



jcommops

jcomm IN-SITU OBSERVING PLATFORM SUPPORT CENTRE



I-2.5 Report by the former SOT Technical Coordinator

Hester Viola

1 May 2007 - 31 January 2009

Technical Coordinator role



- Hester Viola was the SOT TC for the period May 2007 - January 2009
- Mathieu Belbeoch commenced in February 2009
 - Ship Observations Team (30% Mathieu Belbeoch)
 - Argo Profiling Float Program (70 % Mathieu Belbeoch)
 - Data Buoy Cooperation Panel (70 % Hester Viola)
 - OceanSITES reference station network (30 % Hester Viola)
- JCOMMOPS has employed the services of an IT expert (1/2 time) for Web Development on all programs

Meetings



- April 2007:
 - SOT-IV, ESURFMAR VOS TAG, Geneva
 - JCOMM Observations Coordination Group meeting, Geneva
 - Expert Team on Data Representation and Codes. Represented IOC and JCOMM, EUMETSAT, Germany.
- June 2007:
 - IOC Assembly meeting, Paris, France
 - IODE Buoy Training Workshop. Ostend, Belgium
- October 2007: 23rd Session of the Data Buoy Cooperation Panel (DBCP), and associated meetings, South Korea
- Dec. 2007: JCOMM Management Meeting, Paris
- March 2008:
 - XBT Fall rate equation workshop and Visit to OCO/NOAA, Miami, USA
 - Argo Steering Team meeting and SOT discussions, Met Office, Exeter, UK.

Meetings



- April 2008: OceanSITES Steering Team and Data Management Team meetings, Vienna.
- May 2008:
 - Third JCOMM Workshop on Advances in Marine Climatology CLIMAR, Poland.
 - E-SURFMAR Data Buoy TAG, Iceland.
 - International Arctic Buoy Program, Toulouse.
- September 2008: Attended the meeting of the WMO Expert Team on Data Representation & Codes on behalf of JCOMM, Geneva
- October 2008: 24th Session of the Data Buoy Cooperation Panel (DBCPC), and associated meetings, South Africa.
- November 2008: Attended the Changing Times (Ocean Time Series) Workshop and visited Scripps IO, USA.
- February 2009:
 - PIRATA and Tropical Atlantic meeting, Toulouse
 - Attendance and presentation at the annual meeting of the NOAA Observing System Monitoring Center, USA.
- March 2009: JCOMM Observations Coordination Group, Paris.



Priority tasks

The priority tasks during the inter-sessional period continued, as before, to be:

- SOOP Annual Surveys (see next slide)
- User consultation and meetings (e.g. OSMC, JCOMM)
- Monthly Maps (updates and additions) and reports on activities
- JCOMMOPS information system – metadata loading, reporting,
- Argos related issues, user assistance
- Metadata - ODAS, Meta-T (SOOP and VOS streams)
- VOS Quality monitoring mechanisms
- BUFR templates and Codes
- Training and knowledge transfer between TCs

Reports



- Data loaded from WMO PUB 47 for each quarter
- Some reports discontinued
- SOOP Survey data uploaded annually instead of twice a year
- SOOP Line Sampling Report
 - This report has been finalized up to December 2007
<http://www.jcommops.org/FTPRoot/SOT/SOOP/Survey/>
 - There is some (unchecked) data available for 2008
<http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators>
and some initial results were sent out for review
 - This SOOP Annual Line Sampling report was streamlined somewhat in the inter-sessional period
 - Some additional maps were also included in the SOOP Annual Line Sampling report to color code the relative success
 - Metadata from the report is now provided as text files

JCOMMOPS database and reporting

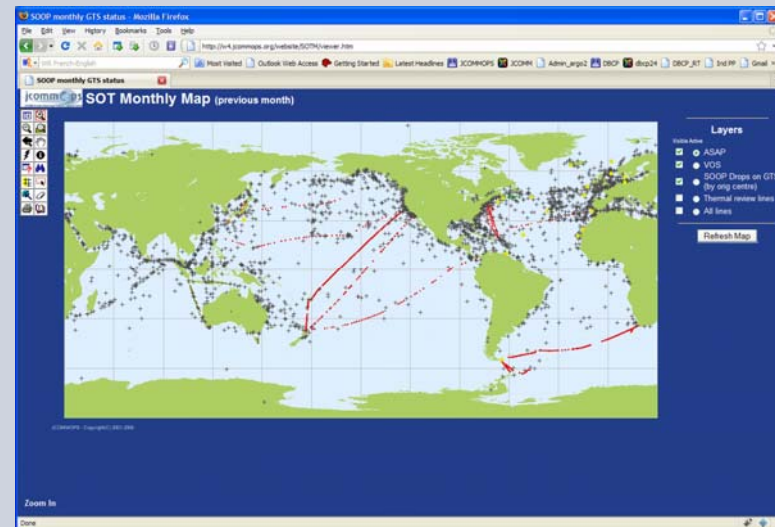
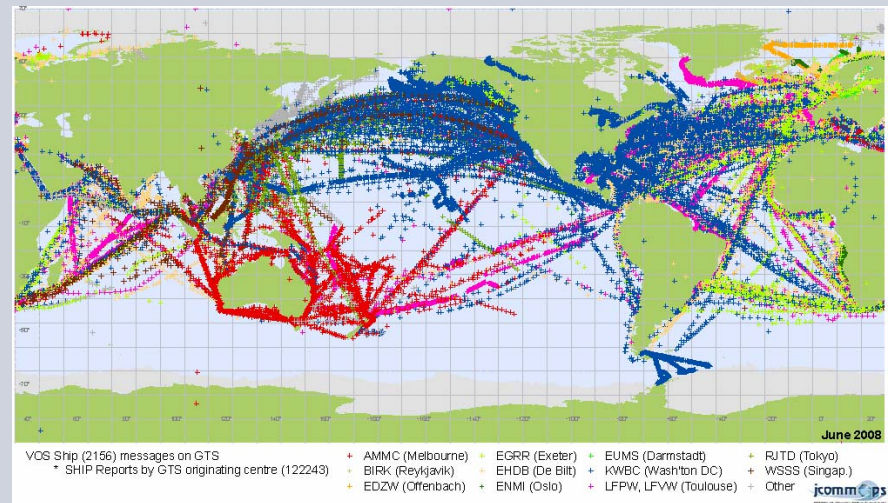


- Callsign Masking Scheme and Publication 47 metadata management have become a priority
- Focus on BUFR templates in the last inter-sessional period (2012 deadline for transitioning to BUFR for GTS data)
- JCOMMOPS database is not up-to-date or complete for Ship metadata
 - New and enhanced BUFR templates may assist with this in the medium term
 - New sources of metadata will be investigated
 - JCOMMOPS would like to receive inputs to the WMO PUB 47 each quarter

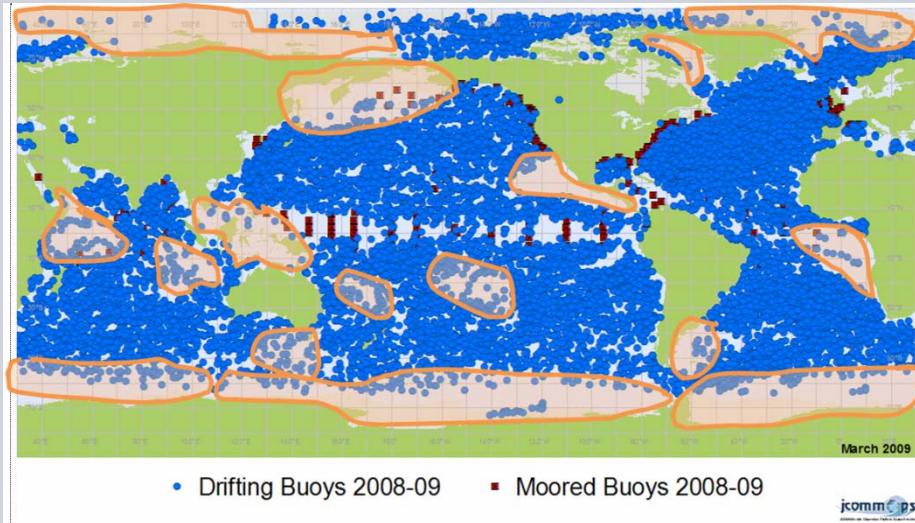
Monthly Maps



- Static monthly maps
 - Now available in one standardized format for all JCOMMOPS maps
 - PNG & PDF, with layers
- Dynamic maps also available for SOOPIP, VOS/ASAP, SOT and JCOMM (by platform and GTS Message format)
 - Web Map Services and Web Feature Services are available for these
 - Google Earth

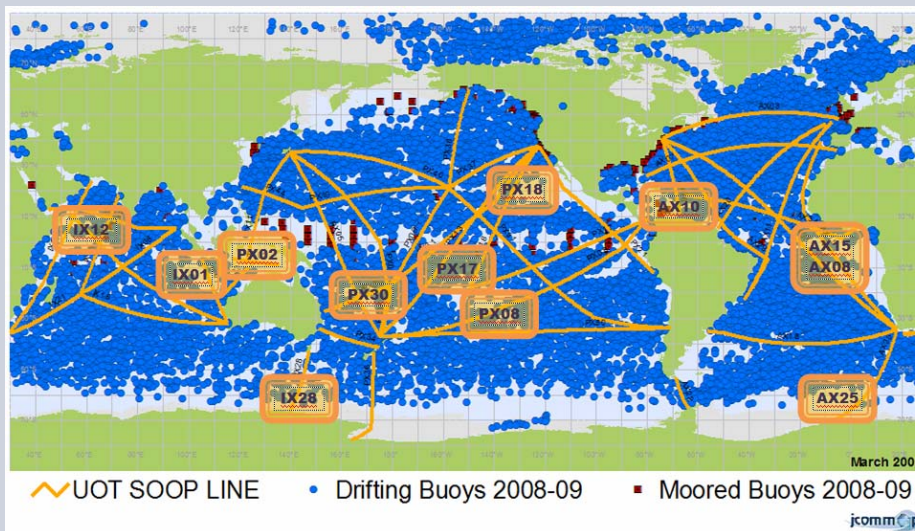


Deployment opportunities



There are possible deployment opportunities from Ships of Opportunity for other in-situ networks:

Positions of buoys at the end of the month for the last 15 months (2008-2009) indicating areas where there is little or no coverage for drifting buoys i.e. persistent gaps in the network in orange



SOOP lines overlaid on the drifting buoy locations in 2008-09, showing (orange boxes) which lines could be used to deploy drifters to fill gaps in the DBCP network

Communications



- **Mailing lists**

- sot@jcommops.org
- vos@jcommops.org
- vosclim@jcommops.org
- soopip@jcommops.org
- pmo@jcommops.org
- sot-tt-masking@jcommops.org New list added in 2008 - SOT Task Team on ship callsign masking
- All members of the SOOP and VOS lists now appear in the SOT general mailing list. .

- **Websites**

- **JCOMMOPS** <http://www.jcommops.org/>
 - News section of JCOMMOPS website not widely utilised - input sought
- **SOT:** <http://www.jcommops.org/sot/> - Cosmetic changes made
- **SOOPIP:** <http://www.jcommops.org/soopip/> - Cosmetic changes made
- **ASAPP:** <http://www.jcommops.org/sot/asapp/> - some content added
- These all need to be updated and better integrated

- **VOS:** Maintained by Australian BOM

Recommendations



- Suggested changes to JCOMMOPS website
 - application to browse Callsign Masking information (both password protected)
 - include new SOT and SOOPIP sites with better usability and consistency
 - integrated Quality Information Relay tool (with up-to-date Publication 47 data)
- Identify any new deployment opportunities
- Review the role and responsibilities drafted for M Belbeoch
- JCOMMOPS to receive copies of Publication 47 submissions from the WMO
- Please address all correspondence to: support@jcommops.org

Future Plans Actions



- Fully implement the Callsign Masking database
- Develop tools to browse Callsign Masking information (password protected)
- Re-developments of JCOMMOPS websites
- Enhancements to the Quality Information Relay Tool
- Maintain copy of up-to-date Publication 47 data

JCOMMOPS Technical Coordination Reminder



- Programs now supported by JCOMMOPS
 - **Ship Observations Team (30% Mathieu Belbeoch)**
 - Argo Profiling Float Program (70 % Mathieu Belbeoch)
 - Data Buoy Cooperation Panel (70 % Hester Viola)
 - OceanSITES reference station network (30 % Hester Viola)
- 1/2 time web developer now employed to assist on all programs

SOT TC: Feb.-May 2009 Activities



- Mathieu Belbeoch – Argo Technical Coordinator since 2001, within JCOMMOPS
- Meetings: JCOMM OCG, AST10 / ASW3, Argo Gabon, Google Ocean/Scripps, MyOcean
- SOT specific tasks
 - Call Sign masking (FTP, database design, scripting load/export)
 - New GIS management (& Google Earth)
 - year, previous month, current month (daily update)
 - SOT Monthly report embryo (new maps, stats)
 - Discussions and knowledge transfer with H. Viola
- Training and working with IT person, student
- Argo, JCOMMOPS tasks (administration, Information System, ...)
- JCOMMOPS and Argo papers for Oceanobs'09

SOT TC: Plans



- **Focal point:** keep a day to day contact with people implementing the observing systems
- Develop and maintain an efficient (web based) information system to relay and share all programme information
- Provide a rigorous **monitoring** from the planning of observations to the data distribution
- Invent new tools to evaluate network performance
- Provide regular status reports
- Provide a reactive **assistance** within the research/operational and oceano./marine met. communities
- Develop international **cooperation**

SOT TC: Priorities



- Fully implement the callsign masking scheme
 - Database update
 - Web interface to browse metadata
 - Security issues (web access, individual passwords)
- Pub47 metadata =>JCOMMOPS DB
- Adapt the QC relay tool
- Continue the specification of new JCOMMOPS/SOT web services

SOT TC: Priorities, any other ?

