

**WORLD METEOROLOGICAL ORGANIZATION**

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**INTERGOVERNMENTAL OCEANOGRAPHIC  
COMMISSION (OF UNESCO)**

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JOINT WMO / IOC TECHNICAL COMMISSION FOR  
OCEANOGRAPHY AND MARINE METEOROLOGY  
(JCOMM)

SOT-V/Doc. I-6  
(19.04.2009)

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SHIP OBSERVATIONS TEAM

ITEM I-6

FIFTH SESSION

GENEVA, SWITZERLAND, 18-22 MAY 2009

Original: ENGLISH

**PROGRAMME PROMOTION AND INFORMATION EXCHANGE**

*(Submitted by the Secretariat)*

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**Summary and purpose of the document**

This document provides information on programme promotion and information exchange, including (i) the SOT Annual Reports, (ii) SOT, VOS, VOSClim, SOOPIP, ASAP, and JCOMMOPS websites, (iii) Focal Point mailing lists, and (iv) publications and brochures.

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**ACTION PROPOSED**

The Team will review the information contained in this report, and comment and make decisions or recommendations as appropriate. The Team is invited to consider future improvements or changes to the websites of interest to the SOT.

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- Appendices:** A. JCOMMOPS web products  
B. JCOMM VOS Website  
C. Screen shots from the VOSClim web site

- References:** A. JCOMMOPS web site: <http://www.jcommops.org>  
B. SOT web site: <http://sot.jcommops.org>  
C. VOS web site: <http://www.bom.gov.au/jcomm/vos/>  
D. VOSClim web site: <http://lwf.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html>  
E. SOOPIP web site: <http://www.jcommops.org/sooip/>  
F. ASAP web pages: <http://www.jcommops.org/sot/asap/>

**- A - DRAFT TEXT FOR INCLUSION IN THE FINAL REPORT****I-6.1 SOT Annual report**

I-6.1.1 The Team noted that the SOT Annual report for 2007 was compiled by the WMO Secretariat and published on CD-Rom as JCOMM Technical Report No. 41 (WMO/TD-No. 1431). The CD-ROM also includes the DBCP Technical Document No. 33 (DBCP Annual report for 2007) as well as the DBCP Technical Document No. 32 (Presentations at the DBCP Scientific and Technical Workshop, Jeju, Republic of Korea, 15-16 October 2007). The SOT Annual report for 2007 is also available via the web<sup>1</sup>.

I-6.1.2 The annual report contains the list of national reports that have been submitted to the Secretariat, as well as RSMC and VOSclim RTMC monitoring reports, the reports by the Task Teams, the status of Global VOS Automation as at December 2008, and URLs of web pages of interest (e.g. contact points listed on the JCOMM web site). The annual report for 2008 is about to be compiled on CD-ROM (JCOMM Technical Report No. 46, WMO/TD-No. 1459) using the same structure as the previous issue.

**I-6.2.1 JCOMMOPS web sites and information exchange, including SOT web site**

I-6.2.1.1 Mr. Mathieu Belbéoch reported on the status of the websites maintained at JCOMMOPS including the following:

<i>Web site</i>	<i>URL</i>
JCOMMOPS	<a href="http://www.jcommops.org/">http://www.jcommops.org/</a>
SOT	<a href="http://sot.jcommops.org">http://sot.jcommops.org</a>
SOOPIP	<a href="http://www.jcommops.org/sooip/">http://www.jcommops.org/sooip/</a>
VOS	<a href="http://www.bom.gov.au/jcomm/vos/">http://www.bom.gov.au/jcomm/vos/</a>
ASAP	<a href="http://www.jcommops.org/sot/asap/">http://www.jcommops.org/sot/asap/</a>

I-6.2.1.2 He presented the web Mapping applications supported by JCOMMOPS as well as recent developments for the SOT, SOOPIP, and ASAP Websites.

I-6.2.1.3 The Team noted that JCOMMOPS Website was further developed with news Items added and meeting records included. JCOMMOPS and SOT web pages were updated to include links to the SOT Flyer, VOS Brochure and Certificate of Appreciation and the SOT Recruitment presentation on the SOT web. Extra information about ASAP was added to the VOS section. A link to the 'Callsign Masking instructions' was added on the SOT website. JCOMMOPS did also set up a secure FTP site for the Ship Callsigns Masked by Europe and Australia. JCOMMOPS began writing a specification for a new JCOMMOPS website, which will include new SOT and SOOPIP sites with better usability and consistency.

I-6.2.1.4 The Team noted that in order to better understand the audience of the JCOMMOPS websites, Google Analytics tracking tool was implemented for the JCOMMOPS, DBCP and SOOP websites.

I-6.2.1.5 JCOMMOPS also updated the draft ASAP website to include links to the ASAP brochure, ASAP monitoring, and a new document for Guidance on ASAP recruitment (based on input provided by UKMO, Sarah North).

1: <http://ftp.wmo.int/Documents/PublicWeb/amp/mmop/documents/JCOMM-TR/J-TR-41-SOT-ANN-2007/index.html>

I-6.2.1.6 The meeting noted that JCOMMOPS worked with IRD/IFREMER to discontinue to old URL of the SOOPIP website, which was no longer needed. Minor changes were made to the SOOP web pages for a more consistent look and feel. Documentation on the SOOPIP website relating to Best Practices was updated. Three new links were added on the front page to direct users to the relevant materials, being prepared within NODC relating to XBT intercomparison, XBT quality monitoring and XBT fall rate Equation issues. The Best Practices and Publications page was updated; and information added to the SOT and SOOP websites about Quality Monitoring procedures.

I-6.2.1.7 The SOOP Annual Line Sampling Report interactive map was updated for the 2007 SOOP report and to include all of the Sampling Success assessments from 2005 onwards. The web application for the SOOP sampling indicators used in the SOOP Annual Sampling Report 2007 was modified so that each line could consist of just a link to the web, which would generate the sampling information on-the-fly, This improves the efficiency of generating and using the report significantly. This involved developing the capability on the SOOP Sampling Webpage (known as a Direct Action) to request the results for any SOOP line from the annual report dynamically. This functionality can be used to simplify the annual report for 2007 onwards.

I-6.2.1.8 Mr Belbéoch reported that JCOMMOPS had provided text files for all previous years of SOOPIP metadata from the JCOMMOPS database (based on the Metadata reported annually in March by SOOP operators) - it is up until 31/12/2007. This is to be provided every year (**action, JCOMMOPS, ongoing**).

I-6.2.1.9 The interface of the QC Relay tool was updated in response to requests from several users.

## **I-6.2.2 VOS website**

I-6.2.2.1 Mr. G. Ball, webmaster of the JCOMM VOS website<sup>2</sup>, reported on the status of the website.

I-6.2.2.2 The report included a brief background about the development of the website, an outline of the website's structure, a chronology of changes to the website since SOT-IV and possible future improvements or changes to the website.

I-6.2.2.3 The JCOMM VOS website is a valuable resource for VOS Programme Managers and PMOs, and a source of general information about the VOS Scheme to interested visitors, ship owners and shipping companies.

I-6.2.2.4 Mr Ball reported that as well as adding a range of new metadata collection and reporting tools, adding new documents and instructions, and updating many existing documents, the other major change during the inter-sessional period was a complete re-design and re-structuring of the website. The website also now features the new VOS logo.

I-6.2.2.5 The contents of the website is now organised into five sections:

1. VOS Scheme
2. Port Meteorological Officers
3. Supplementary Programmes
4. Resources
5. Information & Links

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2: <http://www.bom.gov.au/jcomm/vos/>

### **I-6.2.3 VOSClim website**

I-6.2.3.1 Eric Freeman reported on the present status of the VOSClim web page, which is maintained by the National Climatic Data Center (acting as the DAC for the VOS Climate Project). The VOSClim web page retains its user-friendly format and continues to receive positive feedback from researchers and others interested in the VOSClim project. Only minor updates to links and additions of new data files and stats have taken place since SOT-IV. The overall layout of the web page remains the same.

I-6.2.3.2 The home page for the VOSClim project<sup>3</sup> (see screenshots at Appendix C.1) and links from this location are provided to all other pertinent VOSClim information:

- Data access is located on the Project Datasets webpage (Appendix C.2).
- The project ship list containing all participating vessels (active and withdrawn) as well as links to ship photographs and WMO metadata listings (Pub 47) can be accessed on the Ship information web page (Appendix C.3).
- Monthly statistics and suspect ship lists produced by the UK Real Time Monitoring Center are found on the Data Monitoring web page (Appendix C.4).
- Project documents and promotional material can be located on the Project Documents web page (Appendix C.5).
- Finally, links to format documentation, datasets, institutions and other related web pages are located on the Links web page (Appendix C.6).

### **I-6.2.4 Marine Observers Log (Wikilog)**

I-6.2.4.1 The Team recalled that the Marine Observers Log<sup>4</sup>, kindly hosted by Météo France, was created in 2006 for reporting additional phenomena observations received from (i) Ships Meteorological Logbooks, including observations logged using electronic logbooks, and (ii) Individual marine observations and correspondence received from observers or individuals. The log is primarily intended for reports from observers participating in the VOS Scheme and is typically used to report phenomena such as e.g.

- Thunderstorms, hurricanes, typhoons, depressions and squalls
- Waterspouts and funnel clouds
- Electrical phenomena and thunderstorms
- Currents, tide rips, whirlpools, disturbed water and freak waves
- Whales, dolphins and other mammals such as seals
- Birds, bats, insects etc observed on board
- Fish, sea snakes, turtles and other marine life
- Bioluminescence, milky seas, phosphorescent wheels
- Optical phenomena such as haloes, rainbows, fogbows, coronae, refraction etc.
- Crepuscular rays, 'flash' phenomena and noctiluscent clouds
- Comets, meteors, meteorite showers, eclipses etc.
- Sunspots, aurora, satellites and 'UFO's'

I-6.2.4.2 The Team noted that no major changes had been made to the structure of the web site since it was established. Phenomena have been recorded on the web site by the United Kingdom, the Netherlands, and on one occasion by Australia. Météo-France is not responsible for the web site content and phenomena are entered on a voluntary basis.

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

4: <http://esurfmar.meteo.fr/wikilog/>

I-6.2.4.3 Persons submitting material for inclusion on the log, or seeking to reproduce material, reports, sketches, photos or other illustrations appearing on this Wiki site should observe the copyright provisions given in the website.

I-6.2.4.4 The Team invited its members and Port Meteorological Officers to encourage marine observers to provide reports suitable for adding to the Marine Observers Log (**action; SOT members & PMOs; ongoing**).

### I-6.3 Focal point mailing lists

I-6.3.1 The Team noted that the SOT, VOS, VOSclim, PMO, and SOOPIP contact lists were being maintained by the Secretariat on the JCOMM web site<sup>5</sup>. JCOMMOPS also maintains the corresponding electronic mailing lists as below. All members of the SOOP and VOS lists now appear in the SOT general mailing list. All lists were crosschecked against groups and contact lists on the website JCOMM web site to ensure that they are consistent.

<i>List</i>	<i>Email address</i>
General SOT contact points	sot@jcommops.org
VOS focal points	vos@jcommops.org
VOSclim focal points	vosclim@jcommops.org
SOOPIP focal points	soopip@jcommops.org
Useful PMO contact points	pmo@jcommops.org
New list added in 2008 for the SOT Task Team on ship callsign masking	sot-tt-masking@jcommops.org

I-6.3.2 The content from those mailing lists is reproduced in Appendix A, section 7.

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Appendices: 3

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5: <http://www.jcomm.info>

**APPENDIX A****JCOMMOPS WEB PRODUCTS***(submitted by Mathieu Belbéoch and Hester Viola, JCOMMOPS)***1. Websites maintained at JCOMMOPS**

The following websites and web applications exist for SOT and its component programmes:

JCOMMOPS	<a href="http://www.jcommops.org/">http://www.jcommops.org/</a>
SOT	<a href="http://sot.jcommops.org">http://sot.jcommops.org</a>
SOOPIP	<a href="http://www.jcommops.org/soopip/">http://www.jcommops.org/soopip/</a>
SOOPIP Line Sampling Indicators Application	<a href="http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators">http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators</a>
VOS	<a href="http://www.bom.gov.au/jcomm/vos/">http://www.bom.gov.au/jcomm/vos/</a>
ASAP	<a href="http://www.jcommops.org/sot/asap/">http://www.jcommops.org/sot/asap/</a>
Quality Information Relay	<a href="http://wo.jcommops.org/cgi-bin/WebObjects/QCRelay">http://wo.jcommops.org/cgi-bin/WebObjects/QCRelay</a>

**2. Web Mapping applications supported by JCOMMOPS**

SOT Monthly	<a href="http://w4.jcommops.org/WebSite/SOTM/">http://w4.jcommops.org/WebSite/SOTM/</a>
SOOPIP Monthly	<a href="http://w4.jcommops.org/WebSite/SOOPM/">http://w4.jcommops.org/WebSite/SOOPM/</a>
SOOPIP Annual (i.e. SOOP Line Sampling Report)	<a href="http://w4.jcommops.org/WebSite/SOOP/">http://w4.jcommops.org/WebSite/SOOP/</a>
JCOMM Monitoring Map	<a href="http://w4.jcommops.org/WebSite/JCOMM">http://w4.jcommops.org/WebSite/JCOMM</a>

### **3. SOT Website developments**

<http://sot.jcommops.org>

Monthly Map: <http://w4.jcommops.org/WebSite/SOTM/>

- Minor changes were made to the layout and wording.
- Updated the JCOMMOPS and SOT web pages to include links to the SOT Flyer, VOS Brochure and Certificate of Appreciation and the SOT Recruitment presentation on the SOT web.
- Extra information about ASAP added to the VOS section.
- Reviewed the 'Callsign Masking instructions' provided by the chair and put a link to them on the SOT website. Worked with M Belbeoch on ShipCallsign masking procedures. Set up a secure FTP site for the Ship Callsigns Masked by Europe and Australia. More details will be given at the meeting on access restrictions and new web interfaces to the information
- Implemented Website tracking on JCOMMOPS, DBCP and SOOP websites using Google Analytics in order to better understand the audience of the JCOMMOPS websites.

**JCOMM Ship Observations Team (SOT) - Mozilla Firefox**

File Edit View History Bookmarks Tools Help

http://sot.jcommops.org/

JCOMM WMO • IOC

Integrating and modernizing global ocean data and services

Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology

VOS SOOPIP ASAP Resources Terms of Reference

## Ship Observations Team (SOT)

The work of the SOT consists of several very successful and enduring data collection programmes (over 100 years), involving voluntary observing ships and ships of opportunity operated through the VOS and SOOPIP.

The individual programmes presently support research, climate forecasting, numerical weather prediction and maritime safety services amongst other applications. The requirements for ocean state estimation applications are rapidly growing. Variables measured basically include surface meteorological observations, plus sub-sets for upper air meteorological and upper ocean physical data. The sampling rationale for these variables has been set via the various scientific advisory groups and Climate related panels

**SOT Programmes:**

**VOS**  
Voluntary Observing Ship Scheme

The Voluntary Observing Ship Scheme

(Image courtesy of Maersk Sealand <http://www.maersksealand.com/>)

Recording Surface meteorological observations from ~5000 Ships.

- VOS: <http://www.bom.gov.au/jcomm/vos/>
- VOS [Terms of Reference »](#)
- [Duplicate recruiting »](#)

**SOOPIP**  
Ship-of-Opportunity Programme

The Ship Of Opportunity Programme Implementation Panel

Recording Upper Ocean Thermal oceanographic data (from XBT, XCTD, TSG profiles as well as salinity profiles) from about 100 ships worldwide.

- <http://www.jcommops.org/sooip/>
- SOOPIP [Terms of Reference »](#)


Figure 1 – SOT Website front page



**VOS Sub-programmes**

- [VOS Clim](#): The VOS Clim is a project of the VOS for high quality surface meteorological observations, including metadata for use in Climate study (~200 Ships)
- [The Automated Shipboard Aerological Programme](#)

Atmospheric profiles using radiosondes from ~20 ships.



- [Draft ASAP web »](#)
- [EUCOS »](#)
- [ASAP brochure \(PDF »\)](#), 831 KO)
- [E-ASAP »](#)
- [ASAP monitoring »](#)
- [Guidance on ASAP recruitment »](#)
- [ASAP Terms of Reference »](#)

**SOT resources:**

- [SOT recruit powerpoint presentation »](#) (ZIP file)
- [SOT Callsign masking Instructions »](#) (PDF)
- [SOT-IV Final report »](#) (PDF)
- [SOT-IV meeting Documents »](#)

Figure 2 – SOT Website front page (continued)

- Updated the Draft ASAP website <http://www.icommops.org/sot/asap/> to include links to :
  - ASAP brochure ([PDF »](#), 831 KO)
  - ASAP monitoring <http://www.icommops.org/sot/asap-monitoring.html>
  - A new document for [Guidance on ASAP recruitment](#) (based on input provided by UKMO, Sarah North) <http://www.icommops.org/sot/asap/ASAPsetup.html>

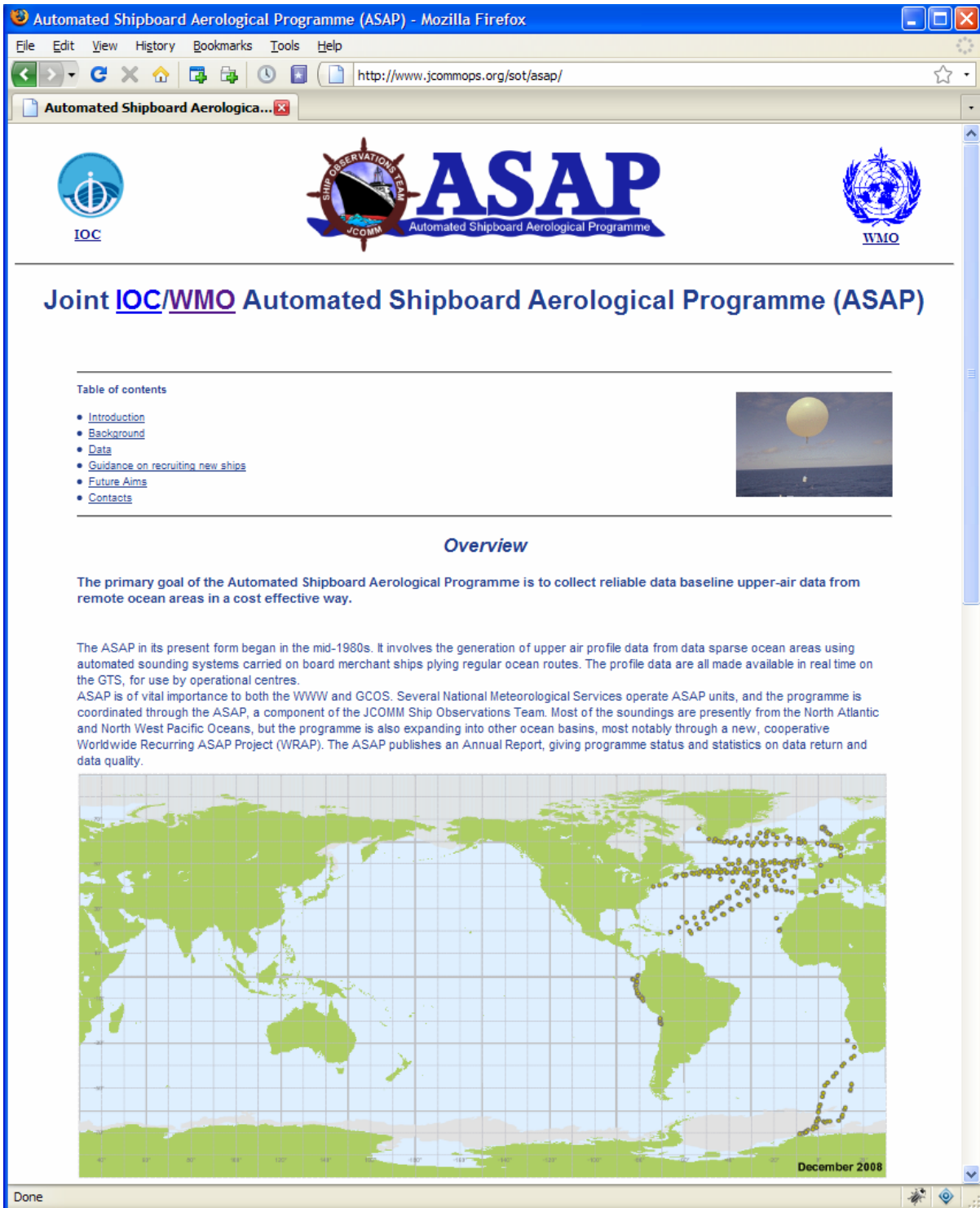


Figure 3 – Section of the ASAP web site

#### 4. SOOPIP Website developments

<http://www.jcommops.org/sooip>

Monthly Map: <http://w4.jcommops.org/WebSite/SOOPM/>

- Worked with IRD/IFREMER to discontinue to old URL <http://www.brest.ird.fr/SOOPIP/> that was no longer needed. Old website archived and URL set up to redirect to JCOMMOPS.
- Updated documentation on the SOOPIP website relating to Best Practices.
  - Added 3 new links on the front page to direct users to the relevant materials, being prepared within NODC relating to XBT intercomparison, XBT quality monitoring and XBT fall rate Equation issues.
  - Updated the Best Practices and Publications page : <http://www.jcommops.org/sooip/publications.html>
- Added information to the SOT and SOOP websites about Quality Monitoring procedures. Several links added to JCOMMOPS website. SOOPIP: Information updated on <http://www.jcommops.org/sooip/publications.html> for CSIRO and AOML.



Figure 4 – SOOPIP front page

- Made minor changes to SOOP web pages for a more consistent look and feel. Updated contact details and logos, also entered updates to XBT Manufacturers list web pages.

#### 5. SOOP Annual Line Sampling Report developments:

- SOOP Annual Line Sampling Report interactive map (<http://w4.jcommops.org/WebSite/SOOP/>) was updated for the 2007 SOOP report and to include all of the Sampling Success assessments from 2005 onwards.

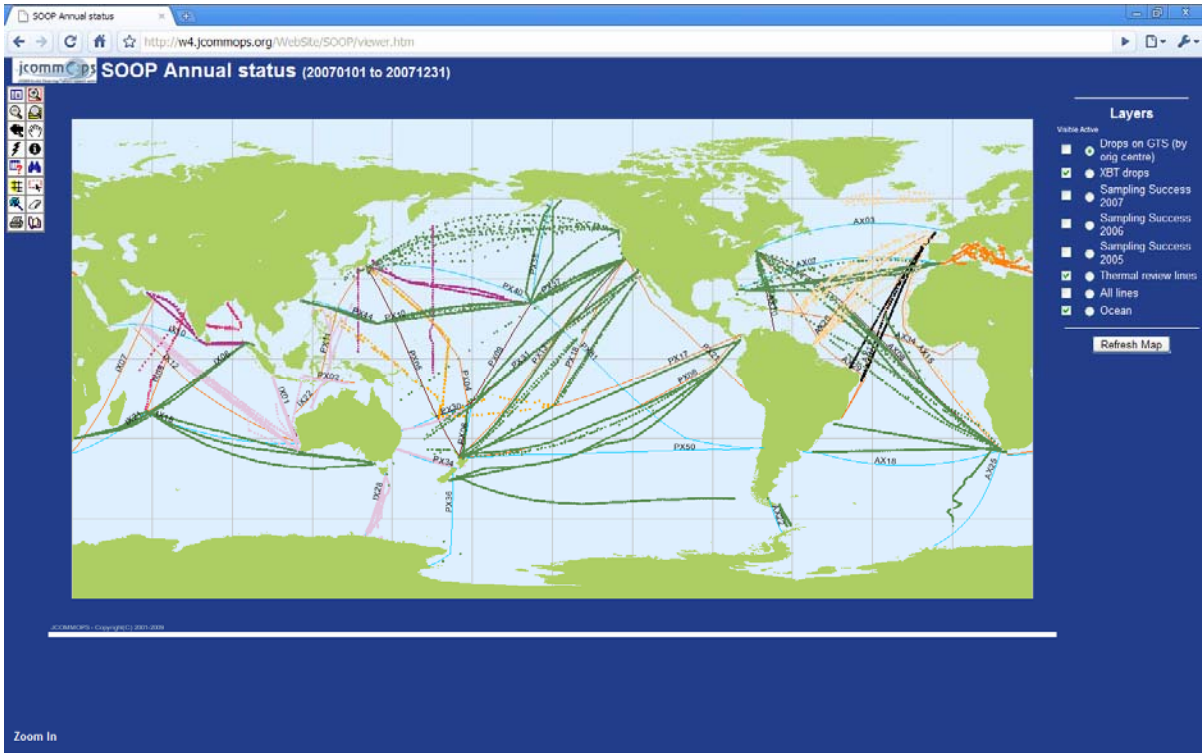


Figure 5 – SOOP Annual Status Interactive Map showing Drops on the GTS, Drops reported by SOOP operators, SOOP Lines and Sampling Success by year.

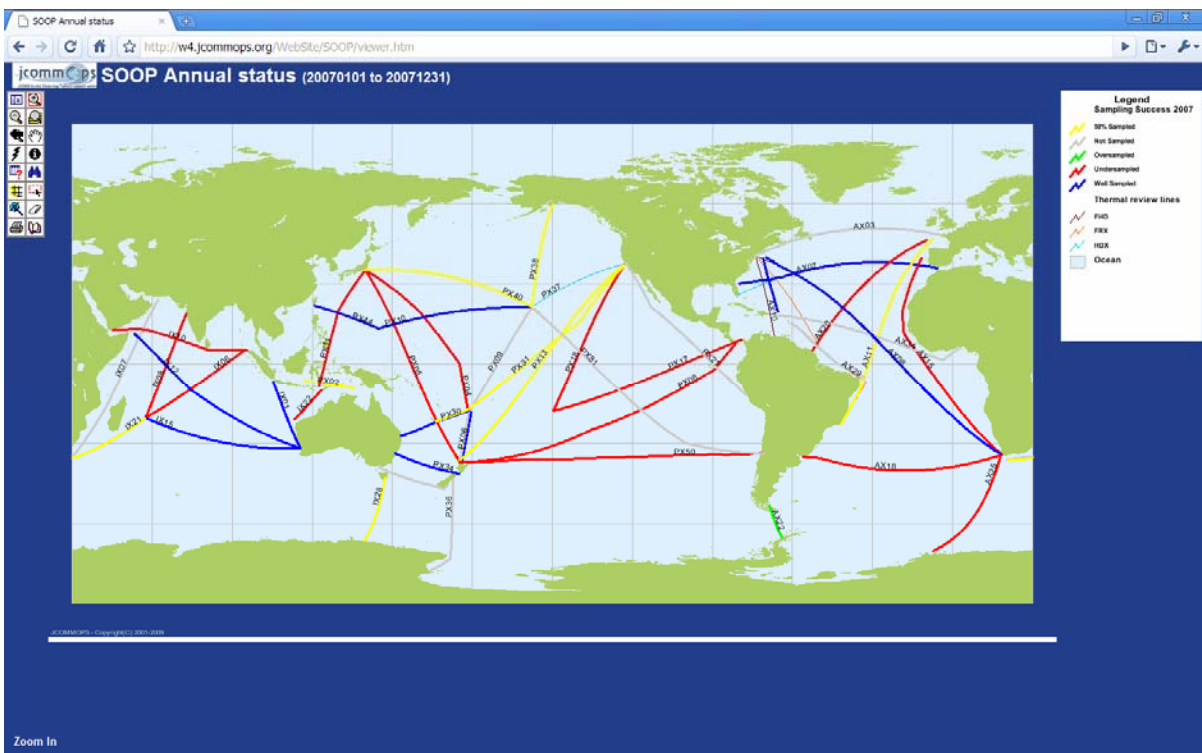
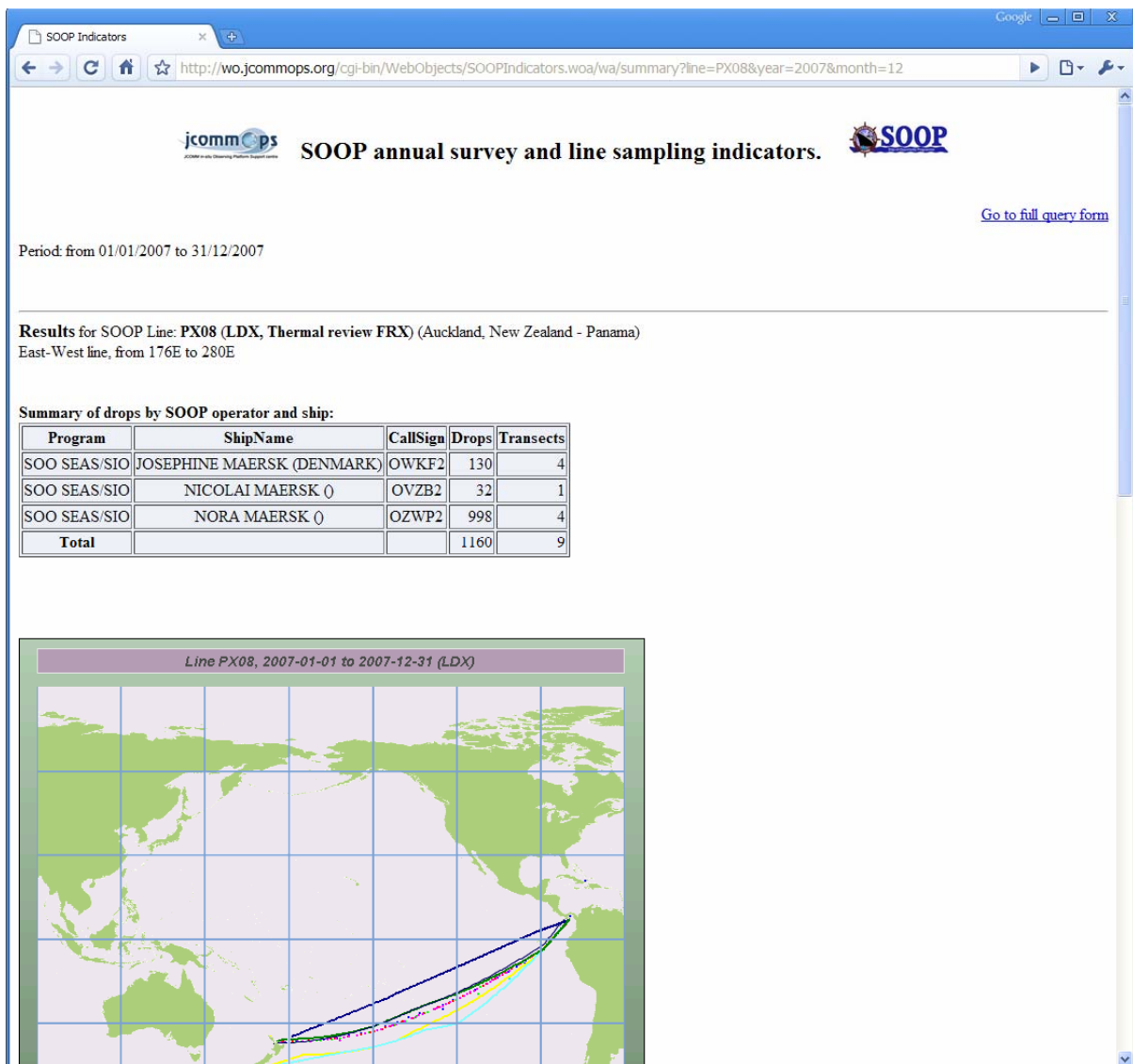


Figure 6 – SOOP Annual Status Interactive Map showing Sampling success layer for 2007

- Streamlining production of the SOOP Annual report:  
Modified the web application for the SOOP sampling indicators (<http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators>) used in the SOOP Annual Sampling Report 2007, so that each line would consist of just a link to the web, which would generate the sampling information on the fly. This improves the efficiency of generating and using the report significantly. This involved developing the capability on the SOOP Sampling Webpage (known as a Direct Action) to request the results for any SOOP line from the annual report dynamically e.g. <http://wo.jcommops.org/cgi-bin/WebObjects/SOOPIndicators.woa/wa/summary?line=PX08&year=2007&month=12>  
This functionality can be used to simplify the annual report for 2007 onwards.

Figure 7 – example output for [individual line](#) request.

- SOOP Annual Metadata outputs: Provided text files for all previous years of SOOPIP metadata from the JCOMMOPS database (based on the Metadata reported annually in March by SOOP operators) it is up until 31/12/2007. This is to be provided every year, including the following:  
LineNumber;CallSign;ShipName;Program;Date;Hour;Lat;Lon;Depth;Quality;TranNum;Dr



opNumber e.g.

[http://www.jcommops.org/FTPRoot/SOT/SOOP/survey/2007\\_metadata\\_soop.txt](http://www.jcommops.org/FTPRoot/SOT/SOOP/survey/2007_metadata_soop.txt)

## 6. JCOMMOPS Website developments

<http://www.jcommops.org>

Monthly Map: <http://w4.jcommops.org/WebSite/JCOMM/>

- Only minor updates completed.
- News Items added and meeting records included
- Commencement of a specification for a new JCOMMOPS website, which will include new SOT and SOOIP sites with better usability and consistency.
- JCOMMOPS maps: Added new functionality with layers in PDF files
  - Within the PDF files there are Layers, which can be toggled on and off, for example to view VOS ship positions only.
  - Developed a number of instructions on how to use this Layer function in Adobe Acrobat which are available at:  
<http://www.jcommops.org/FTPRoot/SOT/SOOP/Maps/2009/>



Figure 8 – JCOMMOPS website

- Updated the interface of the QC Relay tool in response to requests from several users. <http://wo.jcommops.org/cgi-bin/WebObjects/QCRelay>. The changes included:
  - a) slightly different layout - shifted some elements into separate sections ,
  - b) reduction in the number of buttons – now only two buttons on the form: a) 'View History for selected WMO/Callsign' (which is the default button if you press Enter on your keyboard) and b) Send Report' at the bottom of the form.
  - c) The LOGOUT option now appears both at the top right and at bottom right of the form.
  - d) A new option has been added, which will allow users to send a Carbon Copy (Cc:) of the report to one or more additional email addresses (if multiple email addresses are entered a comma should be used to delimit each one).

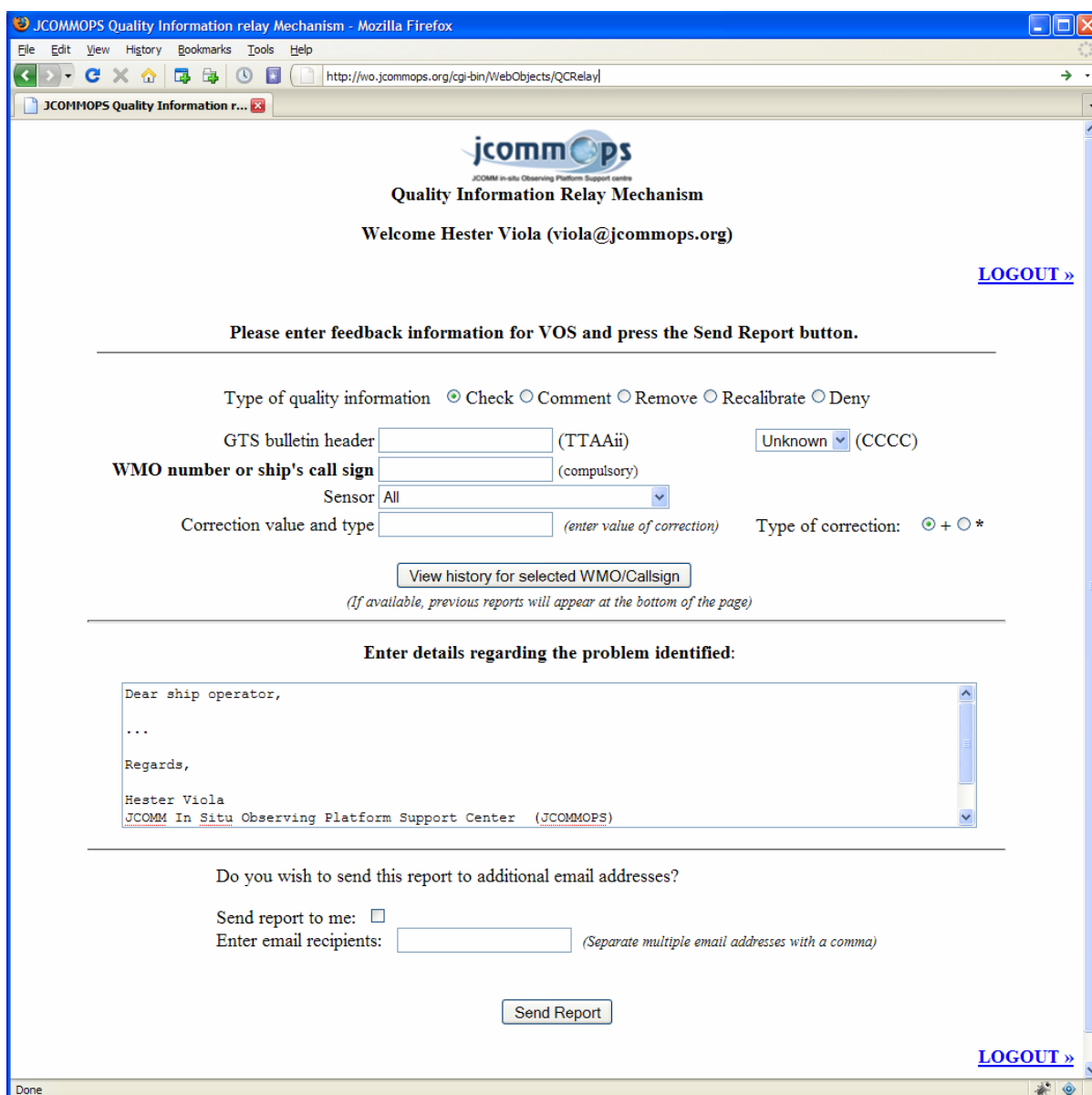


Figure 9 – Quality Information Relay website for VOS

## 7. Mailing lists maintained by JCOMMOPS

The following mailing lists have been maintained by JCOMMOPS

[sot@jcommops.org](mailto:sot@jcommops.org)

[vos@jcommops.org](mailto:vos@jcommops.org)

[vosclim@jcommops.org](mailto:vosclim@jcommops.org)

[soopip@jcommops.org](mailto:soopip@jcommops.org)

[pmo@jcommops.org](mailto:pmo@jcommops.org)

[sot-tt-masking@jcommops.org](mailto: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.

All lists were crosschecked against groups and contact lists on the website [www.jcomm.info](http://www.jcomm.info) to ensure that they are consistent.

Mailing list members are listed below (as at 15<sup>th</sup> March 2009)

[sot@jcommops.org](mailto:sot@jcommops.org)

JCOMM Ship Observations Team (SOT)

Total subscribers: 189

[a.fischer@unesco.org](mailto:a.fischer@unesco.org)

[a.garcia@ecmwf.int](mailto:a.garcia@ecmwf.int) - Antonio Garcia

[alan.hall@noaa.gov](mailto:alan.hall@noaa.gov) - Mr Alan Hall, National Climatic Data Center

[alex.papij@csiro.au](mailto:alex.papij@csiro.au) - Mr Alex Papij

[aluj@kjc.gov.my](mailto:aluj@kjc.gov.my) - Mr Alui bin Bahari

[amlaki@hotmail.com](mailto:amlaki@hotmail.com)

[andre.peries@meteo.fr](mailto:andre.peries@meteo.fr)

[andrioli@meteofa.mil.ar](mailto:andrioli@meteofa.mil.ar) - Ms Miriam Andrioli

[andy\\_fuller@imso.org](mailto:andy_fuller@imso.org) - Mr Andrew C. Fuller

[angel@inm.es](mailto:angel@inm.es)

[anne-marie.wilburn@noaa.gov](mailto:anne-marie.wilburn@noaa.gov) - Anne-Marie Wilburn, NOAA

[ann.thresher@csiro.au](mailto:ann.thresher@csiro.au) - Ann Thresher, CSIRO

[anthony.hilton@ec.gc.ca](mailto:anthony.hilton@ec.gc.ca)

[a\\_postnov@mail.ru](mailto:a_postnov@mail.ru) - Dr Alexander A. Postnov

[ari.meskanen@vaisala.com](mailto:ari.meskanen@vaisala.com) - Mr Ari Meskanen

[aslaug.nes@met.no](mailto:aslaug.nes@met.no)

[barandallahe@inta.es](mailto:barandallahe@inta.es)

[belbeoch@jcommops.org](mailto:belbeoch@jcommops.org) - Mathieu Belbeoch

[birgit.klein@bsh.de](mailto:birgit.klein@bsh.de) - Dr Birgit Klein

[b.lee@unesco.org](mailto:b.lee@unesco.org) - Boram Lee, IOC



[brian.doyle@met.ie](mailto:brian.doyle@met.ie)  
[bruce.lohnes@ec.gc.ca](mailto:bruce.lohnes@ec.gc.ca) - Bruce Lohnes  
[burns@eumetsat.de](mailto:burns@eumetsat.de) - Mr Sean Burns  
[bwoodward@clsamerica.com](mailto:bwoodward@clsamerica.com) - Bill Woodward  
[cdalgun@meteor.gov.tr](mailto:cdalgun@meteor.gov.tr) - Cem Dalgun, Turkish State Meteorological Service (TSMS)  
[champika.gallage@ec.gc.ca](mailto:champika.gallage@ec.gc.ca)  
[charles.sun@noaa.gov](mailto:charles.sun@noaa.gov) - Charles Sun  
[chqian@cma.gov.cn](mailto:chqian@cma.gov.cn) - Mr Chuanhai Qian  
[christophe.bataille@meteo.fr](mailto:christophe.bataille@meteo.fr) - Meteo France  
[cim@meteofa.mil.ar](mailto:cim@meteofa.mil.ar) - Licenciada Ana Teresa Gomez  
[claire.smith@metoffice.gov.uk](mailto:claire.smith@metoffice.gov.uk) - Dr Claire Smith  
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<a href="mailto:g.ball@bom.gov.au">g.ball@bom.gov.au</a>	Graeme Ball
<a href="mailto:pierre.blouch@meteo.fr">pierre.blouch@meteo.fr</a>	Pierre Blouch, SHOM
<a href="mailto:robert.luke@noaa.gov">robert.luke@noaa.gov</a>	Robert Luke
<a href="mailto:rudolf.krockauer@dwd.de">rudolf.krockauer@dwd.de</a>	Mr. rudolf Krockauer, DWD
<a href="mailto:sarah.north@metoffice.gov.uk">sarah.north@metoffice.gov.uk</a>	Sarah North - UKMO
<a href="mailto:scott.d.woodruff@noaa.gov">scott.d.woodruff@noaa.gov</a>	Mr Scott D Woodruff, NOAA/OAR/CDC
<a href="mailto:viola@jcommops.org">viola@jcommops.org</a>	Hester Viola

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## APPENDIX B

### JCOMM VOS WEBSITE

#### 1. Background

The need for a dedicated JCOMM VOS website was recognised at the first meeting of the JCOMM Observations Coordination Group (OCG-I), La Jolla, 2002. Following OCG-I, the WMO Secretariat approached Graeme Ball and the Australian Bureau of Meteorology develops, maintain and host the JCOMM VOS website. Both parties agreed to the request from the WMO Secretariat.

#### 2. Overview

2.1 The website was originally developed around the VOS Framework Document, the Final Report from SOT-I, plus material from WMO Regional PMO Training Workshops held in Melbourne, 1999, and Cape Town, 2000.

2.2 The homepage of the JCOMM VOS website < <http://www.bom.gov.au/jcomm/vos/> > is shown below.



2.3 The JCOMM VOS website is built with cascading style sheets (CSS 1.0) to define the page structure and formatting, and is fully compliant with W3C coding specifications (HTML 4.01). It conforms to at least Level A of the Web Content Accessibility Guidelines (WCAG 1.0) for visitors with disabilities.

#### 3. Structure

3.1 The JCOMM VOS website is a valuable resource for VOS Programme Managers and PMOs, and is a source of general information about the VOS Scheme for interested visitors, ship owners and shipping companies.

3.2 The website is organised into five sections:

6. VOS Scheme
7. Port Meteorological Officers
8. Supplementary Programmes
9. Resources
10. Information & Links

#### **4. Chronology of changes since SOT-IV**

May 23, 2007

1. Released new-look VOS website with new VOS logo.
2. Added - SAMOS Project overview.  
VOS website » Supplementary Programmes » SAMOS
3. Updated - "WMO No. 47 Metadata Format Version 03".  
VOS website » Resources » WMO No. 47.

July 4, 2007

4. Added - "SOT-4 Final Report".  
VOS website » Information & Links » JCOMM Meeting Reports.

April 11, 2008

5. Added - "Implementing a MASK Callsign Masking Scheme".  
VOS website » Resources » Instructions.

June 10, 2008

6. Updated - "WMO No. 47 Metadata Format Version 03".  
VOS website » Resources » WMO No. 47.
7. Updated - "SOT Recruitment Presentation".  
VOS website » Information & Links » Presentations.
8. Updated - "VOS Framework Document".  
VOS website » Information & Links » WMO Technical Documents.
9. Updated - "Barometers & Barographs".  
VOS website » Resources » National Observing Practices.
10. Added - "VOSP002 Metadata Collection Form & Metadata Viewer".  
VOS website » Resources » Forms & Tools.
11. Added - "WMO No. 47 XML Generator".  
VOS website » Resources » Forms & Tools.
12. Added - "Worldwide Marine Radiofax Broadcast Schedules".

VOS website » Information & Links » Miscellaneous Documents.

13. Added - "Log of VOS Website Changes" page.

14. Reorganised the content of the "Resources" and "Information & Links" pages.

15. Renamed "Latest News" to "Website Updates" and added "Coming Events" to the Home page.

June 26, 2008

16. Added - "on this page" to the "Information & Links" page.

November 6, 2008

17. Added - "VOS observations counter".  
VOS website » Resources » VOS Monitoring.

February 11, 2009

18. Updated - "WMO No. 47 XML Generator".  
VOS website » Resources » Forms & Tools.

## **5. Future Improvements**

5.1 Like all good websites; the content of the VOS website must remain fresh and be regularly updated to encourage repeat visitors.

5.2 Some of the future improvements discussed at SOT-IV have not been implemented due to a lack of time and resources, but remain under consideration if and when resource become available, e.g. clickable map of PMO locations with contact details.

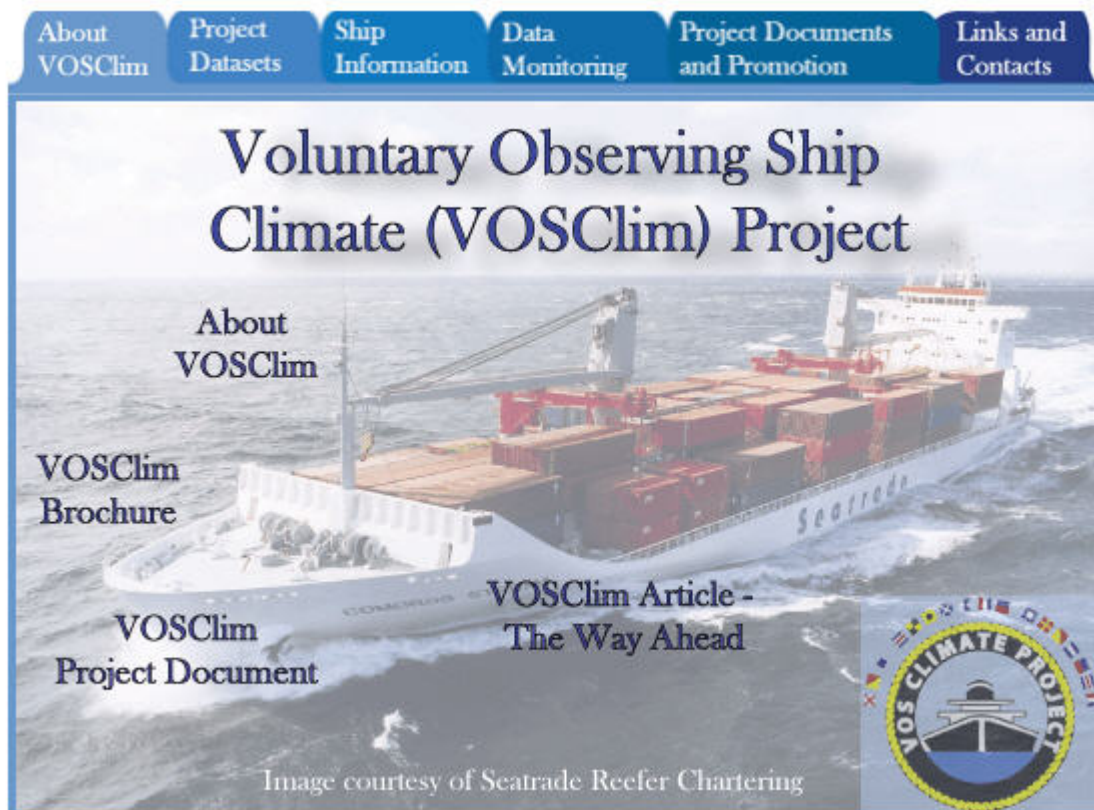
5.3 The call at SOT-IV for any NMS with a VOS and or PMO website, and not already linked from the JCOMM VOS website, to submit their website's URL via the facility provided on the VOS website is repeated.

5.4 It is intended to update the text on the VOS Scheme page to reflect the changes made to the VOS Framework Document.

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APPENDIX C


SCREEN SHOTS FROM VOSCLIM WEB SITE




A.1) VOSCLIM home page:

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

About VOSCLIM Project Datasets Ship Information Data Monitoring Project Documents and Promotion Links and Contacts



# VOSCLIM Data



- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009

Click the links to the left to access monthly text files of VOSCLIM data

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For database access to the same data, as well as data from buoys and other ships, please go to the [marine data portal](#) of NCDC's 'Climate Data Online' store

C.2) VOSCLIM data access:

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

About VOSclim | Project Datasets | **Ship Information** | Data Monitoring | Project Documents and Promotion | Links and Contacts



## Project Documents and Promotional Material



**VOSclim Ship Metadata**

- [WMO metadata listings for all VOS ships \(pub 47\)](#)

**Ship and Instrument Photographs**

- [NCDC ftp-site with photographs of ships by call sign and ship name](#)
- [Dutch web-site with ship photographs](#)
- [NCDC ftp-site with photographs of VOSclim Certificates of Participation presentations](#)

This section is under construction and more pictures will be available soon.

**Project Ship List**


- [Ship list \(MS Excel\)](#)

Please send all Ship List updates and inquiries to [Eric.Freeman@noaa.gov](mailto:Eric.Freeman@noaa.gov).


C.3) Ship Information:  
<http://www.ncdc.noaa.gov/oa/climate/vosclim/shipinfo.html>



About VOSClm	Project Datasets	Ship Information	Data Monitoring	Project Documents and Promotion	Links and Contacts
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## Data Monitoring Statistics



<b>Select Report:</b> <input checked="" type="radio"/> Monthly statistics <input type="radio"/> Ship suspect list*	<b>Select Year</b> 2002 ▾	<b>Select Month</b> January ▾
--	------------------------------	----------------------------------

\*Please note that there are no ship suspect reports for January-April 2002 and reports exist only for limited elements for the remainder of 2002

C.4) Monthly statistics and suspect ships:

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

About  
VOSclim

Project  
Datasets

Ship  
Information

Data  
Monitoring

Project Documents  
and Promotion

Links and  
Contacts



## Project Documents and Promotional Material



### VOSclim Survey/Recruitment Form

Following the introduction of Metadata Format Version 03 in July 2007 it is recommended that Form VOSPO02 should be used for the recruitment and collection of metadata for VOSclim ships. To ensure accurate completion of this form it is further recommended that Port Met Officers take a copy of the latest Metadata Format Version 03 with them when inspecting VOSclim ships.

Copies of Form VOSPO02 and Metadata Format Version 03 are available for download at <http://www.bom.gov.au/jcomm/vos/resources.html>

### VOSclim Certificates

- [Certificate of Participation Instructions \(pdf\)](#)
- [Certificate of Participation \(pdf\)](#)

### VOSclim Certificate Presentation Photographs

- [Photographs](#)

### VOSclim Newsletters

- [October 2003 \(pdf\)](#)

### VOSclim Articles

- [VOSclim article - The Way Ahead](#)
- [VOSclim Brochure](#)

### VOSclim Scientific Papers

- [VOS and VOSclim related articles \(external link\)](#)


C.5) Project documents and information:

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

About VOSClim | Project Datasets | Ship Information | Data Monitoring | Project Documents and Promotion | **Links and Contacts**



## Links and Contacts for VOSClim



**Contacts**

- [List of VOSClim contacts](#) (Word document)

**Links**

- Data Formats
  - [IMMA - VOSClim Archive Format \(PDF\)](#)
  - [IMMT-3 GCC Delayed Mode Data Format \(PDF\)](#)
  - [WMO Pub. 47 - International List of Voluntary Observing Ships](#)
- Datasets
  - [The International Comprehensive Ocean-Atmosphere Data Set \(COADS\)](#)
- Institutions/ Program web-sites
  - [JCOMM Voluntary Observing Ship Site](#)
  - [The Southampton Oceanography Centre VOSClim Page](#)
  - [Dutch VOSClim Page](#)
  - [United States Voluntary Observing Ships Program Page](#)
  - [Australian Oceanographic Data Centre](#)
  - [Meteo France Monitoring Site](#)
  - [Marine Data Monitoring, Met Office, UK](#)
  - [Global Collection Centre \(Germany\)](#)
  - [Global Collection Centre \(UK\)](#)
- General and Operational Links
  - [WMO Home Page](#)
  - [MarinersGuide.com's Marine Weather Links](#)
  - [Global Climate Observing System \(GCOS\)](#)
  - [TurboWin](#)
  - [JCOMMOPS](#)

C.6) Links:  
<http://www.ncdc.noaa.gov/oa/climate/vosclim/links.html>

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