FOURTH INTERNATIONAL PORT METEOROLOGICAL OFFICER CONFERENCE (PMO-IV), AND SUPPORT TO GLOBAL OCEAN OBSERVATIONS USING SHIP LOGISTICS
8-10 December 2010, Orlando, Florida, USA

ANNOTATED PROVISIONAL PROGRAM

Wednesday 8 December 2010 – Morning

No	Time	Presenter(s) (Leader in bold)	PMO Conference (PMO-IV)
	8:30 (15 mins)	**Mark Paese (NWS, USA)** Helmut Portmann (NDBC, USA) Graeme Ball (SOT Chair, AUS) Etienne Charpentier (WMO) Bill Burnett (NDBC, USA)	NOAA/NWS, WMO & SOT Welcome, local arrangements
1	8:45 (5 mins)	Graeme Ball	Conference Goals: - Foster common standards and practices; - Provide a forum for PMOs to meet and strengthen network cooperation; - Update on new and latest initiatives; - Discuss common issues - Support to global ocean observations using ship logistics
	8.50 (15 mins)	Graeme Ball	Participants' Introductions
2	9.05 (10 mins)	Julie Fletcher (VOSP Chair, NZ)	Review of Action Items From PMO-III
	9.15 (15 mins)	**Julie Fletcher** Graeme Ball	VOS developments since PMO-III, includes: - New VOS Classes - What is required to upgrade to VOSClim class - Results of the E-logbook inter-comparison - Latest changes in the 3 E-logbook types - New metadata requirements - Metadata collection tools and XML generator - Submission schedule and exchange formats - Inspection of foreign VOS - VOS databases - WMO Pub 47 - online catalogue/database - VOS Website - Program promotion initiatives - Codes, introduction of BUFR - Ship security and callsign masking - Alternative methods of sending observations - SOT trial of IMO Number for callsign - E-Surfmar TT on AWS - Expanded role of the PMOs
3	9:30 (15 mins)	John Wasserman (NDBC, USA)	Presentation by IHS Fairplay
4	9:45 (45 mins, incl. 10 min for questions)	Graeme Ball	Role of the PMO

	10:30 (30 mins)		Morning Tea
5	11:00 (65 mins, inc 10 mins for questions)	**Julie Fletcher** Sarah North (UK Met Office)	Recruitment, includes: • Ways to retain VOS and increase recruitments • Ways to increase Obs • New VOS Classes • Upgrading VOS to VOSClim – the UK VOSClim initiative
	12:05 (60 mins)		Lunch

Wednesday 8 December 2010 – Afternoon

	Time	**Presenter(s) (Leader in bold)**	**PMO Conference (PMO-IV)**
6	13:05 (55 mins, inc. 10 mins for questions)	**Julie Fletcher** Bert de Vries (KNMI, NL) John Wasserman Caridad Ibis Gonzales	E-Logbook Software, includes: • Results of inter-comparison • Latest changes in 3 E-logbook types • SEAS status, changes and plans
7	14:00 (60 mins, inc, 10 mins for questions.)	Graeme Ball	WMO Pub47 requirements, includes: • New requirements • Collection tools and XML generator • Submission requirements
	15:00 (30 mins)		Afternoon Tea
8	15:30 (55 mins, inc, 10 mins for questions.)	Julie Fletcher	Ship Inspections, includes: • Frequency • Feedback • Foreign VOS Inspection Form • Non-VOS inspections
9	16:25 (55 mins, inc, 10 mins for questions.)	**Etienne Charpentier** Jean-Pierre Kerserho (Météo France) John Wasserman	Databases, includes: • E-Surfmar VOS Database • US IVOS • WMO Pub 47
	17:20		**Close Day 1**

Thursday 9 December 2010 – Morning

	Time	**Presenter(s) (Leader in bold)**	**PMO Conference (PMO-IV)**
10	8:30 (55 mins, inc, 10 mins for questions.)	Sarah North	Data Quality, includes: • RSMC and RTMC monitoring and feedback • Météo France VOS QM Tools
11	9:25 (65 mins, inc, 10 mins for questions.)	Graeme Ball	VOS Website, includes : • VOS Promotion – VOS PPS, Flyer, MSC 1293 • SOT Certificate • Mailing Lists • "Find a PMO" Google Earth application • Marine Observers Log • Quick Reference Guides

			• Foreign VOS equipment types and settings • QM Links
	10:30 (30 mins)		Morning Tea
12	11:00 (30 mins, inc, 10 mins for questions.)	Etienne Charpentier	Codes, includes: • Introduction • Migration to BUFR
13	11:30 (40 mins, inc, 10 mins for questions.)	Graeme Ball	Ship Security, includes: • Background to the problem • Interim solutions • SOT proposal for a permanent solution
	12:10 (60 mins)		Lunch

Thursday 9 December 2010 – Afternoon

	Time	Presenter(s) (Leader in bold)	PMO Conference (PMO-IV)
14	13:10 (40 mins, inc, 10 mins for questions.)	**Sarah North** Julie Fletcher	Automation of Observations, includes: • E-Surfmar AWS project • Data compression – methods and benefits • Bulletins for asynoptic observations • Alternative communications methods
15	13:50 (130 mins)	Bill Burnett	National Presentations – concentrate on VOS & PMO activities and support for other ocean observing activities (strictly 10 minutes maximum per country, 1 representative per country). **Report were presented by the following countries:** Australia, Bahamas, Canada, Chile, Gambia, Germany, Guatemala, Hong-Kong (China), Indonesia, Ireland, New Zealand, Russia, Sri Lanka, United Kingdom, and the USA. A Joint report was presented by Gambia, Kenya, Morocco, and Senegal.
	15:00 (30 mins)		Afternoon Tea
	15:30 continued		National Presentations (continued)
	16:30 (30 mins)	Graeme Ball	General Discussion.
16	17:00 (15 mins)	**Sarah North** Graeme Ball	Other PMO Activities, includes: • Support for drifting buoy deployments • Support for profiling float deployments • Support for the XBT SOOP • Support for ASAP
17	17:15 (45 mins, inc, 10 mins for questions.)	Rick Lumpkin (GDP Chair, AOML, USA)	Deployment of drifting buoys from ships: • Requirements • Methods • Safety measures
	18:00		**Close Day 2**

Friday 10 December 2010 – Morning

	Time	Presenter(s) (Leader in bold)	Support to Global Ocean Observations using Ship Logistics
18	08:30 (30 mins, inc, 10 mins for questions.)	Gustavo Goni (SOOPIP Chair, AOML, USA)	The need for ship resources to support global observations
19	09:00 (30 mins, inc, 10 mins for questions.)	Sid Thurston (NOAA, USA)	The Partnership for new GEOSS Applications (PANGEA)
20	09:30 (30 mins, inc, 10 mins for questions.)	Mathieu Belbéoch (JCOMMOPS)	Monitoring and management of ship logistics opportunities
21	10:00 (60 mins, inc, 10 mins for questions.)	**Gus Mckay (SAWS, South Africa)** David Meldrum (SAMS, UK)	Recruitment of ship resources • Requirements • Available materials for ship recruitment and promotion • Costs • Discussions with maritime companies • Discussions with the ship's staff • Charting of vessels for drifter and float deployments
	10:30 (30 mins)		Morning Tea
	11:00 continued		Recruitment of ship resources (continued)
22	11:30 (30 mins)	Liz Tirpak (State Dept., USA)	The UNCLOS research consent regime: implementation & international debate
	12:00 (60 mins)		Lunch

Friday 10 December 2010 – Afternoon

	Time	Presenter(s) (Leader in bold)	Support to Global Ocean Observations using Ship Logistics
23	13:00 (30 mins, inc, 10 mins for questions.)	Tim Askew (UNOLS, USA)	The use of Research Vessels to support global ocean observations • Types of offered services • Requirements and constraints • Planning & scheduling • Ship time and costs
24	13:30 (30 mins, inc, 10 mins for questions.)	Robert Roddy (AOML, USA)	Deployment of floats from ships • Requirements • Methods • Safety measures
25	14:00 (60 mins, inc, 10 mins for questions.)	Volker Weidner (DWD, Germany)	Use of ship resources in support of the ASAP • Requirements • Methods • Safety • Costs
	15:00 (30 mins)		Afternoon Tea

26	15:30 (60 mins, inc, 10 mins for questions.)	**Gustavo Goni** Shaun Dolk Francis Bringas	Collaborative arrangements that could be developed between all actors • Sharing of resources • Filling gaps • Charting of vessels to serve a group of ocean platform operators • VOS impact on the Global Drifter Program • VOS and SOOP: sharing resources and filling gaps
27	16:30 (30 mins)	Al Wallace (DBCP Chair, CA)	Trends and feedback: Discuss ship deployment trends, including: • Changes in ships deploying drifting buoys (e.g. research versus commercial) • trends in failures on deployment • feedback from ships regarding deployment issues • feedback on deployment instructions
28	17:00 (60 mins)	**Gustavo Goni** John Wasserman Bert de Vries	Other aspects, recommendations, and conclusions • Improving coordination between US and international counterparts • Demo Dirkzwager S2R • Recommendations; • Conclusions
	18:00	Graeme Ball	**Close of Conference**

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