



International Civil Aviation Organization

**THIRTEENTH MEETING OF THE ASIA/PACIFIC REGIONAL OPMET  
BULLETIN EXCHANGE WORKING GROUP (ROBEX WG/13)**

Seoul, Republic of Korea, 16 – 18 March 2015

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**Agenda Item 5:** Guidance material

**UPDATES TO ROBEX HANDBOOK AND ICD**

(Prepared by the Secretariat)

**SUMMARY**

This flimsy provides details of additional updates required to the ROBEX Handbook and/or ICD provided by States present during the ROBEX WG/13 meeting.

**1. INTRODUCTION**

1.1 The ROBEX WG/13 meeting reviewed a draft amendment to the ROBEX Handbook (WP/15) and draft updates to the APAC Region OPMET Data Banks Interface Control Document (ICD) (WP/16), which were intended for publishing soon after the meeting's review to realign the guidance material with current regional requirements. This flimsy provides details of additional updates to the ROBEX Handbook and/or ICD provided by the ROBEX WG/13 meeting.

**2. DISCUSSION**

2.1 On further discussion of the draft amendments to the ROBEX Handbook and the ICD (in WP/15 and WP/16) the meeting provided several additional necessary updates to bring the documents into alignment and to reflect current regional requirements. The additional updates proposed by the meeting, which have also been included in the revised attachments to WP/15 and WP/16, are provided in **the Attachment** to this flimsy.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to note the information provided in this flimsy.

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ATTACHMENT

**Table 1:** Additional amendments to the ROBEX Handbook provided by ROBEX WG/13

Section/page	Amendment	Notes/reasoning
Page 2, par. 2.4.1	“... In order to achieve these tasks, the ROBEX implementation status and planning is part of the agenda of the CNS/MET <b>and/or MET</b> sub-groups of the two PIRGs”.	Reflect current framework of sub groups under APANPIRG i.e., MET SG)
Page 4, par. 3.1.1	“...Note that IATA TAF requirements in the ASIA/PAC region are for TAF validity of either 24 or 30 hours. Some States issue 12- and 18-hour TAF which don’t meet requirements, but are nevertheless classified as FT for the WMO data type designator. <b>The ASIA/PAC Regional Air Navigation Plan does not include any requirement for 9-hour validity aerodrome forecasts in TAF code (9H) classified as FC for the WMO data type designator</b> ”.	Clarify that there are no requirements for 9-hour TAF in ASIA/PAC.
Page 5, par. 3.3.2.2	“Inter-regional OPMET exchange via IROGs is carried out through the ground segment of the AFS (currently, through the AFTN <b>or AMHS</b> )”.	To reflect the transitional state of AMHS implementation
Page 5, par. 3.3.4.1	“Where OPMET exchanges described in the above paragraphs are not sufficient, direct AFTN <b>or AMHS</b> addressing should be utilized by the originating centres or NOCs”	To reflect the transitional state of AMHS implementation
Page 6, par. 4.1.2	“National OPMET center (NOC). Normally, a NOC is associated with the State’s national AFTN centre/switch <b>or AMHS</b> . The ...”	To reflect the transitional state of AMHS implementation
Page 8	In the diagram: Remove the line connecting RODB Brisbane and RODB Tokyo In the key, add a red line indicating AFTN and blue line indicating AMHS Change the colour of the line connecting RODB Brisbane and RODB Nadi to blue	To reflect the current status of connections between RODBs
Page 10, Par. 5.1 to 5.2.4	Replace “AFTN” with “AFTN or AMHS”	To reflect the transitional state of AMHS implementation
Page 10, par. 5.4.1	<del>“Amendment 75 to Annex 3, paragraph 11.1.9 allows the use of the Internet for non-time critical OPMET information”</del>	Remove redundant reference to Am. 75
Page 12, par. 6.1.7	Replace “AFTN” with “AFTN or AMHS”	To reflect the transitional state of AMHS implementation
Page 16, par. 7.1.3	Replace “AFTN” with “AFTN or AMHS”	To reflect the transitional state of AMHS implementation
Page 16, par. 7.2.1	“Originating AMOs (or other designated forecasting offices) should prepare the required TAF messages for the periods of validity indicated in Appendix B. <b>In accordance with Annex 3 [6.2.2], TAF shall be issued not earlier than one hour prior to the beginning of its validity period.</b> TAFs should be sent by the AMOs or NOCs <del>and</del> to the responsible ROBEX center before the cut-off time set up by this centre <b>e.g., 15 minutes before the filing/transmission times specified in Appendix B</b> ”.	Realign with Amendment 76 to Annex 3 Realign with paragraph 7.3.3
Page 17, par.	<del>“The filing time for 24 and 30 hour TAF bulletins should be one hour before the start of the validity period.</del> In	Realign with Amendment 76 to

Section/page	Amendment	Notes/reasoning
7.3.4	accordance with Annex 3 [Appendix 10, 2.1.2], TAF [bulletins] should be filed for transmission [by ROBEX centres] not earlier than one hour prior to the beginning of their validity period The filing/transmission times specified in <b>Appendix B</b> ensure the OPMET information is available to the users twenty five (25) minutes prior to the beginning of the TAF validity period”	Annex 3 and ensure 25 minutes lead time between transmission of TAF bulletin and beginning of TAF validity period.
Page 18, par. 7.4.1.2	In the table; headings of 3 <sup>rd</sup> and 5 <sup>th</sup> columns: “Filing time (not prior to)”	Realign with Amendment 76 to Annex 3
Page 19, par. 7.5.1	In the table; 2 <sup>nd</sup> column, replace “ROBEX Centre via AFTN” with ” ROBEX Centre via AFTN or AMHS”	Realign with Amendment 76 to Annex 3
Page 20, par. 7.5.1	In the table ‘TAF issuance, compiling and filing’; 3 <sup>rd</sup> column ‘Explanation of Time’: “State determines time of the beginning of the validity period for four (4) scheduled TAFs (emphasis on consistency, i.e. 00, 06, 12, 18Z every day) Note that issuance time of TAF (which is not earlier than one hour before prior to the start beginning of its validity period of validity of the TAF) is used in the date/time group (DTG) (YYGGggZ) of TAF messages TAF is sent to ROBEX Centre before the cutoff time of accepting TAF for filing one hour before the start period of validity time as indicated in Appendix B (typically 15 minutes before filing)” ... “TAF should be filed for transmission at least not earlier than one hour before prior to the commencement beginning of their validity period-of validity, unless otherwise determined by regional air navigation agreement”	Realign with Amendment 76 to Annex 3 Realign with paragraph 7.2.1
Page 25 to 26, par. 11.3 to 11.4	Replace “AFTN” with “AFTN or AMHS”	To reflect the transitional state of AMHS implementation
Page 27, par. 12.1.3	Replace “AFTN” with “AFTN or AMHS”	To reflect the transitional state of AMHS implementation
Page 28, par. 12.3.1.2	Replace “AFTN” with “AFTN or AMHS”	To reflect the transitional state of AMHS implementation
Appendix A, page A-9	Under ROBEX Centre Tokyo RJTD, METAR Bulletin SASJP38, add details for location RJFS SAGA	As advised by Japan to reflect current service provided (note: RJFS is not listed in AOP tables)
Appendix B, pages B-2 to B-11	Under all TAF bulletins, change the filing time (in the 6 <sup>th</sup> column of the table) to correspond to the time 25 minutes prior to the start of validity (in the 7 <sup>th</sup> column of the table)	Realign with Amendment 76 to Annex 3 (i.e., filing time of TAF bulletins by ROBEX centres should allow for compilation of TAF which shall be issued not earlier than one hour prior to the beginning of its validity period) and ensure TAF bulletins are

Section/page	Amendment	Notes/reasoning
		available to users at least 25 minutes prior to the commencement of the validity period
Appendix B, page B-6	Under TAF Bulletin FTNG31, delete the note “*doc 7910 is expected to be updated from AUUU to ANYN”	Remove redundant information
Appendix B, page B-8 to B-9	Under ROBEX Centre Tokyo RJTD, TAF Bulletins FTJP31, FTJP32 and FTJP38, change the TAF validity for all locations to 30 hours	As advised by Japan to reflect current service provided
Appendix B, page B-9	Under ROBEX Centre Tokyo RJTD, TAF Bulletin FTJP38, add details for location RJFS SAGA	As advised by Japan to reflect current service provided (note: RJFS is not listed in AOP tables)
Appendix C, page C-2	In the header information: “ <del>AOP</del> Aerodromes listed in Table AOP 1”	Realign with official terminology
Appendix C, page C-2	Under AUSTRALIA, change FT bulletin for YPXM, YPCC, YMHB, YSNF, YPPD and YBRK to FTAU32YBBN	Realign with Appendix B changes (As proposed by Australia in ROBEX WG/13 – IP/5)
Appendix C, page C-9	In the header information: “Additional <del>non-AOP</del> Aerodromes not listed in Table AOP 1”	Realign with official terminology
Appendix C, page C-9	Under AUSTRALIA: Change FT bulletin for YBRM, YCFB, YMLT and YWLM to FTAU32 YBBN; Change FT bulletin for YAMB to FTAU33 YBBN; Change FT bulletin for YCIN, YFRT, YPGV and YPKU to FTAU35 YBBN; and Add “LORD HOWE ISLAND, YLHI, FTAU32 YBBN”	Realign with Appendix B changes (As proposed by Australia in ROBEX WG/13 – IP/5)
Appendix C, page C-11	Under Thailand, next to <i>PRACHUAP KHIRI KHAN/Huan Hin</i> , add details for the bulletin: FTTH31 VTBB; next to <i>TRAT/Khao Sming</i> , add details for the bulletin: FTTH33 VTBB; and fill in the name UDON THANI next to location indicator VTUDS	As advised by Thailand
Appendix H, page H-4, par. 1.1.5	In the table; 2 <sup>nd</sup> row: “SIGMET for TS, <del>CB</del> , TURB, ICE, MTW, DS, <del>and-SS</del> and RDOACT CLD ...”	Realign with Annex 3 requirements (Appendix 6, 1.1.4)
Appendix I, page I-2	Change ROBEX focal point details for Japan: “ <del>Mr. Yuichi Yamakoshi</del> Mr. Jun Ryuzaki ... <del>y-yamakoshi@met.kishou.go.jp</del> jryuzaki@met.kishou.go.jp”	As advised by Japan
Appendix I, page I-4	Change ROBEX focal point details for Republic of Korea: “ <del>Mr. Lee Seung-ju</del> Ms. Park Jieun	As advised by Republic of Korea

Section/page	Amendment	Notes/reasoning
	<p><del>Assistant Director Senior Meteorologist ... Information and Technology Support</del> <b>Observation and Forecast</b>            Division ... Tel:+82 (32) 740284020, Fax:+82 (32) 740284707, e-mail:  <a href="mailto:eavok75@korea.kr">eavok75@korea.kr</a> <a href="mailto:jieuni@korea.kr">jieuni@korea.kr</a>”</p> <p>“Ms. Kim Youn-jeong ... Information and Technology <del>Support</del> Division ...”</p> <p>“Administration units OPMET/ROBEX  <del>Aviation Meteorological Office</del>  <del>2172-1, Woonseo-dong, Joong-gu</del>  <del>Incheon-400-340</del>  <b>Korea Aviation Meteorological Agency (KAMA)</b>  <b>272 Gonghang-ro, Jung-gu</b>  <b>Incheon, 400720 (P.O. Box 43)</b>            (Location Indicator : RKSIIYPYX)”</p>	

**Table 2:** Additional amendments to the APAC ICD provided by ROBEX WG/13

Section/page	Amendment	Notes/reasoning
Appendix A, page A-6	Under Republic of Korea, next to bulletin SAKO31, delete the locations: RKJJ, RKJY, RKPS, RKPU and RKTH	As advised by Republic of Korea
Appendix B, page B-4	Under Korea, next to bulletin SAKO31, add the location: RKJB	As advised by Republic of Korea
Appendix E, page E-11	Under Korea, Republic of, next to bulletin FTKO31 (RKSL), add the locations: RKJB and RKTN; next to bulletin SAKO31 (RKSL), add the location: RKJB; and delete the entire row for bulletin SAKO41	As advised by Republic of Korea