

WMO/EC-PORS Progress at Antarctic Treaty Consultative Committee Meetings (ATCM)

Steve P's Notes for Miro, for a Report to EC-
PORS 4

(see slides and "Notes" pages)

10 March 2013

Overview of these Notes

- Background to ATCM
- Re-engagement of WMO with ATCM
 - Hobart June 2012: ATCMXXXV
 - WMO/EC-PORS back “in the tent”
 - Brussels May 2013: ATCMXXXVI
 - WMO/EC-PORS contributing to update of ATCM measures
 - WMO/EC-PORS contributing to other ATCM “concerns”
 - WMO/EC-PORS and ATCM: future involvement

Background to ATCM

- The Antarctic Treaty Consultative Meeting (ATCM) process nurtures the Antarctic Treaty System (ATS)
 - ATCM is the ‘overarching’ body steering Antarctic matters
 - Key players are representatives of national governments
- The (now) annual meeting consists of representatives of:
 - the Consultative Parties; non-Consultative Parties; Observers; invited Experts (eg WMO)
- Useful URLs:
 - ATS**: <http://www.ats.aq/e/ats.htm>
 - ATCM: http://www.ats.aq/e/ats_meetings_atcm.htm

** See also: <http://www.antarctica.gov.au/about-us/publications/australian-antarctic-magazine/issue-22-mawson-centenary-2012/evolution-of-the-antarctic-treaty-system>

WMO and ATCM

- WMO had been an invited expert to ATCM for decades
- WMO participation lulled early 2000s as personnel changed
- WMO Congress XVI encouraged re-engagement
- And so WMO/EC-PORS was represented at ATCMXXXV, Hobart, June 2012
- Coincidentally at ATCMXXXV, Britain and Norway actively sought WMO re-engagement proposing that WMO be invited to future ATCMs to report on developments within WMO in the climate change space

WMO/EC-PORS and ATCMXXXV

Hobart, June 2012

- Main aim was to re-establish links between WMO/EC-PORS and ATCMs
 - Strategy used was to indicate how the work of WMO/ EC-PORS might assist the Parties to ATCMs. To this end three key tasks were undertaken:
 - (i) written input to an ATCM Intersessional Contact Group (ICG) examining the modern-day relevance of current ATCM “operational” recommendations;
 - (ii) an Information Paper (IP) on the work of EC-PORS was provided to/presented at ATCMXXXV;
 - (iii) Dr Steve Colwell collated information from the International Association of Antarctica Tour Operators (IAATO) relating to the met. requirements of Antarctic Tourism operators in response to an invitation from the ATCM Convenor ICG on Outstanding Questions On Antarctic Tourism.

WMO/EC-PORS at ATCM XXXVI

Brussels, May 2013 (1)

- In preparation for this meeting, EC-PORS:
 - has provided detailed written information on how the ATCM “Operational Meteorology” Measures might be modernised (see next ten slides)
 - has provided input to several Intersessional Contact groups (ICG) (see [slide 18](#))
 - may need to provide an Information Paper on developments flowing from EC-PORS 4
 - to keep ATCM informed on how WMO & ATCM might mutually benefit from the activities of each
 - May need to provide input re WMO climate change activities

WMO/EC-PORS at ATCM XXXVI

Brussels, May 2013 (2)

- ATCM had identified twenty eight (28)of its “Operational” Recommendations, including eight (8) relating to “Operational Meteorology” that it would like reviewed
 - URL to these 8 are in [slide 8](#) and [slide 9](#).
 - COMNAP led the “draft Report Language” word-smithing of the whole 28 (see EC-PORS 4 Section 3.2.2 and INF6.)
 - Eg see http://www.wmo.int/pages/prog/www/WIGOS_6_EC_PORS/EC_PORS_4.html
 - EC-PORS provided the draft report language for the meteorology (and related) category (see slides [13](#),[14](#),[15](#),[16](#),and [17](#))

WMO/EC-PORS at ATCM

Brussels, May 2013 (3)

- ATCM has identified eight (8) of its Recommendations relating to “Operational Meteorology” that it would like reviewed. Links to these are:
 - **Recommendation V-2 (Paris, 1968)**
 - MEASURES FOR IMPROVING ANTARCTIC TELECOMMUNICATIONS
 - See http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=68
 - **Recommendation VI-1 (Tokyo, 1970)**
 - ANTARCTIC TELECOMMUNICATIONS
 - http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=76
 - **Recommendation VI-3 (Tokyo, 1970)**
 - ANTARCTIC METEOROLOGY
 - http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=78
 - **Recommendation X-3 (Washington, 1979)**
 - IMPROVEMENT OF TELECOMMUNICATIONS IN ANTARCTICA AND THE COLLECTION AND DISTRIBUTION OF ANTARCTIC METEOROLOGICAL DATA
 - http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=125

WMO/EC-PORS at ATCM

Brussels, May 2013 (4)

- Continuation of Links to “Operational Meteorology “ recommendations in need of review:
 - **Recommendation XII-1 (Canberra, 1983)**
 - THE COLLECTION AND DISTRIBUTION OF ANTARCTIC METEOROLOGICAL DATA
 - http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=136
 - **Recommendation XIV-7 (Rio de Janeiro, 1987)**
 - ANTARCTIC METEOROLOGY AND TELECOMMUNICATIONS
 - http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=166
 - **Recommendation XIV-10 (Rio de Janeiro, 1987)**
 - MARINE METEOROLOGICAL AND SEA ICE INFORMATION SERVICES FOR NAVIGATION IN THE TREATY AREA OF THE SOUTHERN OCEAN
 - http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=169
 - **Recommendation XV-18 (Paris, 1989)**
 - COOPERATION IN METEOROLOGICAL AND SEA ICE INFORMATION SERVICES FOR MARITIME AND AIR NAVIGATION IN ANTARCTICA
 - http://www.ats.aq/devAS/info_measures_listitem.aspx?lang=e&id=187

WMO/EC-PORS at ATCM

Brussels, May 2013 (5)

- Attachment C to COMNAP's Working Paper (same as EC-PORS 4's Section 3.3.2 & INF.6) was written by EC-PORS
- The above Attachment C (in INF.6) contains draft language that ATCMXXXVI is invited to consider- the following table maps the out-dated recommendations to the possible new ones. Note:
 - Attachment C proposes that ATCM adopts a “**Decision**” to replace the 8 out-dated Operational Meteorology “**Recommendations**” with 4 new “**Resolutions**”
 - Attachments A and B (in INF.6) to COMNAP's Working Paper were written by others and have somewhat different style (too hard for COMNAP to harmonize?)

WMO/EC-PORS at ATCM Brussels, May 2013 (6)

Spent Recommendations on Operational Meteorology	Contemporary elements of the spent Recommendations map to the (DRAFT) Replacement Measures (Decision/Resolutions) below (ATCM may need to change the labels)	Brief Comment
<u>Recommendation V-2 (Paris, 1968)</u>	<u>Resolution R1 (2013)</u> and <u>Resolution R3 (2013)</u>	Overarching co-operation; research
<u>Recommendation VI-1 (Tokyo, 1970)</u>	Nil.	Old Recommendation strictly relates to meetings over 4 decades ago
<u>Recommendation VI-3 (Tokyo, 1970)</u>	<u>Resolution R2 (2013)</u>	AntON is the new WMO Antarctic network
<u>Recommendation X-3 (Washington, 1979)</u>	<u>Resolution R2 (2013)</u>	AntON is the new WMO Antarctic network. Need for efficiencies and effectiveness in delivering data are implicit in the new resolution.

WMO/EC-PORS at ATCM

Brussels, May 2013 (7)

mapping continued

<p><u>Recommendation XII-1 (Canberra, 1983)</u></p>	<p><u>Resolution R2 (2013)</u></p>	<p>AntON is the new WMO Antarctic network. Need for efficiencies and effectiveness in delivering data are implicit in the new resolution.</p>
<p><u>Recommendation XIV-7 (Rio de Janeiro, 1987)</u></p>	<p><u>Resolution R2 (2013)</u></p>	<p>AntON is the new WMO Antarctic network. Need for efficiencies and effectiveness in delivering data are implicit in the new resolution.</p>
<p><u>Recommendation XIV-10 (Rio de Janeiro, 1987)</u></p>	<p><u>Resolution R3 (2013)</u> and <u>Resolution R4 (2013)</u></p>	<p>WMO (EC-PORS) working with others to improve meteorological related services via, inter alia, developing the Global Integrated Polar Prediction System (GIPPS)</p>
<p><u>Recommendation XV-18 (Paris, 1989)</u></p>	<p><u>Resolution R3 (2013)</u> and <u>Resolution R4 (2013)</u></p>	<p>WMO (EC-PORS) working with others to improve meteorological related services via, inter alia, developing the Global Integrated Polar Prediction System (GIPPS)</p>

WMO/EC-PORS at ATCM

Brussels, May 2013 (8)

- **DRAFT Decision D1(2013)**

(ATCM to replace with appropriate reference label)

- **Weather-related Environmental Intelligence for the 21st Century, The Representatives, decided that:**

- Recommendation V-2 (Paris, 1968); Recommendation VI-1 (Tokyo, 1970); Recommendation VI-3 (Tokyo, 1970); Recommendation X-3 (Washington, 1979); Recommendation XII-1 (Canberra, 1983); Recommendation XIV-7 (Rio de Janeiro, 1987); Recommendation XIV-10 (Rio de Janeiro, 1987); and Recommendation XV-18 (Paris, 1989) are each declared spent;
 - Resolution R1 (2013); Resolution R2 (2013); Resolution R3 (2013) and Resolution R4 (2013) *(ATCM to replace with appropriate reference labels)* replace the now-spent Recommendations listed above in line with the following mapping (see [slide 11](#) and [slide 12](#)):

WMO/EC-PORS at ATCM

Brussels, May 2013 (9)

- **DRAFT Resolution R1 (2013)**

(ATCM to replace with appropriate reference label)

- **Mitigating risks in the Antarctic through Co-operation, Facilitation, and Exchange of Meteorological, related Oceanographic, and related Cryospheric Environment Intelligence comprising Observations (Data); Research and Services**
 - Parties encourage and facilitate the co-operative approach noted above;
 - Parties note companion Resolutions R2 (2013); R3 (2013) and R4 (2013) *(ATCM to replace with appropriate reference labels; also remove hyperlinks?)* dealing, in sequence, with Antarctic-related Observations; Research; and Services, each designed to be complementary (in other words, to be as effective and efficient as possible, Services require Research (and development), whilst Research needs to be informed and validated by Observations) in order to minimize weather-related; climate-related; and wave/sea-ice risks to personnel and infrastructure in the Antarctic;
 - Their Governments, mindful of the cost/benefit advantages of minimizing risks to Antarctic personnel and infrastructure, facilitate, where feasible, the infrastructure (including, but not limited to, telecommunications; and major civil works) to support the aims of Resolutions R2 (2013); R3 (2013) and R4 (2013)

WMO/EC-PORS at ATCM Brussels, May 2013 (10)

- **DRAFT Resolution R2 (2013)**

(ATCM to replace with appropriate reference label)

- **Mitigating risks in the Antarctic through meteorologically-related Observations (Data)**

- Parties consider the “Region 7” sublist in the WMO “Volume A” flat file of operational stations to be the definitive list of AntON stations, having, *inter alia*, WMO numbers; current positions and elevations of each site; as well as being labeled as AntON stations.
- Their Governments, mindful of the cost/benefit advantages of minimizing risks to Antarctic personnel and infrastructure, facilitate, where feasible, the infrastructure (including, but not limited to, telecommunications; and major civil works) needed to support, in particular, AntON; GWC; and IPAB

WMO/EC-PORS at ATCM Brussels, May 2013 (11)

- **DRAFT Resolution R3 (2013)**

(ATCM to replace with appropriate reference label)

- **Mitigating risks in the Antarctic through meteorologically-related Research**

- Parties support, in principle at least, the underpinning of Antarctic-related meteorological and marine (wave/sea-ice) forecasting services over a range of time scales, through robust Antarctic-related research;
- Their Governments, mindful of the cost/benefit advantages of minimizing risks to Antarctic personnel and infrastructure, facilitate, where feasible, the infrastructure (including, but not limited to, telecommunications; and major civil works) needed to support Antarctic-related meteorological and marine (wave/sea-ice) research.

WMO/EC-PORS at ATCM Brussels, May 2013 (13)

- **DRAFT Resolution R4 (2013)**

(ATCM to replace with appropriate reference label)

- **Mitigating risks in the Antarctic through meteorologically-related Services**

- Parties support WMO's initiatives such as GIPPS underpinning Antarctic-related meteorological and marine (wave/sea-ice) forecasting services over a range of time scales, through robust Antarctic-related research and development;
- Parties support and encourage WMO in developing its Service strategy in wide consultation with other relevant Service developers and with Service users;
- Their Governments, mindful of the cost/benefit advantages of minimizing risks to Antarctic personnel and infrastructure, facilitate, where feasible, the infrastructure (including, but not limited to, telecommunications; and major civil works) needed to support Antarctic-related meteorological and marine (wave/sea-ice) Services.

WMO/EC-PORS at ATCM Brussels, May 2013 (14)

- EC-PORS input to Intersessional Contact Group (ICG) for (Username and password from Miro):
 - Information Exchange re Antarctic Tourism
 - <http://forum.ats.aq/atsforum/viewtopic.php?f=38&t=103>
 - Increased co-operation
 - <http://forum.ats.aq/atsforum/viewforum.php?f=41>
 - Special Working Group on Search and Rescue
 - <http://forum.ats.aq/atsforum/viewtopic.php?f=37&t=101>

WMO/EC-PORS and ATCM – going forward

- It is clear that WMO Congress and ATCM desire continued joint co-operation/involvement
- And so EC-PORS should continue to provide its expertise to, and seek feedback/guidance (eg on services) from ATCM