



jcommops



jcomm IN-SITU OBSERVING PLATFORM SUPPORT CENTRE



IV-3.1 JCOMMOPS

SOT Technical Coordinator



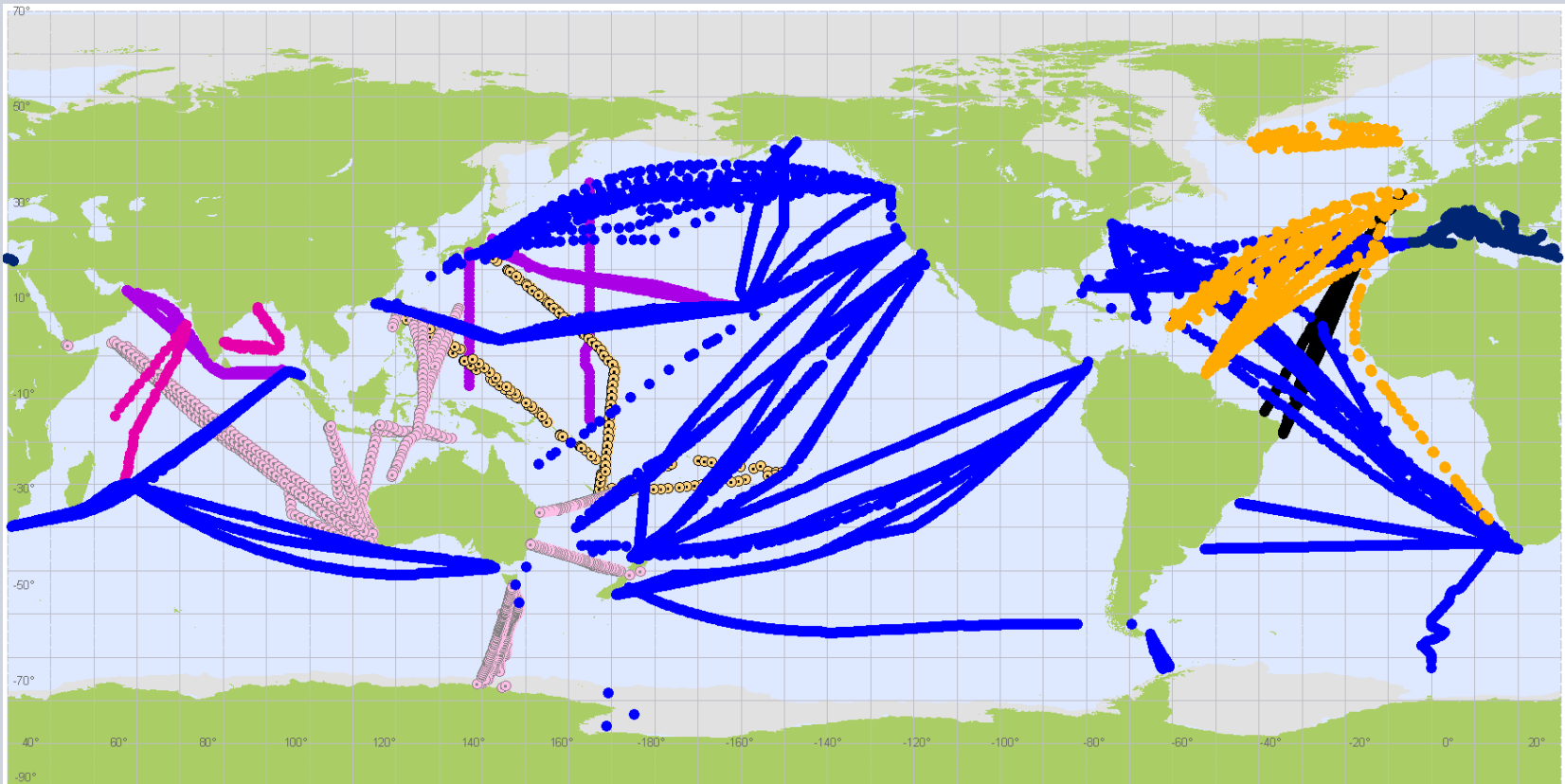
SOOP Annual sampling report

- SOOP annual sampling reports complete for 2006 and 2007
 - 2006 SOOP Line Sampling Report - finalised and metadata made available
 - in the final SOOP report
<http://www.jcommops.org/FTPRoot/SOT/SOOP/Survey/2006-Jan-Dec.zip>
 - and on the website at <http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators>
 - 2007 SOOP Line Sampling Report - finalised and XBT metadata made available
 - in the final SOOP report
<http://www.jcommops.org/FTPRoot/SOT/SOOP/Survey/2007-Jan-Dec.zip>
 - and on the website at <http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators>
- All SOOP annual metadata from the past 7 years is being exported to text files e.g.
 - http://www.jcommops.org/FTPRoot/SOT/SOOP/Survey/2006_metadata_soop.txt
 - http://www.jcommops.org/FTPRoot/SOT/SOOP/Survey/2007_metadata_soop.txt

SOOP Annual sampling report

- SOOP reports now include links to the relevant information on the SOOP website (not all data is included in the report itself)
 - <http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators.woa/wa/summary?line=PX40&year=2007&month=12>
- Submission of metadata by many SOOPIP data managers has been improved which speeds up report generation
- Some discrepancies were identified (since 2005) between the metadata provided for the SOOP Annual Sampling Report and the data reported on the GTS for the 12 months
 - Some Navy XBT (non-SOOPIP) data going onto the GTS
 - Some data delayed too long to appear on the GTS
- More details of recent results of XBT sampling along SOOP lines are given in the following slides
- A comparison of SOOP sampling success from 2002 – 2007 is also provided

2007 SOOP Sampling report



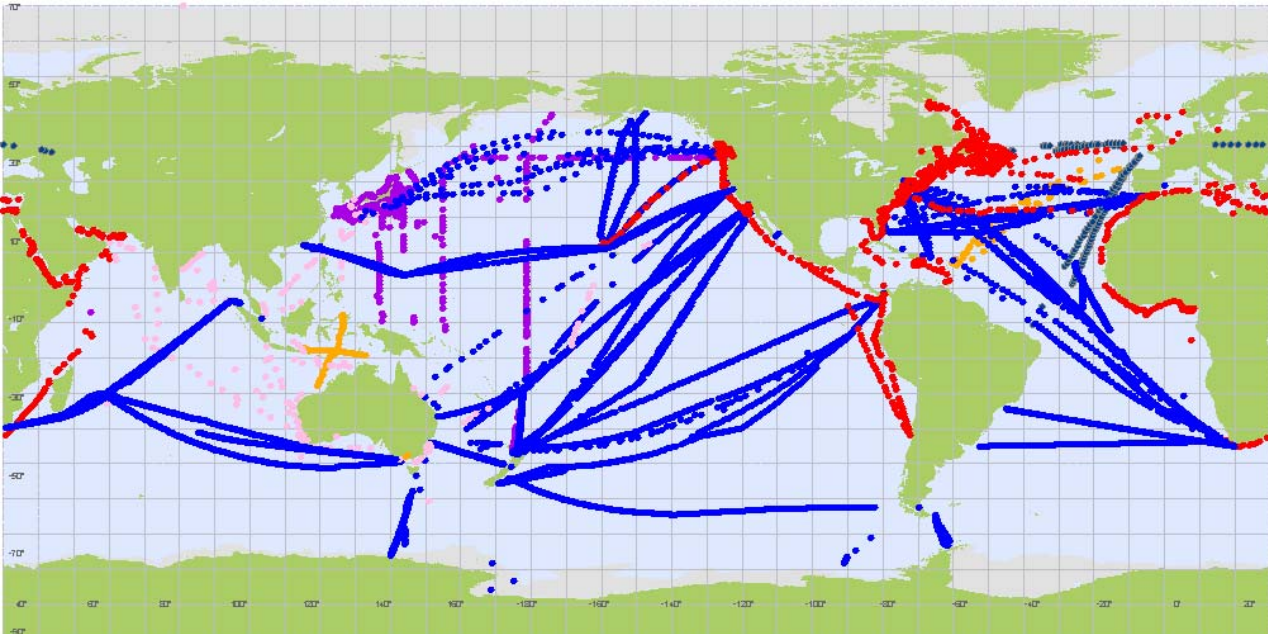
SOOP Annual Report. January - December 2007

XBT Profiles (18108) as submitted to the SOT Coordinator

● AUSTRALIA (3188) ● EUROPE (660) ● GERMANY (431) ● JAPAN (857) ● USA (11723)
● FRANCE (674) ● INDIA (341) ● NEW CALEDONIA (234)



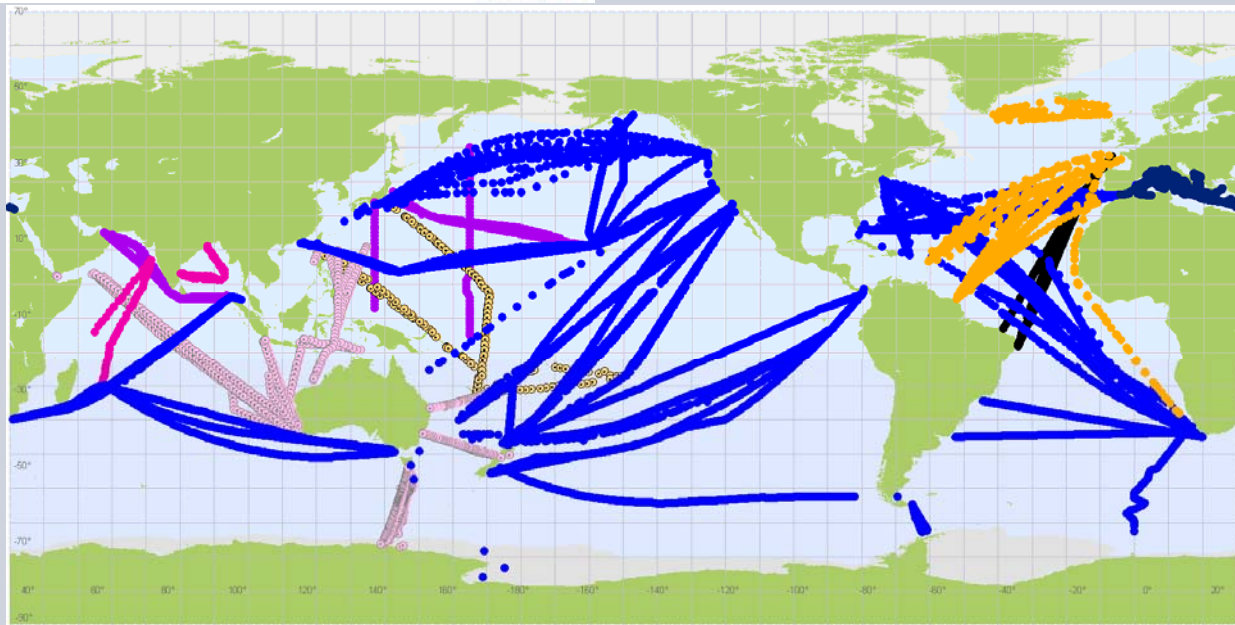
XBT Drops by country for the period January to December 2007



SOOP Annual Report. January - December 2007. XBT Reports (22888)

GTS data as provided by Météo France, Toulouse

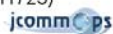
- BATHY GTS messages by GTS Centre**
- CWOW (Montreal) (1663)
 - KWBC (Washington DC) (18595)
 - RJTD (Tokyo) (1663)
 - AMMC (Melbourne) (238)
 - EDZW (Offenbach) (460)
 - LFPW (Toulouse) (269)



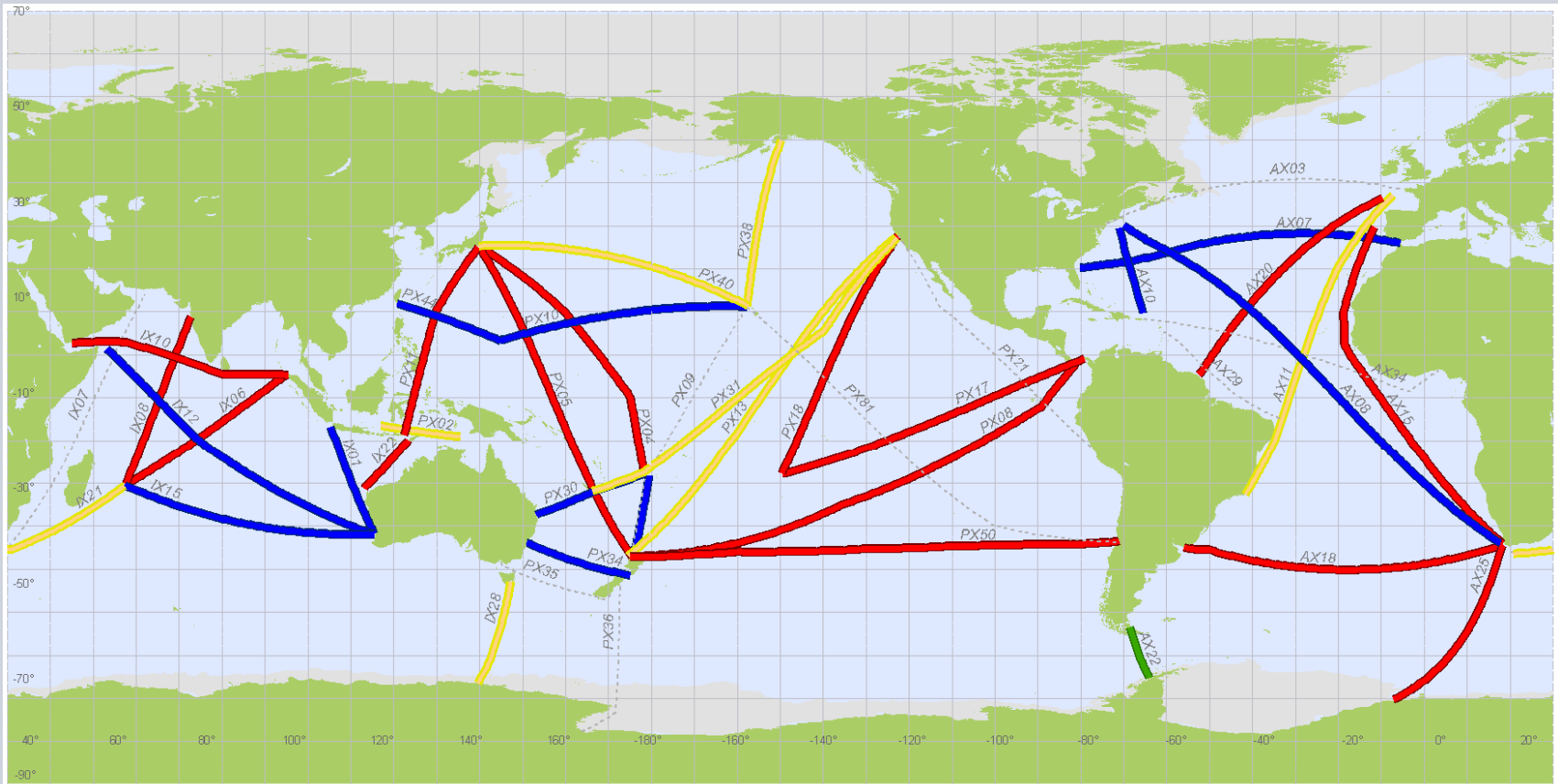
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2007 SOOP Sampling report



SOOP Annual Report. January - December 2007



UOT Review lines only ■ Well Sampled (11) ■ Oversampled (1) ■ 50% Sampled (8) ■ Undersampled (15) ---- Not Sampled (10)

XBT Line Sampling Success - January to December 2007

2008 SOOP Sampling report

- Preliminary results available for 2008 Line Sampling Report
 - Almost all XBT metadata has now been submitted for 2008 (19 350 drops)
 - timely submission of metadata is no longer a real problem
 - Initial results appear slightly better than 2007

SOOP Operator	2007	2008
BOM	1782	2454
BSH	431	551
CSIRO	1406	1314
IRD ()	674	626
IRD (Nouméa)	234	?
Japan JMA	245	268
JMA/JAMSTEC	406	376
Mediterranean MOON	660	532
NIO	341	264
USA SEAS	3877	4054
USA SEAS/SIO	7653	8248
SIO	193	549
TOHOKU-U	206	114
Total	18108	19350

Number of metadata records for drops submitted by SOOP Operators to JCOMMOPS for 2007 and preliminary 2008

Trends in SOOP Line Sampling SUCCESS

- Analysis of Line sampling 2002 - 2007 indicates that
 - 11 of 45 lines were consistently well-sampled / had improved over the period
 - 8 lines were consistently under-sampled / not sampled
 - 15 lines have decreased their sample quality over the period i.e. gone from being relatively well sampled to ~50% sampled or from ~50% sampled to being under sampled

	2002	2003	2004	2005	2006	2007	2008
Well sampled lines:	18	11	20	15	18	11	13
50% sampled lines:	8	8	8	2	3	8	7
Oversampled lines:	3	5	3	2	1	1	1
Undersampled lines :	6	9	3	15	14	15	9
Not sampled:	10	12	11	11	9	10	15

Summary of Sampling Success for UOT lines between 2002 and 2007 (Draft results for 2008)

Trends in SOOP Line Sampling SUCCESS



- Analysis of the 2002 – 2007 data highlights potential areas for improvement
more information in Doc. IV-3

Comparison result trend	Lines
Consistently good (8)	AX10, IX01, PX06, PX10, PX34, PX40, PX44, AX22
Improved (3)	AX07, AX08, IX15
Fluctuated (11)	AX03, AX11, AX18, AX25, AX29, IX12, IX21, PX08, PX30, PX31, PX37
Consistently bad / Not sampled (8)	IX06, IX07, IX08, IX09, PX04, PX11, PX21, PX36
Worsened (15)	AX15, AX20, AX34, IX10, IX22, IX28, PX02, PX05, PX09, PX13, PX17, PX18, PX38, PX50, PX81

SOOP line sampling performance trends 2002 – 2007

Remarks

- How to improve SOOP monitoring by JCOMMOPS?
 - Notification of “draft” plans by operators
 - TC needs to know operators activities
 - Any info will be valuable (e.g. quarterly at least)
 - Any format accepted (TC will arrange the details to provide homogeneous information)
 - Then we can compare obs / data, encourage/assist operators to distribute data, give visibility to modest contributions, ...
 - Monthly reports of metadata from operators
 - Routine exports could be useful (as BSH does)
 - Yearly reports by operators (to be continued)
 - Synchronisation with ESURFMAR ship database and others (Pub47 related, also for VOS)

Remarks

- Note that good planning/monitoring of SOT operations will help also:
 - a cooperation within SOT (SOOP/VOS)
 - a cooperation with other programmes (Argo, DBCP)
- Following the monthly maps some operators ask for details about some VOS ships that could be recruited for SOOP.

Conclusions

- Metadata will be used to:
 - Structure national/regional SOOP (SOT) contributions
 - Monitor implementation progress
 - Monitor and optimize data distribution
 - Encourage cooperation with other programmes
- TC will QC crucial metadata for each ship (SOT)
- JCOMMOPS monitoring products will be maintained and improved (RT, monthly, yearly) continuing on from the former TCs work.
- A monthly report will be provided (based on JCOMMOPS and others monitoring products)
- Please feedback, suggest, etc ... and keep the TC in the loop of you operations.