

WORLD METEOROLOGICAL ORGANIZATION

CBS/OPAG-IOS/IPET-OSDE1 / Doc. 5
(25.02.2014)

COMMISSION FOR BASIC SYSTEMS
OPEN PROGRAMME AREA GROUP ON
INTEGRATED OBSERVING SYSTEMS

ITEM: 5

**INTER PROGRAMME EXPERT TEAM ON
OBSERVING SYSTEM DESIGN AND EVOLUTION
(IPET-OSDE)
*First Session***

Original: ENGLISH

GENEVA, SWITZERLAND, 31 MARCH – 3 APRIL 2014

REVIEW OF ACTION ITEMS FROM ET-EGOS-7

(Submitted by the Secretariat)

SUMMARY AND PURPOSE OF DOCUMENT

This document provides status of individual actions agreed by the ET-EGOS-7, Geneva, Switzerland, 7-11 May 2012, as well as pending actions from the previous ET-EGOS session.

ACTION PROPOSED

The Meeting is invited to update further the Action Sheets and responsible persons will be invited to provide more detailed explanation on individual actions. Information provided should be taken into account when discussion relevant agenda items.

-
- Appendix:**
- A.** Review of Action Items from ET-EGOS-7 and previous ET-EGOS meetings
 - B.** Status of Actions on the Outstanding issues concerning the RRR Database

DISCUSSION

1. At its seventh session (ET-EGOS-7, Geneva, Switzerland, 7-11 May 2012), the former CBS Expert Team on the Evolution of Global Observing Systems (ET-EGOS) agreed on actions resulting from the previous ET-EGOS sessions as well as those from ET-EGOS-7. These actions were structured as follows:

- I. RRR Process – general
- II. RRR Process – User Requirements (URs) and Statements of Guidance (SoGs)
- III. RRR Process – observing system capabilities
- IV. Impact Studies, OSEs, OSSEs
- V. Preparation of the new EGOS-IP, and follow up
- VI. Other issues

2. The WMO Secretariat converted agreed actions into the ET-EGOS-7 Action Sheets and requested that the persons responsible regularly update the status of relevant actions. The last update was done in February 2014 (see attached Appendix A).

3. The status of actions on the outstanding issues concerning the RRR Database is provided in Appendix B. These will be discussed under agenda item 7.1.1.

4. The Meeting is invited to update further the actions, close them or forward them to the actions resulting from the IPET-OSDE-1, as appropriate.

APPENDIX A

REVIEW OF ACTION ITEMS FROM ET-EGOS-7 AND PREVIOUS ET-EGOS MEETINGS

Updated by J Eyre, 28 Nov 2012
 Then by the Secretariat, 10 Dec. 2012 – 10 Jan. 2013 with feedback from contributors
 Then by J Eyre, 10 Jan 2013
 Then by J Eyre, 15 Apr 2013
 Then by Secretariat, 15 April 2013
 Then by J Eyre, 16 April 2013
 Then by Secretariat per further feedback from the Team, June 2013 – Feb. 2014

ACTION SHEET RESULTING FROM ET-EGOS-7¹

Note: See also Table 1 of Annex IX for database related action items.

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
				I. RRR PROCESS – general			
				II. RRR process – User Requirements (URs) and Statements of Guidance (SoGs)			
				1) General actions			
1	E6/8.1.11	(a)	2	Review URs in database; address the open issues (see list of actions in Annex VIII of ET-EGOS-6 report, and Annex IX of ET-EGOS-7 report); report back to Chair	IPET-OSDE & PoCs	end 2012 where possible	Sept. 2013: Major changes implemented: <ul style="list-style-type: none"> • Layers now refers to the vertical dimension only • “Horizontal coverage” introduced (“global”, “coastal areas”, “global land”, “global ocean”). Also makes it possible to define regional, sub-regional or point requirements as

1 Pending action items from ET-EGOS-6, and previous ET-EGOS Session have been merged in this table. ET-EGOS-7 action are highlighted in blue.

2 Ref: reference to paragraph number of ET-EGOS meeting reports as appropriate (e.g. E6/8.1.11 = Para 8.1.11 of ET-EGOS-6 Final Report).

3 TOR: reference to the ET-EGOS Terms of Reference to which the action item applies

4 WP: reference to the item number of the CBS work programme for ET-EGOS to which this action item applies.

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							<p>needed.</p> <ul style="list-style-type: none"> • Stability added (optional field) • Possibility to define a requirement over multiple layers • Focal points can be directly contacted if they leave an email address (incl. spam protection) • Simplified workflow for Focal points in filling out the necessary fields, additional help and explanations • User manuals updated <p>19/8/2013: Anthony Rea confirmed value of OSCAR for obs. Network planning of BOM 31/5/2013: comments from J. Lawrimore 30/5/2013: comments from S. Klink (timeliness vs. availability) 29/5/2013: No comments from F. Grooters 24/5/2013: comments from S. Boukabara 24/5/2013: comments from R. Munro 22/5/2013: Y. Sato reviewed</p>
2	E5/8.1.8	(a)	2	Update current version of UR database, which is on-line on the web	Secretariat	ongoing	<p>Ongoing Major software update implemented in late 2013 per guidance from ET-EGOS-7 Partial updates communicated by WCRP on 20/12/2012</p>
3	E4	(c)	4	Review all revised SoG	Chair	ongoing	<p>June 2013: Template for SoGs prepared by Secretariat in</p>

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							consultation with IPET-OSDE Chair
4	E4	(c)	4	Refer revised SoGs to appropriate “owners” for endorsement	Chair	ongoing	<p>Ownership identified for most applications areas. Under discussion with GDPFS for the remaining 4 AAs (GNWP, HRNWP, NVSRF, SIAF).</p> <p>29/1/2013: Cross-secretariat communication (i) to remind GDPFS that we have been looking after these AAs on their behalf, (ii) to invite them formally to confirm that they are happy with the process, (iii) to invite them to feed to us (preferably via the nominated PoC) any comments they have on the URs or the SoGs.</p> <p>8/2/2013: Feedback from GDPFS: Happy with process. New submitted SoGs for GNWP, HRNWP, NVSRF, and SIAF should be circulated to relevant DPFS Expert Teams for review & spotting missing gaps.</p>
5	E7/8.2.13	(a)	2	Refer to ICT-IOS to concur with proposed RRR database developments, and promote resource mobilization for required developments and future maintenance	Chair	June 2012	Done.
6	E7/8.2.15	(b)	4	Review and document better the way the RRR process is described in existing documentation (i.e. website, GOS manual & guide) to reflect the reality of how the RRR is actually performed, and to show more clearly how key stakeholders can submit their views on requirements and priorities in the various WMO Application Areas	Chair	end 2012	Oct12: review completed – http://www.wmo.int/egos – changes proposed and implemented for EGOS related web-pages, including document describing RRR , reference to the new EGOS-IP in 4 languages, and new SoGs.

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							Above materials have been considered for the new WIGOS Regulatory Material. Work remains to be done for updating the Manual & Guide on the GOS to be consistent with the updated information on the website.
7	E7/8.3.2.53	(c)	4	Write to the PoCs and thank them for their contributions	Chair	ASAP	Done. 27 July 2012
				2) Global NWP			
8	E5/8.3.2.4	(c)	4	Consider comments by the OceanOBS'09 review team and propose a response	E Andersson	June 2012	Not done
9	E7/8.3.2.4	(c)	4	Update SoG for GNWP with latest information from THORPEX on targeting (e.g. for tropical regions)	E Andersson	June 2012	
				3) High Resolution NWP			
10	E7/8.3.2.5	(c)	4	Update SoG as necessary	T Montmerle	Ongoing	SoG checked (201304); no update necessary
				4) Nowcasting and very short range forecasting			
11	E7/2.4 E7/8.3.2.13	(c)	4	Consult with Secretariat (GDPFS) with a view to identifying a new PoC for NVSRF, and then provide him/her with guidance as appropriate	Chair	July 2012	Nov12: New PoC confirmed – P.Ambrosetti. Some guidance provided.
12	E7/8.3.2.13			Merge URs for Synoptic Meteorology into those for NVSRF in database	New PoC	April 2013	UR merged 201304 and revised (draft)
13	E6/8.3.2.11	(c)	4	Review and revise SoG for NVSRF	New PoC	April 2013	29Apr13: new draft version provided 12Apr13: comments provided by

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							Chair 21Mar13: Revised draft provided
14	E6/ANX-VIII	(c)	4	Confirm that it is suitable to derive atmospheric stability index from the requirement on "atmospheric temperature" and on "specific humidity", with coarse vertical resolution, and indicate the appropriate layers and vertical resolution.	PoC for NVSRF	End 2012 April 2013	Confirmed: the UR in OSCAR have been edited accordingly.
				5) Seasonal to inter-annual forecasting			
15		(c)	4	Update SoG as necessary	L Ferranti	Ongoing	
				6) Aeronautical Meteorology			
16	E6/8.3.2.6 E5/8.3.2.16-19 E5/8.3.1.2 (6), 8.3.2.13	(c)	4	Further update Aeronautical Meteorology SoG to take into account issues identified by ET-EGOS-7, and consistency with new URs	J vd Meulen	July 2012	
17	E7/8.3.2.8	(c)	4	Provide feedback to PoC regarding SoG for Aeronautical Meteorology	IPET-OSDE	end 2012	12/11/2013: comment from M. Ondras: issue to be discussed during GCW Advisory meeting in Jan. 2014. 04/06/2013: comments from S. Klink with proposal for updated SoG 29/5/2013: comments from F. Grooters 24/5/2013: comments from S. Boukabara 22/5/2013: Y. Sato provided comments (suggested using "Boundary layer height" or "Boundary layer level" terminology) 22/5/2013: T. Montmerle provided comments (on "3D wind fields", "Surface and near surface wind", and "local airport applications")

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							23/5/2013: R. Munro provided comments 01/02/2013: Chair feedback: Some information provided, but more needed - to check status of volcanic ash in various WMO documentation and identify where updating will be needed. 29-11-2012: Chair provided feedback,
18	E7/8.3.2.9	(c)	4	Check status of volcanic ash in various WMO documentation and identify whether updating will be needed	PoC for Aeromet & Chair	end 2012	21/1/2013: J. vd Meulen contacted for providing list of the other documents in which requirements for observations of volcanic ash are addressed.
7) Atmospheric Chemistry							
19	E6/8.3.2.16	(c)	4	Liaise with GAW community with a view to updating further the SoG, taking into account the ET-EGOS-7 comments and the conclusions from the breakout group.	O Tarasova	end 2013	Consultation made; roadmap proposed at ET-EGOS-7
20	E6/Anx-13	(h)	6	Establish ad hoc group on the review of satellite requirements for Atmospheric Composition; invite member from ET-SAT	L Jalkanen	end 2012	
8) Ocean Applications							
21	E6/1.3.2, 8.1.11, 8.3.2.20	(a) (c)	4	Group sub-applications of Ocean Applications area into a smaller number. (see the 4 actions from Annex VIII under the Ocean Applications section)	A Mafimbo	end 2012	Done
22	E6/ANX-VIII	(a)	2	Reformulate URs using, as far as possible, agreed variable (see report of ET-EGOS-6, Annex VIII); definitions of some variables that are currently undefined to be provided by JCOMM	A Mafimbo	end 2012	Done
23	E6/ANX-	(a)	2	Consult PoC (Ali Mafimbo) with a proposal to	Secretariat	end 2012	

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
	VIII			identify the smallest number of uses that would need to be treated as different applications. The PoC should then coordinate with JCOMM Expert Teams, and provide feedback. The distinction between <i>coast</i> and <i>open ocean</i> should be addressed through the concept of "layer" (possibly renamed) rather than by defining a specific application. Applications covered by other application areas should be removed. Applications such as "modelling" should be removed or more appropriate application to which the "modelling" is contributing should be proposed.			
24	E7/8.3.2.25 E6/8.3.2.18	(c)	4	Provide a new version of SoG for Ocean Applications, to take into account the remaining issues raised by the ET-EGOS as well as guidance from the fourth Session of JCOMM	A. Mafimbe G. Liu	Sept 2012	
25	E7/8.3.2.26	(c)	4	Review new SoG for Ocean Applications once available, and provide feedback to the PoC	Chair	end 2012	
				9) Agricultural Meteorology			
26	E5/8.3.1.2 (9)	(a)	2	Complete user requirements	R Stefanski	end 2012	March 2011: URs also provided to the WMO Secretariat for the DB in late March 2011. Comments provided by Chair to the PoC in late March 2011. Open for completing the URs
27	E7/8.3.2.32	(f)	7	Review latest draft of EGOS-IP as soon as possible, and propose changes if required	PoC for Agromet	ASAP	EGOS-IP adopted; n/a anymore.
				10) Hydrology			
28	E6/8.3.2.28 E5/8.3.1.2 (10)	(c)	4	Review further the SoG for Hydrology, taking into account the issues identified by ET-EGOS-6; prepare proposal for revised URs	W Grabs B Stewart	TBD according to when AWG meets	

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
				11) Climate monitoring (GCOS)			
				12) Climate Applications (other aspects – CCI)			
29	E7/8.3.2.45 E6/8.3.2.44 E5/8.3.2.26-27	(c)	4	Update further the SoG for Climate Applications (other aspects, CCI) to take into account the issues identified by ET-EGOS-7.	W Wright	end 2012	The GFCS-IP, drafted with wide community review, was approved by the WMO Extraordinary Congress in 2012.
30	E7/8.3.2.45	(a)	2	Provide quantitative URs for the database; update further the SoG consistently with the URs	W Wright	end 2012	
				13) GTOS			
31	E7/8.3.2.49	(a) (c)	2, 4	Write to PoC for GTOS, and remind him about the issues that had been raised by ET-EGOS-6	Secretariat	Sept 2012	Situation with regard to GTOS evolved. The Chairman of GTOS Steering Committee resigned in March 2013, and the Director John Latham is not responsible anymore for GTOS since 2012. WMO is trying to resolve this issue with FAO, discussing new responsibilities and resources with FAO management. GCOS took over full responsibility for the TOPC. Point of contact is D/OBS of WMO (W. Zhang)
32	E5/8.2.4.2	(a) (c)	2, 4	Provide user requirements for the WMO RRR Database; provide SoG	J Latham	end 2012	GCOS Secretariat proposed Dr John Latham, Programme Director, Global Terrestrial observing System (GTOS) Ongoing SoG yet to be drafted Contact to be re-established
				14) Space weather			
33	E5/3.6, 8.2.4.3	(a)	2	Review SoG for Space Weather and provide feedback to PoC	Chair	June 2012	Done.

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
				15) Global Cryosphere Watch			
34	E6/8.3.3.4	(a)	2	Consult GCW community in a view to checking terminology; either remove obsolete requirements from the database or update them.	Secretariat	end 2012	This was addressed during the 1 st GCW Implementation meeting (GE, 21-24.11.2011) with subsequent follow-up
35	E7/6.1.5	(a)	2	Review how requirements for cryospheric variables and observations in polar regions are taken into account in the UR database and in their SoGs	All PoCs	end 2012	12/11/2013: Comment from M. Ondras: The GCW CryoNet Team is dealing with requirements but this may take substantially more time than originally expected. We may have something mid 2014 22/5/2013: T. Montmerle provided comments (some requirements already taken into account in SoG and OSCAR for HRNWP; no update suggested)
36	E7/6.1.5	(a)	2	Investigate adding a new Cryosphere "Theme" in the database to facilitate management of the URS for cryospheric variables in the database	Secretariat	end 2012	12/11/2013: Comment from M. Ondras: Inclusion of a new Cryosphere "Theme" in the RRR database would certainly improve the accessibility of cryo. requirements in a consistent way
37	E7/6.1.6	(c) (d)	4	Identify key GCW documents of interest to ET-EGOS/IPET-OSDE (e.g. IGOS Cryosphere Theme document, Implementation Plan, Regional groups documents)	GCW PoC	ASAP	21/1/2013: Barry Goodison asked for guidance: (i) the Cryosphere theme report is the essential document to consider, (ii) this document has not been updated since it was edited in 2007 but is still probably up to date, and (iii) he will contact Jeff Key for further guidance
38	E7/6.1.7	(c) (d)	4	Review the IGOS Cryosphere Theme and other related documents	IPET-OSDE	end 2013	Pending outcome of action 37 18/12/2013: Comments from J. Eyre to Secretariat. Input proposed for GCW advisory meeting in Jan. 2014: Cryosphere expert(s) need to (i) identify the most relevant AAs for

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							<p>cryosphere applications, and review the UR of the OSCAR accordingly; (ii) indicate whether an AA is missing; and (iii) provide information on cryosphere observing systems capabilities.</p> <p>27/6/2013: J. Lawrimore compared CT doc. with GCOS-138. In most areas the GCOS document sufficiently covers the most pressing issues related to cryospheric observations. However, he found two areas that may have been overlooked by GCOS: (i) coverage of lake and river ice, and (ii) surface temperature.</p> <p>7/6/2013: Y. Sato review document.</p> <p>31/5/2013: J. Lawrimore reviewed CT doc. Offered to help construct a snow measurement databank for historical and current observations as was done for air temperature with some success</p> <p>24/5/2013: comments from S. Boukabara</p> <p>23/5/2013: R. Munro has no comment (no overlap between AC & cryosphere variables).</p>
39	E7/6.1.8	(a)	2	Review current definitions of the cryospheric variables in the RRR Database	GCW PoC	end 2013	<p>12/11/2013: Comment from M. Ondras: The GCW Terminology Group should develop a GCW glossary. This Group has not yet started and we expect this group to be activated in 2014. Only after the glossary is developed, the review current definitions of the cryospheric variables in the RRR Database could</p>

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							be done.
				16) Global Framework for Climate Services			
40	E7/6.3.9 E7/8.1.5			Review GFCS “Observations and Monitoring” and “Research and Modelling Component” annexes to the GFCS-IP and provide feedback to Chair (see website ⁵)	IPET-OSDE	end 2012	Oct12: review provided by Chair GFCS review process completed. Not further review required at this point.
				17) Global Ocean Observing System (GOOS)			
41	E6/8.1.12 E6/ANX-VIII	(a)	2	Remind GOOS Project Office about status of GOOS user requirements in the RRR Database; ask whether there are GOOS requirements beyond the Ocean Applications requirements from JCOMM. (Action to be done once the Ocean Applications requirements have been clarified).	Secretariat	Sept 2012	IOC confirmed its intention to update the GOOS requirements
				III. RRR PROCESS – observing system capabilities			
42	E4	(b)	3	Update of Observing System Capabilities by space agencies – seek review by ET-SAT, ET-SUP and IPET-OSDE	J.Lafeuille	Ongoing	On-going, OSCAR/Space is regularly updated based on space agencies’ reports to ET-SAT and CGMS, and bilateral contacts. The performance assessments requires further involvement of thematic application expert groups.
43	E7/8.2.16 E5/6.9.5	(b)	3	Discuss with Chair ET-SBR SO the status of the weather radar database (a result from the questionnaires from ET-SBR SO)	Chair	July 2012	Done. Questionnaire was distributed; info was collected Web-based Database is being designed by Turkey ET-SBR SO will review the database at its next meeting SBR SO Metadata DB to feed into the RRR Database; IPET-OSDE to review
44	E4	(b)	3	Pursue updates of observing capability database	R. Stringer in	Ongoing	

5 http://www.wmo.int/pages/gfcs/ip_en.php

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
				for remaining elements with 1st priority on WIN PROF, RADARs, and AMDAR.	collab. with ICT-IOS ETs, ET-AIR, ET-SBR SO		
45		(a)	2	Propose some explanatory text on “uncertainty” and related terms, to be made accessible though the on line database	J. Eyre in consultation with J. vd Meulen	End 2012	Apr13: Some discussion re SoG-Aero. Latest email 29Nov12.
				IV. IMPACT STUDIES, OSEs, OSSEs			
46	E7/9.3.2	(e)	5	Bring any possible urgent matter arising from 5 th WMO Workshop to ICT-IOS-7, on behalf of the ET-EGOS/IPET-OSDE	E Andersson	June 2012	Done
				V. PREPARATION OF THE NEW EGOS-IP, AND FOLLOW UP			
47	E7/10.2.3 .5	(c) (d) (f)	7	Consolidate draft EGOS-IP (ET-EGOS-7 version), and send it to Team members for review	Secretariat	17 May 2012	Done.
48	E7/10.2.3 .5	(c) (d) (f)	7	Review draft EGOS-IP (ET-EGOS-7 version)	Consultant	10 June 2012	Done.
49	E7/10.2.3 .5	(c) (d) (f)	7	Take comments from Team, consultant and ICT-IOS-7 into account for producing the EGOS-IP version that will be submitted to CBS XV	Chair	30 June 2012	Done.
50	E7/10.2.3 .4	(c) (d) (f)	7	Lead development of a communication strategy on EGOS-IP (see Annex XI)	R Stringer & Chair	Dec 2012	Template prepared at ET-EGOS-7. Coordination required with IPET-WIFI. EGOS-IP translated in 4 languages. Discussions underway for tx in Russian & Chinese as well. Effective communication pending EC-65's approval of EGOS-IP in mid-2013.
51	E7/Anx-XI	(c) (d) (f)	7	Propose method for stakeholder analysis for communication strategy on the EGOS-IP (see Annex XI)	R Stringer	July 2012	
52	E7/Anx-XI	(c) (d) (f)	7	Analyse progress against old EGOS-IP	J Eyre	Nov. 2012	Mar13: Analysis completed. 17/1/2013: JE consulted some

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
							experts on specific actions (S15, S16, S17, G2, G21, T1, G22). Oct12: Draft analysis of progress prepared.
53	E7/Anx-XI	(c) (d) (f)	7	Agree relationship between EGOS-IP and WIGOS-IP communication plans	Secretariat	July 2012	
54	E7/Anx-XI	(c) (d) (f)	7	Agree input on EGOS-IP and its communication plan to TECO-CBS-Jakarta - discuss at ICT-IOS-7	Chair	June 2012	Done.
				VI. OTHER ISSUES			
55	E6/6.3.4	(c) (d) (f)	1,5,6	Continue dialogue with AMMA and seek action and feedback on identified issues.	Secretariat	end 2013	Some interactions by ET-EGOS Chair with AMMA.
56	E6/10.4.8	(c) (d) (f) (g)	7	Initiate and maintain a document to keep track of additions to the Vision for the GOS in 2025, and provide references to the source of the actions proposed in the EGOS-IP (the document shall be based on content of the existing web page, while keeping the web page consistent with the document)	Secretariat	Ongoing	Underway - webpage to list proposals regarding gaps in the Vision exists. ICT/IOS to then consider a process in this regard. Item added for IPET-OSDE-1 in this regard.
57	E5/11.3	(c) (d)	6	Coordinate responses to any issue regarding GRUAN implementation with regard to CBS	Secretariat with L P Riishojgaard and J Eyre	Ongoing	Chair is participating in the organising committee for the GRUAN-GSICS-GNSSRO WIGOS Workshop, 6-8 May 2014.
58	E7/7.9	(h)	1, 6	Refer the renaming of the WIGOS Implementation Plan into WIGOS framework Implementation Plan (WIP) to the ICT-IOS	Chair	June 2012	Done.
59	E7/10.1.1 .9	(g)	6, 7	Circulate the ET-EGOS report on feedback from NFPs (e.g. this ET-EGOS-7 doc no. 10.1.1) to the NFPs	Secretariat	Sept 2012 and ongoing	Not done
60	E7/10.1.1 .10	(g)	6, 7	Revise the template for NFP reports	R Stringer	end 2012	Template proposed by secretariat (simple table of the EGOS-IP actions, with a column for the national feedback)

No.	Ref ²	TOR ₃	WP ⁴	Action	By	Deadline	Comment/Status
61	E7/10.1.1 .10	(g)	6, 7	Request NFPs to provide feedback for 2012 on the basis of the new EGOS-IP	Secretariat	Jan 2013	Not done in 2012. Feedback requested for 2013 in late February 2014.
62	E7/10.1.1 0	(g)	6, 7	Compile synthesis of 2012 national reports	R Stringer	June 2013	No feedback received
63	E7/10.1.1 .10	(g)	6, 7	Reply to the NFPs who raised some questions for clarification on some of the EGOS-IP actions, and provide them with further clarification and guidance	R Stringer	ASAP	
64	E7/10.1.1 .10	(g)	6, 7	Give ASECNA the opportunity to provide feedback on the implementation of the EGOS-IP in RA-I	Secretariat & ASECNA	Jan 2013	
65	E7/11.1.2	(h)	6	Refer to ICT-IOS and propose a mechanism such as an OPAG IOS Expert Team takes responsibility for implementation of WMO QMF across WMO component observing systems	Chair	June 2012	Done.
66	E7/11.1.3	(h)	1, 6	Request ICT-IOS note the issue of monitoring observations quality, and propose the best distribution of responsibilities in the WIGOS framework, while stressing that strong linkages between OPAG-ISS, OPAG-DPFS and OPAG-IOS (for RRR) should be promoted	Chair	June 2012	Done.
67	E7/12.4	(h)	1, 6	Request ICT-IOS to address the issue of daily climatological observations	Chair	June 2012	Done.
68	E7/2.6	(h)	1, 6	Bring issue of identifying a CBS representative to contribute to AOPC WG-ARO (WG-GRUAN) to attention of ICT-IOS	Chair	June 2012	Done.

APPENDIX B

**STATUS OF ACTIONS ON THE
OUTSTANDING ISSUES CONCERNING THE RRR DATABASE
(From ET-EGOS-7, Geneva, 9-10 May 2012)**

Table 1: Summary list of actions

No.	Ref. ⁶	TOR ⁷	WP ⁸	Action	By	Deadline	Status
1	E7/Anx-IX/A1	(a)	2	Indicate in the definitions section of the database that measurement uncertainty is reported at 68% confidence interval (1 sigma)	Secretariat / N Hettich	June 2012	Done
2	E7/Anx-IX/A 2	(a)	2	Check that uncertainty requirements are expressed with this understanding	All PoCs	End 2012	Reminder sent 25/2/2014
3	E7/Anx-IX/A 3	(a)	2	Investigate whether it is appropriate to represent their application in several sub-applications	PoCs	June 2013	Reminder sent 25/2/2014
4	E7/Anx-IX/A 4	(a)	2	Investigate further the feasibility of the options to represent cross-cutting applications (e.g. cryosphere) in the database	Secretariat / N Hettich	End 2012	Done (cross cutting themes introduced; can be attached to variables)
5	E7/Anx-IX/A 5	(a)	2	Clarify whether Atmospheric Chemistry requirements for climate are managed within the GAW and could be recorded as a sub-application "Climate" of Atmospheric Chemistry, and to update DB accordingly	Secretariat (D/GCOS, C/ARE, C/SBOS), including GCOS, GAW and SAT	Sept 2012	Reminder sent 25/2/2014
6	E7/Anx-IX/A 6	(a)	2	Propose for "Ocean applications" a set of sub-applications with homogeneous requirements.	PoC for Ocean applications	End 2012	Reminder sent 25/2/2014
7	E7/Anx-IX/A 7	(a)	2	Check with relevant PoCs whether "PBL/FT/UTLS/MST" would be agreeable to replace "LT/HT/LS" without changing the highest layer (HS&MS)	Secretariat / J Lafeuille	Sept. 2012	One requirement can now be applied to more than one layer, which

6 Ref: reference to paragraph number of ET-EGOS meeting reports as appropriate (e.g. E6/8.1.11 = Para 8.1.11 of ET-EGOS-6 Final Report).

7 TOR: reference to the ET-EGOS Terms of Reference to which the action item applies

8 WP: reference to the item number of the CBS work programme for ET-EGOS to which this action item applies.

No.	Ref. ⁶	TOR ⁷	WP ⁸	Action	By	Deadline	Status
							makes this action less necessary. Reminder sent 25/2/2014
8	E7/Anx-IX/A 8	(a)	2	Implement an additional field in the requirements database in order to specify the required "coverage" for each requirement, with a drop-down list (e.g. global by default, 1000x1000 km, 100x100 km, 10x10 km, less than 10x10 km, point)	Secretariat / N Hettich	Sept. 2012	Done (concept of layer clarified with (i) layers i.e. vertical only, and (ii) coverage i.e. horizontal only)
9	E7/Anx-IX/A 9	(a)	2	Investigate feasibility of representing regionally dependent requirements in the requirements database	Secretariat / N Hettich	Sept. 2012	Done (using concept of coverage)
10	E7/Anx-IX/A 10	(a) (b)	2, 3	Investigate further the feasibility of representing regional distribution of surface-based capabilities	Secretariat / E Charpentier	Sept. 2012	Underway as part of OSCAR/Surface dev.
11	E7/Anx-IX/A 11	(a)	2	Investigate existing definitions for gustiness and 3s peak gust; check the RRR database list; make proposal	J vd Meulen	Sept. 2012	Done (relevant variables redefined in the DB according to the CIMO Guide)
12	E7/Anx-IX/A 12	(a)	2	Provide a list of mole fraction variables to J Lafeuille	O Tarasova	June 2012	Done (DB updated)
13	E7/Anx-IX/A 13	(a)	2	Include contact box to the PoCs in the UR database	Secretariat / N Hettich	June 2012	Done
14	E7/Anx-IX/A 14	(a) (b)	2, 3	Write a Quality Management document, including description of processes for the management and operations of the operational parts of the database	Secretariat	June 2013	Done (see Appendix of IPET-OSDE1 doc 7.1)
15	E7/Anx-IX/A 15	(a)	2	Request ICG-WIGOS TT on Metadata to address the issues of observation metadata collection, in consultation with ET-AWS, ET-SBRISO, ET-AIR, JCOMM, CAS, CHy, GCOS, in order to collect the set of metadata required to derive observing systems capabilities (e.g. using WMO No. 9 Vol. A for the surface-based meteorological stations)	OPAG-IOS Chair	June 2012	Underway
16	E7/Anx-IX/A 16	(a)	2	Investigate how to interface with existing metadata databases (e.g. GAWSIS, CCI, ET-AWS) to be made available (e.g. web service allowing to access stations individual reports)	Secretariat / E Charpentier	June 2013	Considered and underway as part of OSCAR/Surface dev.
17	E7/Anx-	(a)	2	Investigate feasibility for implementing a platform	Secretariat / E	End 2012	Done (WIGOS)

No.	Ref.⁶	TOR⁷	WP⁸	Action	By	Deadline	Status
	IX/A 17			identification scheme for the database, based on existing schemes, with prefix to provide meta-scheme that guarantees uniqueness across all networks	Charpentier		identifiers proposal to be submitted to CBS)
18	E7/Anx-IX/A 17	(a) (b)	2, 3	Request ICG-WIGOS to take into account existing databases, and building upon them, as well as existing plans for the RRR database when developing the WIGOS Operational Resource	OPAG IOS Chair	June 2012	Done
19	E7/Anx-IX/A 19	(a) (b)	2, 3	Raise CBS's attention on the need to secure resources for technical development and maintenance of the RRR Database as a key element of the WIGOS implementation;	OPAG IOS Chair	June 2012	Done (Rec. 1 / CBS-15) In addition: (i) Partnership with MeteoSwiss, and TF established for voluntary contribs. (ii) Resources made available at the Secr. For content management
20	E7/Anx-IX/A 20	(a) (b)	2, 3	Raise CBS's attention on the need to secure resources (e.g. WMO/in-house or consultant) and for an active involvement of the expert community, and Members with regard to the management of the RRR database content;	OPAG IOS Chair	June 2012	Done (Rec. 1 / CBS-15)
21	E7/Anx-IX/A 21	(a) (b)	2, 3	Consider moving the RRR Database to a dedicated server (together with the WIGOS Operational Resource), with a dedicated wmo.int sub-domain	Secretariat / N Hettich	June 2012	Done (existing application since 2013), and considered as part of OSCAR partnership with MeteoSwiss
22	E7/Anx-IX/A 22	(b)	3	Consider adding a platform operational status field in the capabilities part of the RRR database (operational/planned/silent...)	Secretariat / E Charpentier	Sept 2012	(i) Done in existing OSCAR/Space for Satellites, and planned for future version for Satellite instruments. (ii) Considered and underway as part of OSCAR/Surface

No.	Ref. ⁶	TOR ⁷	WP ⁸	Action	By	Deadline	Status
							dev.
23	E7/Anx-IX/A 23	(b)	3	Give high priority to adding a functionality in the technical specifications of the capabilities part of the RRR Database with a view to record the historical status of the stations	Secretariat / E Charpentier	Sept 2012	(i) Investigations needed for OSCAR/Space. (ii) Considered and underway as part of OSCAR/Surface dev.
24	E7/Anx-IX/A 24	(a) (b)	2, 3	Prepare a short document describing the rationale for maintaining RRR Database content by PoCs, and reminding them about the availability of the RRR database guide, and their usernames/passwords. PoCs should also be reminded that (i) some of the breakthrough values in the UR database have been entered as place-holders, and should be reviewed and corrected; and (ii) the source field should be filled-in properly (guidance to be provided in this regard; especially explanations should be provided on the context where the information has been obtained)	Secretariat / J Lafeuille & E Charpentier	Sept 2012	Almost done
25	E7/8.1.4 E7/Anx-IX/A 25	(a)	2	Request PoCs to review UR where there has been change of units or variables; and alerting them that if no feedback is received within 3 months, then the corresponding records will be emptied.	Secretariat / J Lafeuille	Sept 2012	Reminder sent 25/2/2014
26	E7/8.2.6 E7/Anx-IX/A 26	(b)	3	Invite ET-EGOS members, PoCs (national and Application Area) to beta-test the SOCRAT tool ⁹ and provide feedback.	Secretariat / N Hettich	Sept 2012	Done

9 www.wmo-sat.info/db2