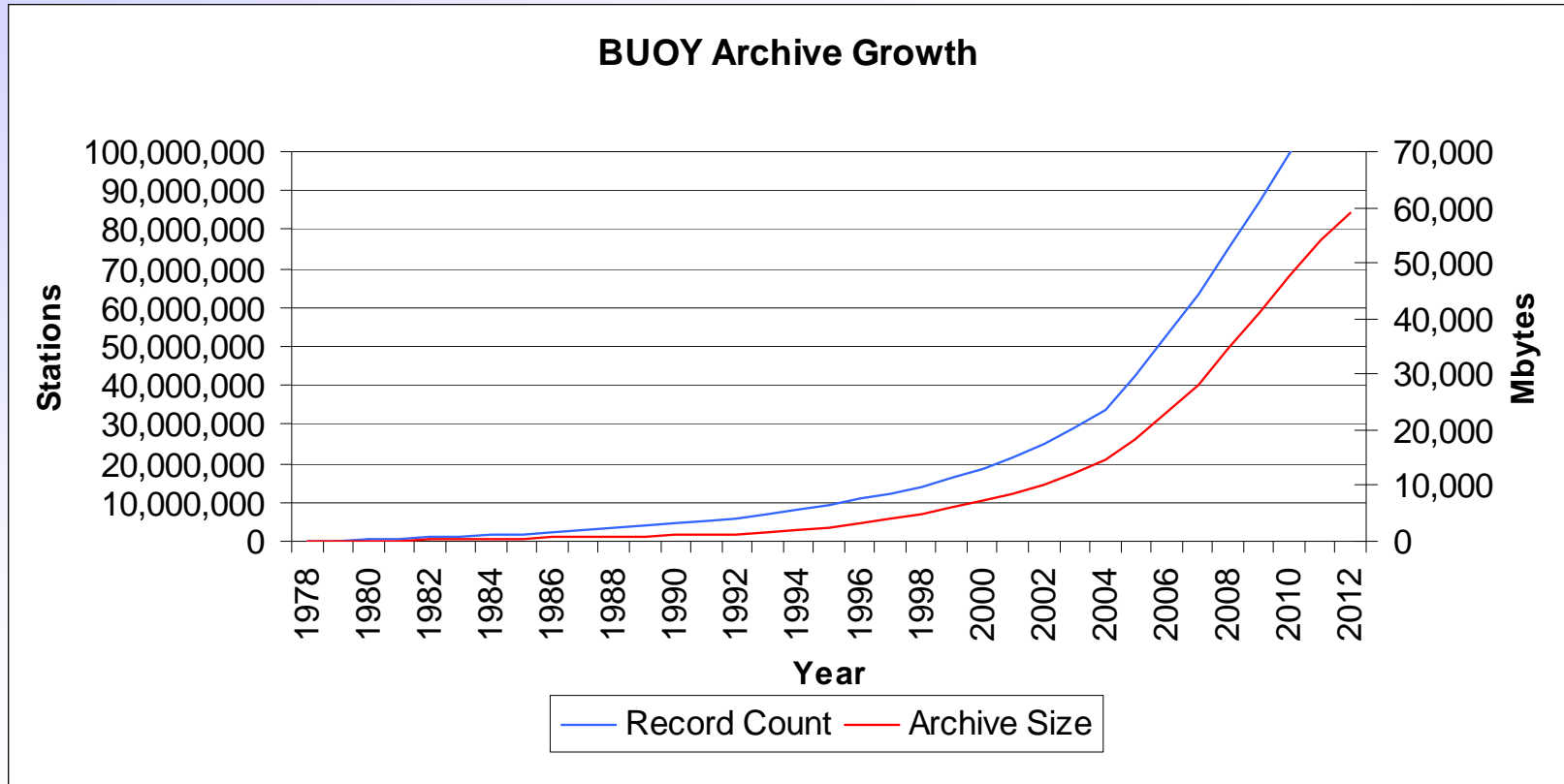
	2011-07	2011-08	2011-09	2011-10	2011-11	2011-12	2012-01	2012-02	2012-03	2012-04	2012-05	2012-06
Surface Temp	852116	818535	824148	854863	835103	807592	735923	661661	673632	653575	635920	661324
Air Pressure	458881	445432	446392	466229	458850	453478	435083	392199	400328	387912	381660	345851
Air Temp	59133	56614	57664	62835	57614	57906	57540	51733	54308	55602	58703	57073
Rel Humidity	41018	40951	41782	45962	43917	44323	40958	36198	37179	36493	37254	35813
Wind Spd & Dir	40443	40447	41374	46338	43659	43601	40785	37587	38731	41415	42965	42205
Profiles	19918	16949	16065	17724	19002	21295	21152	19460	20394	22931	25345	27436
Surface Salinity	24919	24889	21586	19543	18992	18481	16972	14152	12652	17150	21769	23972
Wave Swell	1958	2375	2340	2698	2341	2654	2854	3020	3520	4219	4100	3715
Dew Temp	1379	1410	1573	1484	1294	1464	1320	1765	1829	3586	4288	3598
Total # of Msgs	975532	931800	941752	978884	955841	941087	872989	778778	793231	769520	759562	774337

Buoys with Meteorological and Oceanographic Parameters



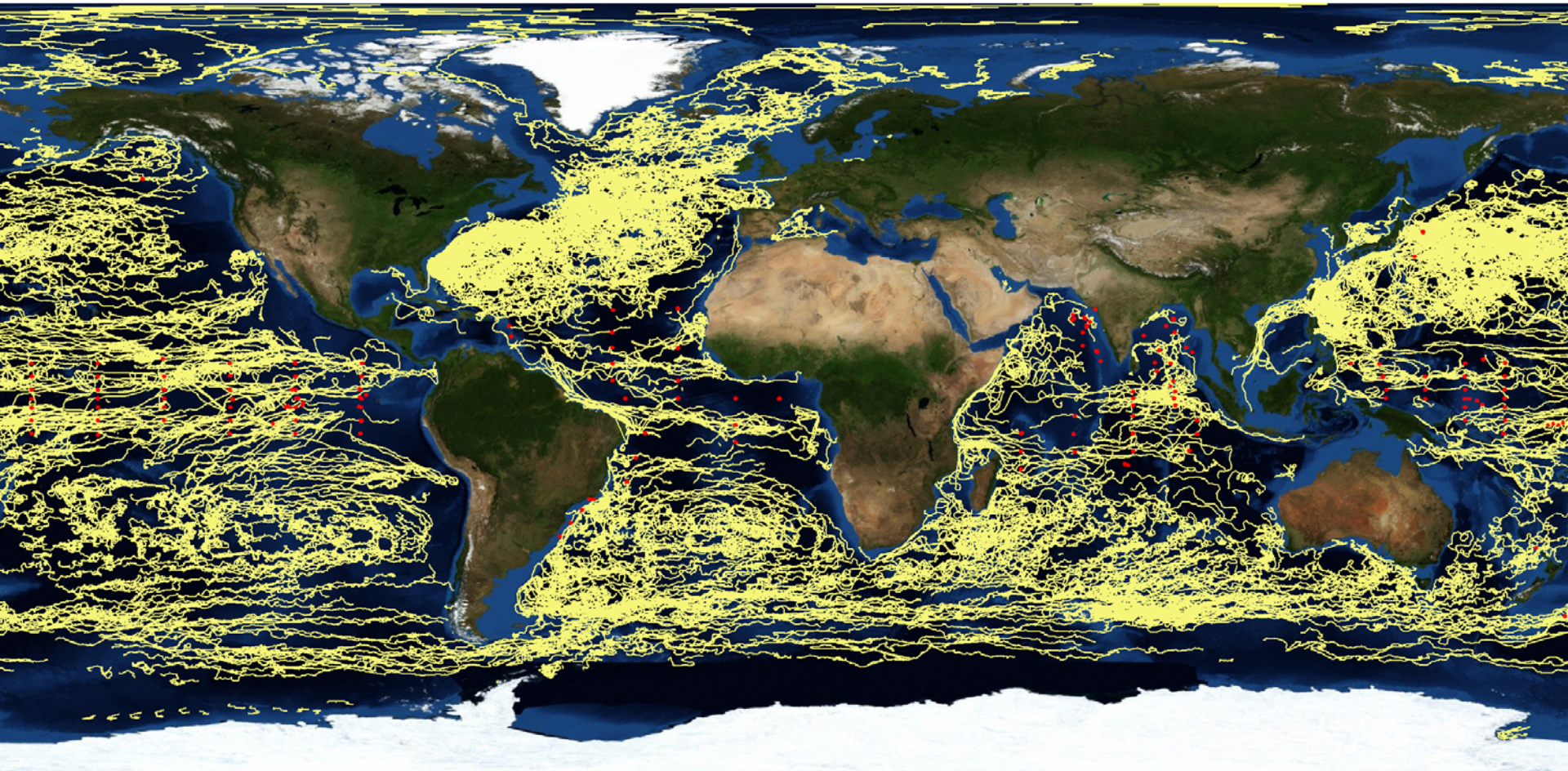
	2011-07	2011-08	2011-09	2011-10	2011-11	2011-12	2012-01	2012-02	2012-03	2012-04	2012-05	2012-06
Surface Temp	1348	1410	1355	1356	1328	1246	1136	1138	1126	1106	1090	1152
Air Pressure	723	765	748	767	736	709	674	677	660	648	610	582
Air Temp	138	144	134	132	127	123	118	122	122	128	133	131
Rel Humidity	100	109	103	103	102	97	89	91	89	90	91	87
Wind Speed & Dir	108	118	111	112	111	101	94	96	98	105	108	108
SubSurface Profiles	111	117	108	107	107	102	97	101	100	102	102	100
Surface Salinity	49	45	37	37	32	30	28	26	27	29	31	31
Wave Swell	7	9	9	7	7	8	7	8	10	12	12	12
Dew Temp	3	3	3	3	3	3	2	3	3	7	7	7
Total # of Buoys	1499	1557	1497	1493	1466	1407	1298	1307	1287	1271	1248	1291

Archive Growth



Buoys Tracks and Locations

July 2011 to June 2012



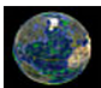
Monthly Buoy Data Now Available Online

<http://isdm.gc.ca/isdm-gdsi/drib-bder/kml/monthlykml.htm>

GTS Drifting Buoy Data Online

August 2010 GTS Buoy Data

The most recent month of Drifting Buoy data collected from the GTS and archived at ISDM is now available online for graphical viewing and download in ASCII CSV format.



[August 2010 Google Earth file after position QC \(1mb\)](#)
[August 2010 Google Earth file before position QC \(1mb\)](#)



[August 2010 buoy inventory \(.4mb\)](#)



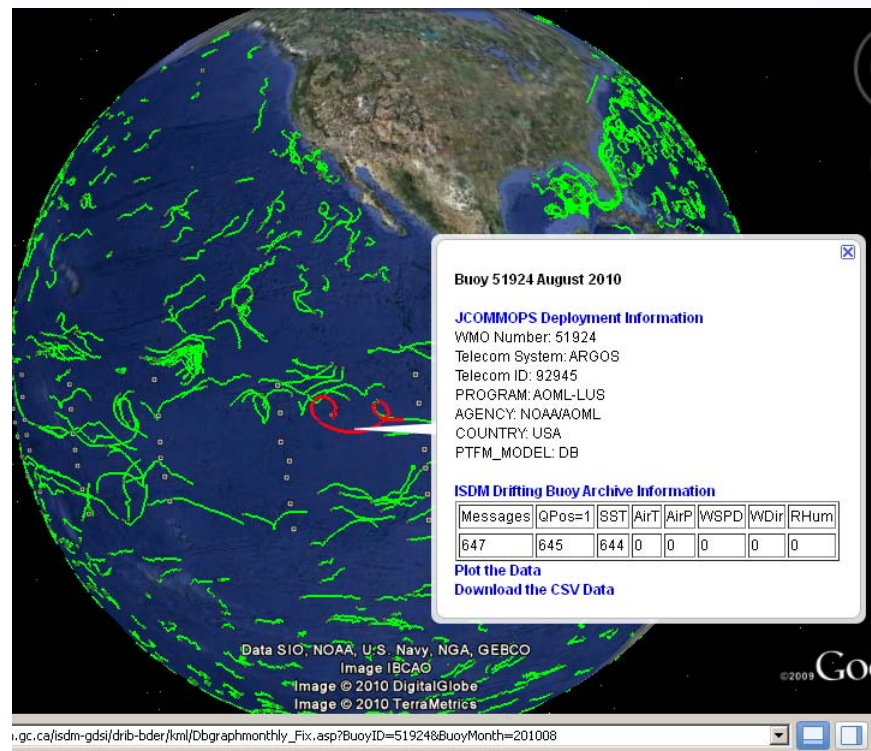
[Access to the CSV data through FTP](#)

After ISDM completes the monthly drifting buoy quality control process, a Google Earth KML file is prepared that shows buoy drift tracks for the previous calendar month. The KML provides some operational programme level meta-data with a link to JCOMMOPS as well as visual online displays of selected parameters archived at ISDM. These previous months data will normally be ready by the second week of the month.

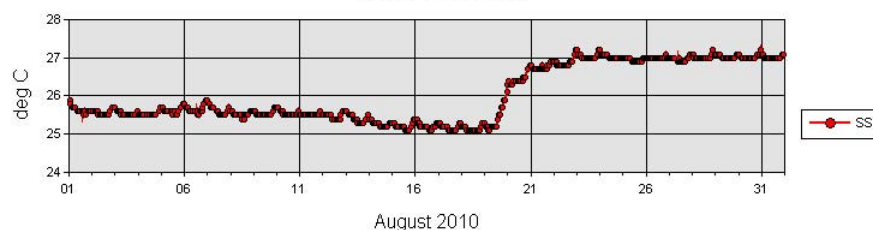
Alternatively the same data is available from our traditional text inventory report.

The data ISDM makes available online through this new application is in a modified CSV format with the same parameters as our traditional CSV format. All archived data is available is available by [request](#) going back to 1978.

Please direct any questions, problems, suggestions, or comments to [Bruce Bradshaw](#).



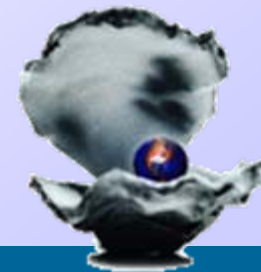
51924 - August 2010



- 50 data requests in the past 12 months
- Normal turn around time 3 days
- Requests primarily through the ISDM website, email and telephone
- New products, reports and services through the ISDM website

<http://isdm.gc.ca/isdm-gdsi/request-commande/form-eng.asp>

- ISDM continues to monitor GTS data received in BUOY Code and BUFR formats. Mayra, Pierre, Yann, Bruce and Kelly are working on a new Bulletin Header tracking process to ensure we are receiving all of the GTS message traffic.
- We continue to process and merged the most recent AOML SVP submissions into our archives. The KRIG, P&S and RAW web products by ocean basin are available online from the ISDM website. Please note that AOML is the primary and authoritative source for the SVP data www.aoml.noaa.gov/phod/dac/dacdata.php
- We are looking forward to working with JCOMM, WMO, IOC, SOC, NDBC and others to develop an improved Buoy Data Management System to modernize data flow and delivery through a network of Marine Meteorological and Oceanographic Data Centers. Sylvain de Margerie the Director of ISDM represented DFO and ISDM at the November MCDS workshop in Hamburg.



Hooroo!



Fisheries and Oceans
Canada

Pêches et Océans
Canada



Integrated Science Data Management Gestion des données scientifiques intégrées



English

Français

Canada

Joe Linguanti

for Sylvain de Margerie

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Anh Tran*

<http://isdms.gc.ca>