

| Reviewd at agenda item, by | No | Item | Action | By | Secr | Deadline | Asked | Status |
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| 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) | WMO | End 2007 | Y | 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 IOC de la Villeon) ; Ferrybox (Colijn) | | SOT-V | Y | 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 | WMO | Aug-07 | Y | 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-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) | WMO | SOT-V | Y | 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) | WMO | SOT-V | Y | Any requirements received from SOT are immediately passed to 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 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 | WMO | SOT-V | Y | 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 | WMO | Ongoing | Y | 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 | WMO | SOT-V | Y | DMCG created Task Team on Table driven codes including with representation from SOT, ETMC. |

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| 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 | WMO | Ongoing | Y | 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 | WMO | Early 2009 | Y | 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 | WMO | SOT-V | Y | 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 Watchkeepers (STCW) convention) ensures adequate training in the modern observational practices | SOT Members | WMO | SOT-V | Y | |
| 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 | WMO | Ongoing | Y | 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. | WMO | SOT-V | Y | |
| 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) | WMO | Ongoing | Y | 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 | WMO | ASAP | Y | 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 | WMO | Ongoing | Y | 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 | WMO | Ongoing | Y | 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/climate/vosclim/links.html and let me know if you have a website for your national VOS activities that you would like added 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 | WMO | Aug-07 | Y | Done |

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| I-2.4, General Review, Secretariat | 38 | IV-3.5.9 | Not to mask the delayed mode data | VOS Operators | WMO | Ongoing | Y | 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 | WMO | May-08 | Y | 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) | WMO | End 2007 | Y | 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 | WMO | SOT-V | Y | 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 | WMO | Mid 2008 | Y | 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 | WMO | End 2007 | Y | |
| 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 | WMO | End 2007 | Y | 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) | WMO | SOT-V | Y | 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 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 Intercomparisons 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 | WMO | SOT-V | Y | 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 | WMO | Ongoing | Y | 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 | WMO | SOT-V | Y | 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 AutoImet ship observations before we expand to assume a more complete real time data process. The SAMOS data is already available for climate studies. |

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| 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); | IOC | ASAP | Y | |
| 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; | IOC | ASAP | Y | 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 | IOC | End 2007 | Y | |
| 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) | IOC | SOT-V | Y | |
| 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 | IOC | End 2007 | Y | 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. |
| I-2.4, General Review, Secretariat | 84 | V-5.2.3 | To coordinate procedures for near-real-time insertion of salinity data on GTS | IOCCP; AOML | IOC | End 2007 | Y | http://www.jcommops.org/soopip/publications.html 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 we will have accommodate the extra [personnel] costs involved). I expect that internationally we could make a plea through IO |
| 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 | IOC | ASAP | Y | |
| 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 Ansonge, UCT) at future meetings of the panel | Secretariat (IOC) | IOC | SOT-V | Y | |

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| I-2.4, General Review, Secretariat | 89 | VI-1.1.14 | To provide guidance and to suggest specific areas that should be targeted in order to improve the quality of the global NWP model forecasts | ECMWF (Antonio Garcia-Mendez) | WMO | End 2007 | Y | Fourth WMO Workshop on the Impact of Various Observing Systems on NWP, Geneva, Switzerland, 19-21 May 2008 addressed radion-sondes 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 radio sonde data in the Southern Hemisphere and in the North Pacific for satellite calibration | ECMWF (Antonio Garcia-Mendez) | WMO | End 2007 | Y | |
| 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) | WMO | Ongoing | Y | |
| 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 TEMP Ships | Météo France (Gérard Rey) | WMO | ASAP | Y | 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 a 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) | WMO | ASAP | Y | 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 | WMO | ASAP | Y | 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 | WMO | ASAP | Y | 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) | WMO | end of 2007 | Y | 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) | WMO | Ongoing | 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 | WMO | SOT-V | Y | |

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| 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 | WMO | SOT-V | Y | 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 | WMO | ASAP | Y | 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 | WMO | ASAP | Y | 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 | WMO & IOC | Mid 2008 | Y | |
| 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 | WMO & IOC | ASAP | Y | 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 | WMO | Ongoing | Y | 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 | WMO & IOC | JCOMM-III | Y | 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 | IOC | Aug-07 | Y | Done, awaiting 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 | WMO | Sep-07 | Y | Partly done. VOS Several links added to http://wo.jcommops.org/cgi-bin/WebObjects/JCOMMOPS.woa/wa/monitoring >> Quality >> Ship Based Observations. SOOPIP Information updated on http://www.jcommops.org/sooip/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 | WMO | Ongoing | Y | 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 | IOC | Mid 2007 | Y | Partly done. References added to the SOOPIP Publications page: For SIO (updated 2006) http://www.jcommops.org/sooip/publications.html#IMPL |

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| 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 | IOC | SOT-V | Y | 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 | IOC | ASAP | Y | 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 | WMO | SOT-V | Y | 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 | WMO | Sep-07 | Y | In progress. Contacted Sarah North to receive the list |
| I-4.1, Chair TT-Satellites | 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) | WMO | SOT-V | Y | No other questions have been forthcoming from the TT (yet) |
| I-4.1, Chair TT-Satellites | 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 | WMO | Ongoing | Y | Done. Progress to be reported at SOT-V |
| I-4.3, Chair TT-ASAP | 94 | VI-3.1.2.10 | To investigate the issue of issue of standardizing TEST ASAP reports and to make proposals | TT/ASAP | WMO | End 2007 | Y | 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) |

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| I-4.3, Chair TT-ASAP | 96 | VI-4.1.8 | To contact POGO and investigate the issue of having Research Vessels taking part in the activities of the ASAP | TT/ASAP | WMO | Mid 2008 | Y | Rudolf Krockauer - 15/1/2009: No 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) in 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 de-install 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, de-installation after 3 weeks and return to Germany are paid by the Research Institute MARUM in Bremerhaven, not by E-ASAP. Both res |
| 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 | WMO | Ongoing | Y | 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 | WMO | SOT-V | Y | 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 | WMO | SOT-V | Y | 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 | WMO | SOT-V | Y | Document submitted to AOPC |
| 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 | WMO | Sep-07 | Y | 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 | WMO | ASAP | Y | 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 | WMO | End 2007 | Y | 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 | WMO | End 2007 | Y | Issue being addressed by the DMCG Task Team on Table Driven Codes |

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| 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 | WMO | SOT-V | Y | 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) | WMO | SOT-V | Y | Still under review. |
| I-4.7, Chair TT-Instruments | 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 | WMO & IOC | SOT-V | Y | Inadvertently overlooked. Will begin collating information asap. |
| I-4.9, Chair TT-VOSClim | 2 | II-4.5 | to provide VOSClim uncertainty maps and time series of uncertainty | TT/VOSClim | WMO | End 2007 | Y | Not yet done, but should be available for SOT-V |
| I-4.9, Chair TT-VOSClim | 41 | IV-3.7.1 | To consider how many observations are needed from the VOSClim yearly | TT/VOSClim | WMO | End 2007 | Y | Not yet done, but should be available for SOT-V |
| I-4.9, Chair TT-VOSClim | 45 | IV-3.7.1 | To revise the VOSClim brochure | TT/VOSClim | WMO | Mid 2008 | Y | Decision whether to revise the brochure should be delayed until consideration of VOSClim best practices at SOT-V |
| I-4.9, Chair TT-VOSClim | 117 | I-6.3.7 | To consider adopting VOSClim best practices more generally under the VOS scheme | TT/VOSClim | WMO | SOT-V | Y | 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, Chair VOSP | 3 | II-4.5 | To include VOS ships providing good quality data in the VOSClim provided that appropriate metadata are made available | VOS Operators | WMO | Ongoing | Y | USA: US VOS still continuing to increase its VOSCLIM recruitment (albeit slowly) |
| III-1.2, Chair VOSP | 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 | WMO | Ongoing | Y | |
| III-1.2, Chair VOSP | 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) | WMO | Mid 2008 | Y | 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 | WMO | 01-Jul-07 | Y | 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 | WMO | Ongoing | Y | 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 | WMO | SOT-V | Y | 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 | WMO | Ongoing | Y | Only Météo-France is using the software but they have very few conventional vessels as almost 100% of the French fleet is automated. |

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| 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 | WMO | Ongoing | Y | 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 | WMO | Ongoing | Y | 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 | WMO | Ongoing | Y | 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 | WMO | Ongoing | Y | 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 | WMO | Ongoing | Y | 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 | WMO | Ongoing | Y | 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/vos-monitoring/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 | WMO | Ongoing | Y | 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 | WMO | Ongoing | Y | USA: concur - all mercury is/being removed from 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 | WMO | SOT-V | Y | 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 e-logbook 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 | WMO | Ongoing | Y | USA: concur |

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| III-1.2, Chair VOSP | 56 | IV-4.5.6 | To implement appropriate quality control checks in e-logbooks | VOSP Members | WMO | SOT-V | Y | 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 | IOC | End 2007 | Y | USA: concur |
| III-1.2, Chair VOSP | 62 | IV-5.1.4 | To consider making more SST observations in support of GHRSSST while recording appropriate metadata including measurement type and the depth of the instrument | VOS Operators | WMO | Ongoing | Y | 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 | WMO | MSC-83 | Y | 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 | WMO | Ongoing | Y | 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 | IOC | SOT-V | Y | No contribution made to the trust fund |
| 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; | IOC | ASAP | Y | |
| 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 <i>Palmer</i> to see if they were willing to perform XBT sampling in the Southern Ocean (report back to SOOPIP Chairperson) | Glenn Pezzoli; | IOC | ASAP | Y | The <i>Palmer</i> seems to be relegated to the South American side for the foreseeable future, with the demise of the <i>Gould</i> - NSF has decided not to renew the <i>Gould's</i> contract past May. Glenn Pezzoli has just returned from upgrading the <i>Palmer's</i> XBT computer while in Punta Arenas for the <i>Revelle (Argo)</i> , and she isn't intending to cross the Pacific back to NZ anytime soon (thru 2010). SIO hopes that changes. Glenn has heard rumors that NSF might be re-considering its decision to cut the <i>Gould</i> loose. If they reverse this decision that may free up the <i>Palmer</i> to resume support transects to McMurdo. Glenn is beginning to look into what vessels might be calling McMurdo and other stations that side, for <i>Argo</i> 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 good for <i>Argo</i> , he'd really like to hear from them. |
| 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 nonstop (report back to SOOPIP Chairperson). | Glenn Pezzoli; Toshifumi Fujimoto | IOC | ASAP | Y | 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. |

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| 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 | IOC | Ongoing | Y | |
| IV-1.2, Chair SOOPIP | 74 | V-2.5.5 | To send a certificate of appreciation to the ship of IX08 | SOOPIP chairperson | IOC | ASAP | Y | |
| IV-1.2, Chair SOOPIP | 75 | V-2.5.5 | To insert the data from IX08 into the GTS | Gopalakrishna; Gustavo Goni | IOC | ASAP | Y | Despiter 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 | IOC | End 2007 | Y | 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 | IOC | ASAP | Y | |
| 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 GTSP | IOC | End 2007 | Y | |
| 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 GTSP based at NOAA/NODC | Gustavo Goni; Charles Sun | IOC | ASAP | Y | |
| IV-1.2, Chair SOOPIP | 83 | V-4.1.7 | to serve on the organizing committee for an Upper Ocean Review | Gustavo Goni | IOC | 2009 | Y | 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 | IOC | ASAP | Y | See action V-5.2.3 |
| 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 | WMO | End 2007 | Y | 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 | WMO | SOT-V | Y | |