WORLD METEOROLOGICAL ORGANIZATION

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (OF UNESCO)

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

SOT-V/Doc. I-2.4 (02.04.2009)

SHIP OBSERVATIONS TEAM

ITEM I-2.4

FIFTH SESSION

GENEVA, SWITZERLAND, 18-22 MAY 2009

Original: ENGLISH

REVIEW OF ACTION ITEMS FROM THE FOURTH SESSION OF THE SOT

(Submitted by the Secretariat)

Summary and purpose of the document

This document provides for a review of the action items that arose from the fourth Session of the SOT.

ACTION PROPOSED

The Team will review the information contained in this report, and comment and make decisions or recommendations as appropriate. See part A for the details of recommended actions.

Appendices: A. Status of action items from SOT-IV

References: A. Final report¹, fourth Session of the SOT, Geneva, Switzerland, 16-21 April 2007

^{1:} ftp://ftp.wmo.int/Documents/PublicWeb/amp/mmop/documents/JCOMM-MR/JCOMM-MR-52-SOT-IV/J-MR-52-SOT-IV.pdf

- A - DRAFT TEXT FOR INCLUSION IN THE FINAL REPORT

I-2.4.1 The Secretariat reviewed the list of action items from the fourth Session of the SOT, Geneva, Switzerland, 16-21 April 2007 (annotated with completion status in Appendix A). The meeting noted that almost all of the actions had been successfully completed, or addressed. A number of the open or ongoing action items are being addressed during this Session (SOT, VOSP, SOOPIP chairpersons' reports, reports by the Task Teams).

Appendix: 1

APPENDIX A

STATUS OF ACTION ITEMS FROM SOT-IV

Are indicated in yellow those action items that will be reviewed under agenda item I-2.4, and presented by the secretariat;

Are indicated in light blue those action items that will be reviewed under agenda item I-2.5, and presented by the SOT Technical Coordinator; Are indicated in orange those action items that will be reviewed under agenda item I-4.1, and presented by the chairperson of the Task Team on Satellite Communication

Are indicated in blue those action items that will be reviewed under agenda item I-4.3, and presented by the Chairperson of the Task Team on ASAP Are indicated in cyan those action items that will be reviewed under agenda item I-4.4, and presented by the Chairperson of the Task Team on VOS Recruitment and Programme Promotion

Are indicated in green those action items that will be reviewed under agenda item I-4.6, and presented by the Chairperson of the Task Team on Coding

Are indicated in dark yellow those action items that will be reviewed under agenda item I.4.7, and presented by the Chairperson of the Task Team on Instruments

Are indicated in dark blue those action items that will be reviewed under agenda item I-4.9, and presented by the Chairperson of the Task Team on VOSClim

Are indicated in dark green those action items that will be reviewed under agenda item III-1.2, and presented by the Chairperson of the VOS Panel Are indicated in magenta those action items that will be reviewed under agenda item IV-1.2, and presented by the Chairperson of the SOOP Implementation Panel

Reviewed at agenda item, by	No	Item	Action	Ву	Deadline	Status	Comment
I-2.4, General Review, Secretariat	4	III-3	To publish the national reports provided by the Members as well as the PowerPoint presentations made at SOT-IV on CD-Rom within the SOT annual report for 2006	Secretariat (WMO)	End 2007	Done	Done
I-2.4, General Review, Secretariat	7	I-3.2.4.3	FerryBox to cooperate with the GOSUD project for dissemination and archiving of the temperature and salinity underway data collected. To make the data available to GOSUD	GOSUD (Loic Petit de la Villeon) ; FerryBox (Colijn)	SOT-V	Done	Contacts made with FerryBox colleagues at NOCS; agreed on setting up a data transfer from the line Portsmouth-Spain but for the moment no effective data transfer has been done. Contacts made with Norwegian colleagues from NIVA and they also agreed on providing data to GOSUD. Data transfer must be also set up. GOSUD held its meeting in June. Mr Colijn has been informed through mailing list about the meeting.
I-2.4, General Review, Secretariat	8	I-4.1.4	To approach the Maritime Safety Committee with a joint document from JCOMM (WMO-IOC) and the International Chamber of Shipping (ICS).	TT/VRPP; Secretariat	Aug-07	Pending	Pending. There has been no high level WMO-IMO-ICS meeting since Feb 2007. Sarah North supplied a 'Generic Design Standards' document to WMO in Dec 2007
I-2.4, General Review, Secretariat	15	IV- 2.1.1.10	To liaise with Russia during the next intersessional period and to seek its participation at the next SOT meeting	Secretariat (WMO)	SOT-V	Done. Received annual report	Letter sent to Russian Federation together with request for input for SOT annual report for 2008

I-2.4, General Review, Secretariat	16	IV- 2.1.1.11	To help for having the SOT requirements considered by the manufacturing industry	HMEI (Bruce Sumner)	SOT-V	Ongoing	Any requirements received from SOT are immediately passed to all the manufacturers who are members of HMEI. Also passed on are reports of SOT and other JCOMM meeting, and reports and requests from members of SOT. For instances, Robert Luke has contacted HMEI on several occasions with requests for assistance. Also, HMEI is cooperating with the WIGOS Pilot Project for JCOMM and solutions being explored in this context.
I-2.4, General Review, Secretariat	17	IV-2.1.2.6	To clearly document software versions on the web sites where the e-logbook software can be downloaded and to provide on-line as well as off-line (onboard, electronic or paper) training tools	VOSP Members providing e- logbooks	SOT-V	ok USA	USA: done (increasing training materials)
I-2.4, General Review, Secretariat	18	IV-2.1.2.8	To always record the call sign and/or the VOS ID as assigned by the national meteorological service in the electronic logbooks	VOSP Members operating e- logbooks	Ongoing	ok USA	USA: Done
I-2.4, General Review, Secretariat	19	IV- 2.1.2.10	To enhance coordination amongst the Task Teams and cross cutting activities for addressing all the new requirements for IMMT, BUFR, satellite data communications, VOS ID	All relevant TT	SOT-V	ongoing	DMCG created Task Team on Table driven codes including with representation from SOT, ETMC.
I-2.4, General Review, Secretariat	20	IV-2.2.3 and IV- 3.6.6	To use the web based Pub47 database system provided by E-SURFMAR for submitting the Pub. 47 metadata to the WMO	VOSP Members who don't already have their own databases and tools	Ongoing	used by NZ, Aus	Australia and New Zealand are using it. Contrary to European NMHSs, they have asked that non-active vessels do not appear in the database and, of course, they keep full control over the submission of quarterly data to WMO.

I-2.4, General Review, Secretariat	22	IV-2.3.2.5	To liaise with USA regarding organization of the Fourth International PMO Workshop in 2009	Secretariat (WMO); USA	Early 2009	Postponed	Postponed to 2010 due to lack of funding in 2009
I-2.4, General Review, Secretariat	23	IV-2.3.31	To take steps to enhance their PMO activities	VOSP Members from regions where gaps appear in the PMO network	SOT-V	ok USA	USA: concur
I-2.4, General Review, Secretariat	24	IV-2.3.3.3	To engage with the IMO to ensure that the training syllabus for ship officers (e.g. the Standard of Training and Certification for (STCW) convention) ensures adequate training in the modern observational practices	SOT Members	SOT-V	No action	
I-2.4, General Review, Secretariat	25	IV-2.4.1.6	To routinely use the JCOMMOPS QC relay tool for reporting on systematic errors	RSMC, Exeter; Quality monitoring centres	Ongoing	Done	Done. RSMC now routinely (usually weekly) use the JCOMMOPS QC relay tool to report ships with systematic and other errors. Some feedback has been received at the Met Office when errors have been corrected by PMOs on inspection of the ships concerned
I-2.4, General Review, Secretariat	30	IV-2.4.2.6	To continue the developments of the Dirkzwager vessel tracking tools and report on their effectiveness at the next SOT Session	E-SURFMAR.	SOT-V	Unknown	
I-2.4, General Review, Secretariat	31	IV-3.1.5	To keep the lists of VOS National Focal Points as well as the list of PMOs contact Points up to date based on the submissions from the Members for the SOT annual Report or as advised	Secretariat (WMO)	Ongoing	Done	Done

I-2.4, General Review, Secretariat	33	IV-3.2.5	To use a slightly higher limit of 12% for the bias limit criteria for the real time monitoring for relative humidity	VOSClim RTMC	ASAP	Started	This was instigated with the 'suspect' list for May 2007
I-2.4, General Review, Secretariat	35	IV-3.3.8	To avoid masking the delayed mode data using SHIP	VOS Operators	Ongoing	Addressed	USA: US VOS masked ships delayed mode data is being sent to NCDC & ICOADS in their "REAL" form. NCDC should continue to provide archive data as GCC. JMA observations (even if originating into GTS as SHIP from NWSTG - are responsibility of JMA for inclusion into climate archives.
I-2.4, General Review, Secretariat	36	IV-3.4.4	To consider the following recommendations by the meeting regarding the display and availability of VOSClim project data on the website: (i) there is a need for maintaining the list of VOSClim ships up to date, (ii) the notification of the recruitment to the DAC must be the date of notification, (iii) a link to VOS web site should be added on the VOSClim web site, (iv) the DAC should keep track of call sign changes (e.g. beginning/ending dates for call signs)	VOSClim DAC	Ongoing	Done	The project ship list has been consistently maintained and updated as the DAC is notified of new recruits/withdrawals/call sign, name changes/etc. Links have also been added to many VOS sites. I encourage all to check the links page at: http://www.ncdc.noaa.gov/oa/climat e/vosclim/links.html and let me know if you have a website for your national VOS activities that you would like to add to the VOSClim links. It will only take me a few minutes to add.
I-2.4, General Review, Secretariat	37	IV-3.5.6	To produce the TT-DMVOS project plan	TT/DMVOS	Aug-07	Done	Done
I-2.4, General Review, Secretariat	38	IV-3.5.9	Not to mask the delayed mode data	VOS Operators	Ongoing	Addressed	USA: Only possible delayed mode data would be from ships who have requested that their observations are NEVER released publicly. Of course, in this case, that data would not be shared with NCDC or ICOADS anyway so. See also IV-3.3.8 above.

I-2.4, General Review, Secretariat	39	IV-3.5.11	To consider attending the CLIMAR- III workshop, Gdansk/Sopot/Gdynia, Poland, 6-9 May 2008	SOT Members	May-08	Done	Some SOT Members attended the meeting (e.g. Brazil, Canada, Croatia, Germany, Israel, Poland, USA, UK)
I-2.4, General Review, Secretariat	42	IV-3.7.1	To investigate whether the VOSClim photographs could be stored with Pub47 Metadata	Secretariat (WMO)	End 2007	Not done	No resources available at this point for making required developments
I-2.4, General Review, Secretariat	44	IV-3.7.1	To investigate the possibility of including a metadata module in SEAS possibly based on the stand alone TurboWin input module	USA	SOT-V	ongoing	USA: still being discussed with AOML (Derrick) on feasibility & costs)
I-2.4, General Review, Secretariat	46	IV-3.7.1	To consider a way to discriminate between VOSClim and non-VOSClim ships for ships not listed in the VOSClim in case of extending the Principle of all VOSClim data going to one central repository (DAC) to be used for all VOS data.	VOSClim DAC	Mid 2008	partly done	NCDC has considered and is prepared to make changes to processing in the event that an agreement is made to differentiate between VOSClim and non-VOSClim ships reporting VOSClim elements. This is currently taking place for the GCC delayed-mode observations, based on the project ship list
I-2.4, General Review, Secretariat	47	IV-4.1.2.7	To negotiate with some of the web sites making ship positions and identification available on their web sites to delay the availability of the data in certain regions to be defined	VOSClim USA	End 2007	Unknown	
I-2.4, General Review, Secretariat	48	IV-4.1.2.8	To investigate releasing the delayed mode data using REAL after a period to be defined	VOSP Members implementing SHIP	End 2007	Done	USA: Done

I-2.4, General Review, Secretariat	52	IV-4.4.9	To act as a liaison with the manufacturing industry regarding the use of electronic devices meeting SOT requirements	HMEI (Bruce Sumner)	SOT-V	ok but no feedback received	No information on electronic devices, in particular devices to replace mercury temperature measurement instruments, has been received from SOT. However when such information is received, HMEI has a very effective dissemination mechanism to ensure such information is passed to all members in a very timely manner, and that member responses are collected/collated and passed back to SOT very quickly. Also, HMEI is cooperating with the WIGOS Pilot Project for JCOMM and solutions being explored in this context.
I-2.4, General Review, Secretariat	53	IV-4.4.11	To conduct Intercomparison between the old mercury thermometers and proposed new technology and to pass the results to the TT on Instrument Standards for documentation purposes	VOSP Members; TT/Instr	SOT-V	Not done	USA: none received to date
I-2.4, General Review, Secretariat	57	IV-4.5.6	To make efforts to provide via JCOMMOPS and the mailing lists information on errors found by the Members and the monitoring centres	RSMC, Exeter	Ongoing	Done	Done. RSMC now routinely (usually weekly) use the JCOMMOPS QC relay tool to report ships with systematic and other errors. Some feedback has been received at the Met Office when errors have been corrected by PMOs on inspection of the ships concerned

I-2.4, General Review, Secretariat	60	IV-5.1.3	To investigate whether SAMOS could become a participant of the US VOS	R. Luke; SAMOS	SOT-V	Ongoing	Have been coordinating efforts with Shawn Smith for SAMOS reports. Some ships already providing information in real time. Others are awaiting test & evaluation of NOAA SHIP Autolmet ship observations before we expand to assume a more complete real time data process. The SAMOS data is already available for climate studies.
I-2.4, General Review, Secretariat	68	V-2.3.3	PX-81, Honolulu - Coronel (Chile). The Secretariat agreed to contact the Chilean IOC focal point to identify a correspondent in the shipping industry, to also help in the search for an appropriate ship (report back to SOOPIP Chairperson)	Secretariat (IOC);	ASAP	Unknown	
I-2.4, General Review, Secretariat	69	V-2.3.4	To contact the German research vessel the <i>Polar Stern</i> , to see if they would be willing to perform complementary high-resolution XBT sampling in the Southern Ocean on their CTD sections between Antarctica and Cape Town (report back to SOOPIP Chairperson)	Birgit Klein;	ASAP	Done	Birgit Klein - 14/1/2009: She talked to Eberhard Fahrbach and he saw no problem in finding people to carry out the work but had no resources in the AWI to supply the XBTs.
I-2.4, General Review, Secretariat	70	V-2.3.4	Feedback on the actions decided regarding Polar Stern making high-resolution XBT sampling would be brought to the CLIVAR basin panels by the OOPC Secretariat	Albert Fischer	End 2007	Unknown	
I-2.4, General Review, Secretariat	71	V-2.4.1.3	To approach institutions for appropriate representatives, for appropriate members of the group in the intersession to perform their two tasks	Secretariat (IOC)	SOT-V	Unknown	

I-2.4, General Review, Secretariat	77	V-2.6.5	To host documentation once the real-time QC standards are defined for XBT profiles	JCOMMOPS	End 2007	Done	Done. (i) Added 3 new links on the front page to direct users to the relevant materials, being prepared within NODC; and (ii) Updated the Best Practices and Publications page. http://www.jcommops.org/soopip/publications.html
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I-2.4, General Review, V-5.2.3 To coordinate procedures for near-IOCCP: AOML End 2007 Ongoing Secretariat real-time insertion of salinity data on GTS

M Hood. 14/1/2009: IOCCP is a coordination project and does not have any authority over how or whether PIs contribute their data. Depending on Rik Wanninkhof's response (AOML), this may be an issue to bring up with the group writing a VOS carbon white paper for OceanObs09. Rik Wanninkhof (AOML) 14/1/2009: We are excited about the possibility of providing an extra product from our pCO2 measurement campaigns on SOOPs. Off hand I have the following comments: (i) placing SST, and SSS on GTS - Since NOAA OCO is sponsoring the largest SOOP-pCO2 effort, and since Gustavo and I are in the same lab, I suggest that we work out a strategy, and possibly a pilot study that could eventually be expanded to cover all (willing) SOOP-CO2 participants. The logistic details are not trivial; and (ii) Speedy Delayed mode provision of SSS and SST - For the NOAA sponsored program we should be able to work something out to provide data right after we receive the data at the end of cruise (although will we have accommodate the extra [personnel) costs involved). I expect that internationally we could make a plea through IOCCP but would have to rely on the good graces of the PI's.

I-2.4, General Review, Secretariat	86	V-5.2.4	To work with the FerryBox project to allow for near real-time insertion of data onto the GTS	AOML; Franciscus Colijn	ASAP	Unknown	
I-2.4, General Review, Secretariat	87	V-6.2.1	To seek the representation of Brazil (contact Dr Maricio Mata, FURG) and South Africa (contact Dr Isabelle Ansorge, UCT) at future meetings of the panel	Secretariat (IOC)	SOT-V	Unknown	
I-2.4, General Review, Secretariat	89	VI-1.1.14	To provide guidance and suggest specific areas that should be targeted in order to improve the quality of the global NWP model forecasts	ECMWF (Antonio Garcia- Mendez)	End 2007	Done	Fourth WMO Workshop on the Impact of Various Observing Systems on NWP, Geneva, Switzerland, 19-21 May 2008 addressed Radiosondes impact. Global wind profiles remain the more important information to observe, at least relatively to the current GOS where the temperature profiles can be indirectly observed by satellite sounders or GPS radio-occultation. Radiosondes in general contribute to the large-scale forecast skill at short and medium-range at a level of 6 hours to 12 hours in the NH and tropical regions, and a few hours to 6 hours in the SH. Radiosondes are relatively more important for regional models than for global models; isolated profiles of wind and temperature (from Radiosondes, AMDAR) are crucial for NWP
I-2.4, General Review, Secretariat	90	VI-3.1.1.3	To investigate availability of materials showing the need for Radiosondes data in the Southern Hemisphere and in the North Pacific for satellite calibration	ECMWF (Antonio Garcia- Mendez)	End 2007	More info needed	,

I-2.4, General Review, Secretariat	91	VI-3.1.1.4	To notify E-ASAP position errors to Rudolf Krockauer for investigation and tentative correction of the problems	ECMWF (Antonio Garcia- Mendez)	Ongoing	Done	
I-2.4, General Review, Secretariat	92	VI-3.1.2.7	To investigate feasibility and to produce the proposed special study special studies on the dissemination of the TEMPSHIPS	Météo France (Gérard Rey)	ASAP	Ongoing	Because of the recent problems with Goonhilly LES and the route via the station of Aussaguel LES of some messages, some transmission procedures between Aussaguel and Météo-France had to be changed (provider proposing to switch from Telex to e-mail). Meteo France will investigate the results of the backup procedure and propose feedback. Switched to e-mail mode, but no lost messages were noticed and this became lower priority. Asked France-Telecom to send a proposal for an ftp backup (still outstanding).
I-2.4, General Review, Secretariat	93	VI-3.1.2.9	To go ahead with the required developments and routine production of the ASAP monitoring report	Météo France (Gérard Rey)	ASAP	Done	Done
I-2.4, General Review, Secretariat	98	VI-6.6.4	To discuss the details and practicalities of the Australian reimbursement from the ASAP Trust fund	Secretariat (WMO); Australia	ASAP	done	Done
I-2.4, General Review, Secretariat	99	I-5.1.2.8	To make sure that the JCOMMOPS database will remain consistent with the formal version of the WMO Publication No. 47 which resides at WMO	JCOMMOPS	ASAP	Partly done	Partly done; awaiting next update of WMO Publication 47
I-2.4, General Review, Secretariat	100	I-5.1.2.10	To investigate providing additional on-line tools to query the Pub47 database and to investigate whether it would be possible and under what condition to restricting access to the Publication	Secretariat (WMO)	end of 2007	Not done	No resources available at this point for making required developments

I-2.4, General Review, Secretariat	101	I-5.1.2.10	To make every effort to make the compiled submissions routinely available within one month of the due date for the quarterly national submissions	Secretariat (WMO)	Ongoing	Not satisfactor y	WMO doing its best but there are resources issues preventing this to be effective
I-2.4, General Review, Secretariat	103	I-5.2.1.3	To provide the Secretariat with additional questions to ask Inmarsat if needed	SOT Members	SOT-V	Done	No additional question received
I-2.4, General Review, Secretariat	105	I-5.2.1.6	To keep the SOT informed regarding the AIS systems evaluation on moored buoys in order to extend the effective range and for transmitting meteorological data	Robert Luke	SOT-V	Ongoing	Sarah North representing WMO Ship Observations Team (SOT) in the work of the IMO Correspondence Group on AIS binary messages. United States Coast Guard recently approved phase two of this project to have selected buoys the capability of transmitting warning messages. This phase has not yet been initiated at this time. Phase three is still to contain the two-way communications aspect and there is not any word on funding allocation or even extended discussions at this time.
I-2.4, General Review, Secretariat	107	I-6.2.1.3	To investigate and recommend data transmission codes and content, storage and distribution of data, for META-T Pilot Project data streams specific to ship observations	SOT Members; TT/Codes	ASAP	Ongoing	Addressed at the META-T meeting, Sept 2008
I-2.4, General Review, Secretariat	108	I-6.2.1.4	To work with the TT-DMVOS to update the delayed mode exchange format	META-T	ASAP	Ongoing	In progress; addressed by META-T (Geneva, 16-17 Sept 2008) and TT-DMVOS meetings (Gdynia, Poland, 10 May 2008)

I-2.4, General Review, Secretariat	114	I-6.3.5	To review the list of JCOMM Publications for those of interest to the SOT or its sub-Panels	SOT Chairperson; VOSP Chairperson; SOOPIP Chairperson; TT/ASAP Chairperson	Mid 2008	Done	Done
I-2.4, General Review, Secretariat	115	I-6.3.7	To change the Terms of references of the specific Task Teams to include the reviewing the relevant documentation	Secretariat; Task Teams	ASAP	Done	Done
I-2.4, General Review, Secretariat	118	I-8.5.1	To consider contributing to the Ship Consumables Trust Fund administered by the WMO	SOT Members	Ongoing	No contributio n	No contribution made to the trust fund
I-2.4, General Review, Secretariat	119	I-8.6.1	To submit the proposed revised version of the SOT Terms Of Reference to JCOMM-III for consideration and approval	Secretariat	JCOMM- III	Done	Included in JCOMM-III preparatory documentation
I-2.5, SOT TC	1	II-4.1	to provide the results of the XBT Recorder Inter-comparisons study on the SOOPIP web site	SOT TC	Aug-07	Done	Done, waiting input from AOML. NOAA is still finalising the Paper for publication, but some information is referenced under XBT Fall Rate equations on the front page, from NODC. This paper should be ready by May and will appear on the NODC bibliography as referenced on the SOOPIP website: http://www.nodc.noaa.gov/OC5/XBT_BIAS/xbt_bias.html

I-2.5, SOT TC	29	IV-2.4.1.9	To provide for a web page summarizing the quality monitoring tools now available and providing appropriate links	SOT TC	Sep-07	Partly done	Partly done. VOS Several links added to http://wo.jcommops.org/cgibin/WebObjects/JCOMMOPS.woa/wa/monitoring >> Quality >> Ship Based Observations. SOOPIP Information updated on http://www.jcommops.org/soopip/publications.html for CSIRO and AOML
I-2.5, SOT TC	32	IV-3.1.5	To make sure that the mailing lists maintained at JCOMMOPS are consistent with the lists provided on the WMO web site	SOT TC	Ongoing	Done	Done 2/2009. Comparison between www.jcomm.info and sot@jcommops.org, pmo@jcommops.org etc completed. Should be done again in May
I-2.5, SOT TC	73	V-2.4.2.4	To put on the SOOPIP web site's publication section the SIO and AOML manuals for high density XBT equipment set up and operation	SOT TC	Mid 2007	Partly done	Partly done. References added to the SOOPIP Publications page: For SIO (updated 2006) http://www.jcommops.org/soopip/pu blications.html#IMPL
I-2.5, SOT TC	78	V-3.1.5	To investigate the possibility of streamlining the SOOP survey report with increasing web links	SOT TC	SOT-V	Done	Done. Direct links added to the SOOP Indicators application instead of including all of the HTML content in the report.
I-2.5, SOT TC	80	V-3.1.5	To seek advice from the OOPC and the CLIVAR basin panels on the usefulness of the SOOP reports	SOT TC	ASAP	Not done	Not done. This will be assessed in lead up to OceanObs09.
I-2.5, SOT TC	88	VI-1.1.9	To investigate the issue of JCOMMOPS hosting and maintaining an online ASAP metadata database	SOT TC	SOT-V	Ongoing	In progress. http://www.jcommops.org/sot/asap- monitoring.html
I-2.5, SOT TC	95	VI-4.1.3	To include the list of basic factors that need to be taken into consideration when recruiting a new ASAP ship in the ASAP web pages at JCOMMOPS	SOT TC	Sep-07	Ongoing	In progress. Contacted Sarah North to receive the list

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I-4.1, Chair Satellites	TT-	102	I-5.2.1.3	To relay additional questions from the Members of the Task Team on Satellite Communication Systems to Inmarsat and to provide the SOT Chairperson with the answers	TT/Sat; Secretariat (WMO)	SOT-V	No additional feedback	No other questions have been forthcoming from the TT (yet)
I-4.1, Chair Satellites	тт-	104	I-5.2.1.5	To write to the Inmarsat LES operators on a regular basis to check that the list of LES is correct and to provide the information to the WMO for inclusion in the dedicated WMO web page	TT/Sat	Ongoing	Done	Done. Progress to be reported at SOT-V

I-4.3, Chair TT-ASAP To investigate the issue of issue of VI-3.1.2.10 TT/ASAP End 2007 Done standardizing TEST ASAP reports and to make proposals

Rudolf Krockauer - 15/1/2009: It is assumed that test soundings should only be transmitted to the GTS if they are real data and worth of being distributed. Generally there are rather few soundings which are not operational. Most of the TEST soundings were created by the E-ASAP test station at DWD in Hamburg (see also the End-to-end report of the ASAP data dissemination performance 2008, Meteo France) to check and/or configure the system. This station was renamed to ASDE09, following the E-ASAP naming scheme, which is: "AS" for fixed 'ASAP' prefix, + "DE" for 2 char country code, + "09" for number. According to the naming scheme ASDE09 can be identified as German station. All test soundings provided valuable data and were transmitted to the GTS. The proposal for test soundings is: -1- Only real data of good quality shall be transmitted to the GTS. -2-A fixed station name shall be used for test stations (preferably according to the E-ASAP naming scheme to avoid name conflicts)

I-4.3, Chair TT-ASAP 96 VI-4.1.8 To contact POGO and investigate TT/ASAP Mid 2008 Ongoing Rudolf Krockauer - 15/1/2009: No the issue of having Research Vessels taking part in the activities of the ASAP

ASAP container launcher was reported to be free for research campaigns. Nonetheless, there are some comments: (i) The Shelf-basin exchange campaign of the Research Vessel R/V KNORR (Woods Hole Oceanographic Institution) October 2008 was supported by E-ASAP by providing Radiosondes, balloons, and helium. 32 soundings were received around Iceland: and (ii) In March/April 2009 the German Research Vessel MARIA S. MERIAN will conduct a 3-week research campaign around the Cape Verde Islands in the Atlantic. The vessel will be equipped with an fully functional ASAP container (station ASDE03) which had to be removed from board the Sealand Motivator due to changes in the line service. But the efforts to install and deinstall ASAP containers on board should not be underestimated. In case of the MARIA S. MERIAN all costs for transportation of the container to Dakar (Senegal), installation on board of the ship, deinstallation after 3 weeks and return to Germany are paid by the Research Institute MARUM in Bremerhaven, not by E-ASAP. Both research campaigns are supported by E-ASAP (by providing Radiosondes, balloons, helium) since the soundings are in the area of interests of E-ASAP (on behalf of 24 European Met Services). Basically, accommodating ASAP containers on board of Research Vessels depends on where, how long, and who pays the costs.

I-4.3, Chair TT-ASAP	97	VI-4.6.1	To carefully check the liability insurances and to avoid launching Radiosondes when the ship is sailing closer to 75 nm from the coasts	VOS Members	Ongoing	Unknown	USA: N/A as US does not support ASAP at this time.
I-4.4, Chair TT-VRPP	9	I-4.1.5	To consider producing a VOS training video	TT/VRPP	SOT-V	No progress	No progress
I-4.4, Chair TT-VRPP	58	IV-4.5.6	To consider the editing of training materials such as CD-ROMs as well as the organization of training workshops	TT/VRPP	SOT-V	Ongoing	PMO-IV possibly organized in 2010 in RA-III or RA-IV
I-4.4, Chair TT-VRPP	59	IV-4.6.3	To investigate the conduction of an impact assessment study of the VOF in liaison with other appropriate bodies and to report at the next SOT Session.	TT/VRPP	SOT-V	Done	Document submitted to AOPC. Rolling review of Requirements and Statements of Guidance for global NWP, regional NWP, and Synoptic Meteorology express the need for surface pressure observations (Surface pressure observations are important to anchor the model surface pressure). AOPC-14 (April 2008) acknowledged the detailed reports from the WMO Secretariat and Dr Elizabeth Kent and colleagues on VOS and VOSClim issues. AOPC reaffirmed the great value of the VOS datasets for climate studies. This type of observation remains a key component of the climate observing system. The Panel stressed the need to maintain the operations of the VOS programme and adequate delivery of VOS data to international data centres.

I-4.6, Chair TT-Codes	6	I-2.1.14	To provide guidance to the ETMC regarding GTS distribution in BUFR code, in particular: (i) whether BUFR is going to be assembled on board or at the local receiving NMSs before being inserted into the GTS, and (ii) if on board, which BUFR template should be used.	TT/Codes	Sep-07	Ongoing	Issue being addressed by the DMCG Task Team on Table Driven Codes
I-4.6, Chair TT-Codes	106	I-6.2.1.2	To liaise with the META-T in order to take the META-T requirements for category 1 metadata into account when defining BUFR templates for ship data	TT/Codes; TT/Instr; META- T	ASAP	Ongoing	Considered at the META-T meeting in Sept 2008. Derrick Snowden (META-T Chair) & Robert Luke discussed this in March 2009
I-4.6, Chair TT-Codes	109	I-6.2.2.3	To submit any required changes to BUFR tables and templates to the JCOMM DMPA Table Driven Codes Task Team (TT/TDC) for consideration by the CBS Expert Team on Data Representation and Codes	TT/Codes	End 2007	Ongoing	Issue being addressed by the DMCG Task Team on Table Driven Codes
I-4.6, Chair TT-Codes	112	I-6.2.2.4	To make recommendations to the DMPA TT on TDC regarding improving consistency between the Argo and XBT templates	TT/Codes	End 2007	Ongoing	Issue being addressed by the DMCG Task Team on Table Driven Codes
I-4.7, Chair TT-Instruments	5	I-2.1.13 and IV-3.5.7	To conduct a comparison study of electronic logbooks (including algorithms, and documenting the calculation methods of dew point for historical purposes), with participation from both SOT and ETMC	TT/Instr	SOT-V	Done	Done. Electronic Log book comparison is complete and will be included i TT - Inst report. The dew point calculation information has been forwarded to ETMC for their review
I-4.7, Chair TT-Instruments	113	I-6.3.2 and I-6.3.6	To continue the efforts of developing high quality best practices for the VOF with the goal of publishing them as a JCOMM Technical Report during the next intersessional period	TT/Instr; Secretariat (WMO)	SOT-V	Ongoing	Still under review.

I-4.7, C Instrumen	Chair nts	тт-	116	I-6.3.7	To investigate how the different publications or technical documents dealing with best practices could be better integrated into fewer number of documents or into existing ones	TT/Instr	SOT-V	Not done	Inadvertently overlooked. Will begin collating information asap.
I-4.9, C VOSClim	Chair	TT-	2	II-4.5	to provide VOSClim uncertainty maps and time series of uncertainty	TT/VOSClim	End 2007	Not done	Not yet done, but should be available for SOT-V
I-4.9, C VOSCIim	Chair	TT-	41	IV-3.7.1	To consider how many observations are needed from the VOSClim yearly	TT/VOSClim	End 2007	Not done	Not yet done, but should be available for SOT-V
I-4.9, C VOSCIim	Chair	тт-	45	IV-3.7.1	To revise the VOSClim brochure	TT/VOSClim	Mid 2008	Delayed	Decision whether to revise the brochure should be delayed until consideration of VOSClim best practices at SOT-V
I-4.9, C VOSCIim	Chair	тт-	117	I-6.3.7	To consider adopting VOSClim best practices more generally under the VOS scheme	TT/VOSClim	SOT-V	Ongoing	Will outline this issued in the VOSClim Task-Team report, with reference to the proposed changes to GCC data flows and ET-DMVOS plans. To be discussed at SOT-V.
III-1.2, Cha	air VOS	SP	3	II-4.5	To include VOS ships providing good quality data in the VOSClim provided that appropriate metadata are made available	VOS Operators	Ongoing	USA ok	USA: US VOS still continuing to increase its VOSCLIM recruitment (albeit slowly)
III-1.2, Cha	air VOS	SP	10	I-4.4.2	To check the VOSClim project website (recently updated) to verify ships and call sign changes to make sure that none are missing	VOSClim operators	Ongoing	Unknown	
III-1.2, Cha	air VOS	SP	11	IV-1.1.12	To work with WMO in order to identify active ships and remove the historical records from WMO Pub. 47 for ships which are not active anymore	VOSP Chairperson; Secretariat (WMO)	Mid 2008	Done	Done

III-1.2, Chair VOSP	12	IV-2.1.1.6	To fill in the VOS automation fields in their submissions of WMO Publication 47 metadata as of 1 July 2007 as the new format that will come into force by then will permit the inclusion of such information	VOSP Members	1-Jul-07	USA done	USA: Done
III-1.2, Chair VOSP	13	IV-2.1.1.7	To increasingly implement automated systems on the fleet while at the same time recognizing the requirements expressed by the ETMC that traditional variables that can only be observed manually should continue to be submitted	VOSP Members	Ongoing	USA done	USA: Done
III-1.2, Chair VOSP	14	IV-2.1.1.8	To review and correct the data in the document presented by the Chairperson and to provide the Chairperson with details of any automated VOS systems that are not included in this report	VOSP Members	SOT-V	USA done	USA: Done
III-1.2, Chair VOSP	21	IV-2.2.4	Interested Members to contact Pierre Blouch to obtain copies of the half compressed data transmission software	VOSP Members	Ongoing	France only	Only Météo-France is using the software but they have very few conventional vessels as almost 100% of the French fleet is automated.
III-1.2, Chair VOSP	26	IV-2.4.1.6	To make use of the available tools to monitor the quality of the VOS data and to provide feedback to ships on how to improve bad data, and to use the monthly VOS status maps to identify data sparse areas where more ship observations are required	VOS Programme Managers; PMOs	Ongoing	USA done	USA: done

III-1.2, Chair VOSP	27	IV-2.4.1.6	To advise the RTMC (email to obsmon@metoffice.gov.uk) of investigations undertaken into the causes of bad data identified on the VOSClim Suspect List and to report on the corrective actions taken	VOS Programme Managers	Ongoing	Done	Done
III-1.2, Chair VOSP	28	IV-2.4.1.6	To provide a summary of corrective actions by email to the VOSClim RTMC	PMOs; VOS Focal Points	Ongoing	SOT5	To be reported at SOT-V
III-1.2, Chair VOSP	34	IV-3.2.6	To provide details of remedial actions taken to the DAC by email	PMOs	Ongoing	SOT5	To be reported at SOT-V
III-1.2, Chair VOSP	40	IV-3.7.1	To make efforts to increase the number of observations and the number of VOS ships recording the additional parameters	VOSP Members	Ongoing	USA ok	USA: Done
III-1.2, Chair VOSP	43	IV-3.7.1	To directly submit metadata to the RSMC, Exeter on a monthly basis in addition to the quarterly submissions to WMO	VOSP Members	Ongoing	Ongoing	E-SURFMAR (50% of the VOS fleet) ready for submitting metadata for European VOS or providing access rights to RSMC for the E-SURFMAR metadata database. USA: Need to research this a bit longer

III-1.2, Chair VOSP	49	IV-4.3.4	To routinely check the multiple recruited ship list available from the URL http://www.meteo.shom.fr/vosmonitoring/multi-recruit.html and to attempt to reach an agreement to determine which country should be assigned future responsibility for the indicated ships on the 'multiple recruitment' list	VOSP Members	Ongoing	Considere d; then stopped	Météo-France does not recommend using this application anymore and it is about to be removed because it is based on WMO Pub47 which is not always up to date. However, E-SURFMAR database can be used to that end at least for the European, Australian, and New Zealand vessels (recorded in this database). An SQL query can easily be written for listing all multiple recruited ships. There are none on 16/1/2009. PMOs are invited to check the database if a vessel they are planning to recruit is not already recorded in the database and recruited by another country. All NMHSs, including non-European are encouraged to use this application in read/write mode to optimize the query of multiple recruited ships. USA: Done
III-1.2, Chair VOSP	51	IV-4.4.8	To consider providing mercury spillage kits on ships where mercury remains in use in order to mitigate risks associated to health and safety for the ships, the observing officers and ship's staff, and for the PMOs	VOSP Members	Ongoing	USA ok	USA: concur - all mercury is/being removed form US VOS vessels
III-1.2, Chair VOSP	54	IV-4.5.4	To advise the extent of data rejections in the countries hosting Inmarsat LES in order that a clearer assessment of the extent of the problem can be determined, and to report to the VOSP Chairperson	VOSP Members	SOT-V	USA ok	USA: in queue to be completed

III-1.2, Chair VOSP	55	IV-4.5.5	To make use of the JCOMMOPS quality information relay web page or mailing lists to inform the VOS operators about persistent elogbook problems and to set up the data processing software routines to automatically relay rejected messages back to the VOS recruiting country focal points	VOSP Members	Ongoing	USA ok	USA: concur
III-1.2, Chair VOSP	56	IV-4.5.6	To implement appropriate quality control checks in e-logbooks	VOSP Members	SOT-V	USA ok	USA: Done
III-1.2, Chair VOSP	61	IV-5.1.3	To provide comments on the Guide to making climate quality meteorological and flux measurements at sea to Shawn Smith	VOSP Members	End 2007	Unknown	USA: concur
III-1.2, Chair VOSP	62	IV-5.1.4	To consider making more SST observations in support of GHRSST while recording appropriate metadata including measurement type and the depth of the instrument	VOS Operators	Ongoing	USA ok	USA: okay - will comply as much as feasible
III-1.2, Chair VOSP	63	IV-5.2.2	To liaise with the WMO Secretariat regarding updating the MSC circular 1017 to include ship owners and masters concerns regarding VOS data exchange.	VOSP Chairperson; WMO	MSC-83	Done	Done
III-4.4, Chair VOSP	50	IV-4.4.7	To aim at phasing out the future supply of mercury thermometers to observing ships	VOS operators	Ongoing	USA ok	USA: Ended that process in 2002.
IV-1.2, Chair SOOPIP	64	V-2.2.1	To contribute to the trust fund and to set priorities and a workplan for the XBTs that could be purchased by the Trust Fund, should donations be received	SOOPIP Members	SOT-V	No contributio n	No contribution made to the trust fund

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like to hear from them.

IV-1.2, Chair SOOPIP	65	V-2.3.3	AX-15, Europe - Cape of Good Hope. Gustavo Goni noted that a Spanish university was running a TSG on a ship on this route, and that he would contact them to see if XBT sampling was possible (report back to SOOPIP Chairperson)	Gustavo Goni;	ASAP	Unknown	
IV-1.2, Chair SOOPIP	66	V-2.3.3	PX-36, Christchurch – McMurdo. The Panel noted that the <i>Palmer</i> plied this route occasionally, and Pezzoli agreed to contact the Palmer to see if they were willing to perform XBT sampling in the Southern Ocean (report back to SOOPIP Chairperson)	Glenn Pezzoli;	ASAP	Ongoing	The Palmer seems to be relegated to the South American side for the foreseeable future, with the demise of the Gould - NSF has decided not to renew the Gould's contract past May. Glenn Pezzoli has just returned from upgrading the Palmer's XBT computer while in Punta Arenas for the Revelle (Argo), and she isn't intending to cross the Pacific back to NZ anytime soon (thru 2010). SIO hopes that changes. Glenn has heard rumours that NSF might be re-considering its decision to cut the Gould loose. If they reverse this decision that may free up the Palmer to resume support transects to McMurdo. Glenn is beginning to look into what vessels might be calling McMurdo and other stations that side, for Argo deployments there (not XBT). Glenn will inform SOT-V if any of these look like good candidates for XBTs. If anyone knows of any such ships that are good for Argo, he'd really

IV-1.2, Chair SOOPIP	67	V-2.3.3	PX-81, Honolulu - Coronel (Chile). Pezzoli noted that the ships on this line had ceased calling in Hawaii. Pezzoli and Fujimoto agreed to search for a ship that did the Japan to western coast of S. America route non-stop (report back to SOOPIP Chairperson).	Glenn Pezzoli; Toshifumi Fujimoto	ASAP	Ongoing	There may be a few wood chip carriers calling HNL onward to Chile on occasion, but this is at the bottom of our list. Must check with the HNL agents. There was the odd ship calling for bunkers but it seemed a one-off. Replacing our ships going off trade, consolidating our work in the Indian ocean, and restoring p50 is our highest priority. Once SIO gets that sorted then SIO will look to re-starting p05. P81 HNL-Chile might follow that if SIO still has the resources.
IV-1.2, Chair SOOPIP	72	V-2.4.1.4	To record the launch system type, the probe type, the serial number, and the date of manufacture of the XBT in the metadata, to help if a future determination of the fall rate equation is found to depend on one of these variables	SOOP operators	Ongoing	Unknown	
IV-1.2, Chair SOOPIP	74	V-2.5.5	To send a certificate of appreciation to the ship of IX08	SOOPIP chairperson	ASAP	Unknown	
IV-1.2, Chair SOOPIP	75	V-2.5.5	To insert the data from IX08 into the GTS	Gopalakrishna; Gustavo Goni	ASAP	Ongoing	Despite efforts, IX-8 line (Bombay - Mauritius) could not be resumed (cabin accommodation not provided due to intense Piracy Problem in the East African Coastal region). Hence NIO could not put the XBT data on GTS. However, the XBT data collected in the Bay of Bengal IX-14 is being sent to AOML with in 30 days after collection for GTS insertion. NIO is constantly in touch with various shipping companies and requesting for placement to resume IX08. More detail to be provided at SOT-V.

IV-1.2, Chair SOOPIP	76	V-2.6.5	To consider adopting and improving Argo QC procedures to achieve an homogeneous standard for automated real-time QC of XBT profiles before insertion on GTS	CSIRO; AOML	End 2007	Ongoing	Ann Gronell Thresher (15/1/2009): The Argo QC procedures aren't directly applicable in many cases to the XBT data (impossible speed, digit rollover, stuck value, density inversion, grey list, temperature sensor drift) but some are (impossible date/time/location tests, gradient tests, spike test) so I'll work on a manual that incorporates these tests as well as any more I can think of and send it for review.
IV-1.2, Chair SOOPIP	79	V-3.1.5	To provide ongoing feedback to the TC on the usefulness of the SOOP survey report	SOOPIP Members	ASAP	Unknown	
IV-1.2, Chair SOOPIP	81	V-3.3.1.11	To work on a unified definition of scientific QC for the delayed-mode data stream	SOOPIP members involved in GTSPP	End 2007	Unknown	
IV-1.2, Chair SOOPIP	82	V-3.3.1.11	To investigate submitting a proposal to NOAA's Data Stewardship Program to restart the GTSPP based at NOAA/NODC	Gustavo Goni; Charles Sun	ASAP	Unknown	
IV-1.2, Chair SOOPIP	83	V-4.1.7	to serve on the organizing committee for an Upper Ocean Review	Gustavo Goni	2009	Done	Liaising with organizing committee
IV-1.2, Chair SOOPIP	85	V-5.2.3	To urge IOCCP to release salinity data to data archives in a timely manner	SOOPIP Chairperson	ASAP	Ongoing	See action V-5.2.3

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IV-1.2, Chair SOOPIP	110	I-6.2.2.4	To develop and test the encoding of XBT and TSG data and associated metadata in BUFR using trial BUFR templates	AOML	End 2007	Ongoing	New template discussed at the XBT fall rate workshop; AOML has been encoding/decoding XBT and TSG BUFR bulletins using ad-hoc templates. Some preliminary tests made with NCEP and AOML files could be decoded successfully. AOML's work is now focusing on integrating the BUFR encoding tasks within their operational framework. AOML will provide additional details about this work at SOT-V
IV-1.2, Chair SOOPIP	111	I-6.2.2.4	To initiate work for eventually transmitting XBT data on GTS in BUFR format and to liaise with AOML in order to benefit from its experience in this regard	SOOPIP Members	SOT-V	Unknown	
