



International Civil Aviation Organization

**SIXTEENTH MEETING OF THE
COMMUNICATIONS/NAVIGATION/SURVEILLANCE AND
METEOROLOGY SUB-GROUP (CNS/MET SG/16) OF APANPIRG**

Bangkok, Thailand, 23 – 27 July 2012

Agenda Item 13: Review of regional procedures contained in the ANP/FASID

REVIEW MET PART OF ASIA/PAC BASIC ANP AND FASID TABLES

(Presented by the Secretariat)

SUMMARY

This paper provides the meeting an opportunity to review and update the MET part of the ASIA/PAC Basic Air Navigation Plan (Basic ANP) and Facilities and Implementation Document (FASID) Tables and discusses proposals to amend the Basic ANP and FASID, including consideration of the proposal to transfer FASID Table ATS 2 from ATS to MET (APANPIRG/21 – Conclusion 21/10 refers).

This paper relates to –

Strategic Objectives:

A: Safety - *Enhance global civil aviation safety*

C: Environmental Protection and Sustainable Development of Air Transport - *Foster harmonized and economically viable development of international civil aviation that does not unduly harm the environment*

Global Plan Initiatives:

GPI-18 Aeronautical information

GPI-19 Meteorological Systems

1. Introduction

1.1 Maintaining the Basic ANP and associated FASID Tables MET has many purposes which include: (1) regional planning by operators, (2) measurement of implementation which allows for proper focus in implementation strategies by many entities (Operations, States and ICAO); and (3) input to cost-recovery of MET Services provided for international aviation. Therefore, an annual review of the latest Basic ANP and FASID Tables MET is strongly encouraged.

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23/07/12

2. Discussion

2.1 The meeting is reminded that the Proposal for Amendment (PfA) of Basic ANP (AP11-03) and FASID (AP11-04), presented and discussed at the last CNS/MET SG/15 meeting in July 2011, were subsequently revised and re-approved during 2011-2012 (State Letters APAC 11/3-MET:AP069/12 & 11/4-MET:AP046/12 refer). A summary of the revised and re-approved parts of amendment proposals AP11-03 and AP11-04 is provided in the **Attachment 1**.

2.2 The meeting is also reminded that the World Area Forecast System Operations Group (WAFSOPSG) is tasked to review the WAFS-related procedures contained in the ANP (Basic and FASID). These were last reviewed and adopted by the WAFSOPSG/6 meeting in March 2011, under Conclusion 6/2, to clearly specify the criteria for the access to the Internet-based services in light of the global coverage of the public Internet and to introduce FASID Table MET 6, which lists the primary Internet-based service (SADIS FTP and/or WIFS) from which States/users in the ASIA/PAC Region should obtain WAFS forecasts. As follow-up to the WAFSOPSG/6 Conclusion 6/2, the ICAO Regional Office prepared PfA AP12/4-MET (Basic ANP) and AP12/9-MET (FASID), which are currently in process of approval (State Letters APAC 12/4-MET:AP071/12 & 12/9-MET:AP072/12 refer) and are provided in the **Attachment 2**.

2.3 The meeting is also reminded that the OPMET Management Task Force (OPMET/M TF) is tasked to regularly update the regional guidance material related to OPMET exchange. The OPMET/M TF/10 meeting in April 2012 reviewed and adopted amendments to the FASID that were proposed by Indonesia and Malaysia. Details of the resultant PfA, which is under preparation in the Regional Office for subsequent review and approval, are provided in **Attachment 3** and include: the replacement of PADANG/Tabing (WIMG) with PADANG/Minangkabau International (WIPT) in FASID Table MET 2A; the replacement of MATARAM/Selaparang (WADA) with MATARAM/Lombok International (WADL) in FASID Table MET 2A; the revision of FASID Table MET 2A to specify OPMET availability as “partial” (instead of “full”) for 21 of the 26 listed Indonesian aerodromes (i.e., excluding WABB, WIIL, WAAA, WIMM and WARR); and the removal of the word ‘RMAF’ from the aerodrome ‘Labuan’ (WBKL).

2.4 With reference to the ICAO’s consideration of the transfer of FASID Table ATS 2 (HF radiotelephony VOLMET broadcasts) from ATS to MET (APANPIRG/21 Conclusion 21/10 refers^{1 2}) the secretariat representing MET, ATM, IIM and SAST within the ANB is of the view that it is undesirable at the present time to implement such a move. Reasons include but are not limited to the fact that FASID Table ATS 2 contains, in addition to requirements for MET, information that resides more firmly in the arenas of ATS or CNS/ATM. Furthermore, the proposed move would have significant implications on resources; it is currently not in the scope of activities planned for the migration of the paper-based ANP environment to the eANP environment, which makes it impractical at the present time. Notwithstanding this view, as the eANP is launched and further matures, offering customizable views and dynamic interactions with all FASID Tables, it may be necessary to review the above considerations at a later stage. However, it should be noted that the ATS and CNS/ATM aspects noted above that are beyond the remit of MET would likely still apply in the eANP era.

¹ APANPIRG/21 Conclusion 21/10 – That, ICAO considers the transfer of FASID Table ATS 2, HF radiotelephony VOLMET broadcasts, from ATS to MET, which would involve moving the Tables related to VOLMET broadcasts from the ATS part to the MET part of all ANP/FASID, where applicable.

² For further reference: ATM/AIS/SAR/SG/20, 5-9 July 2010, Agenda item 8, WP/25 and Draft Conclusion 20/14; and CNS/MET SG/14, 19-22 July 2010, Agenda Item 13 and Draft Conclusion 14/34.

3. Action by the Meeting

3.1 The meeting is invited to:

- a) note the information in this paper;
- b) note the progress on updating the ANP and FASID tables; and
- c) provide input on changes to the ANP and FASID tables.

Attachment 1

Note: Revisions to the original PfA are shown below using strikeout (~~text to be deleted~~) and yellow highlight (text to be inserted or to replace the existing text).

Parts of REVISED PfA (Basic ANP); AP11-03 – MET:

Proposed amendment:

Update Part VI, METEOROLOGY (MET), of the Basic Air Navigation Plan – Asia and Pacific Regions, page VI-54, paragraph 32 and 33 in accordance to WAFSOPSG/6 Conclusion 6/2 30 that renames FASID Table MET 5 to 4 (Part VI, MET, page VI 4).

Originator's reasons for amendment:

Amendment to the WAFS-related regional procedures in the ANP/FASID.

Secretariat comments:

i) The Secretariat is in favour of the proposed amendment by WAFSOPSG/6 in order to improve clarity in describing Internet based Services by WAFCS. ~~be consistent with other regions in reserving FASID Table MET 5 for future regional requirements.~~

Parts of REVISED PfA (FASID); AP11-04 – MET:

Proposed amendment:

~~(text)~~

Update ~~text of PART VI, METEOROLOGY (MET), of the ASIA/PAC Facilities and Services Implementation Document, page VI 2, paragraph 5.1 to rename Table 5 to Table 4 for global consistency. (Part VI, MET – FASID, page VI 2)~~

~~(FASID Table MET 1A)~~

Amend

~~(FASID Table MET 1B)~~

Changed VGZR to VGHS in accordance to Doc 7910.

(Part VI, MET – FASID, pages VI-MET 1B-4)

Removed note (MWO not implemented) for Lao PDR since the Vientiane (VLVT) MWO was implemented 1 April 2010.

(Part VI, MET – FASID, pages VI-MET 1B-4)

~~(FASID Table MET 3A)~~

Changed VGZR to VGHS

(Part VI, MET – FASID, pages VI-MET 3A-4)

Added Vientiane (VLVT) MWO as recipient of tropical cyclone advisories from TCAC Tokyo.

Added Chengdu (ZUUU) MWO as recipient of tropical cyclone advisories from TCAC Tokyo.

(Part VI, MET – FASID, pages VI-MET 3A-5)

(FASID Table MET 3B)

Changed VGZR to VGHS and nomenclature in accordance to Doc 7910.

(Part VI, MET – FASID, pages VI-MET 3B-5)

(FASID Table MET 5)

Changed updated in accordance to WAFSOPSG/6 Conclusion 6/2 (Part VI, MET – FASID, page VI-MET 5-3 FASID Table MET 5 to 4 in title and page numbers from VI-MET 5-1 and 5-3 to 4-1 and 4-3. (~~Part VI, MET – FASID, pages VI-MET 5-1 and 5-3~~)

Originator's reasons for amendment:

China: Chengdu (ZUUU) MWO issues SIGMETs including for tropical cyclone (WC SIGMET) for the Phnom Penh (VDPP) FIR of Cambodia on behalf of Cambodia under the Letter of Agreement (LOA) between China and Cambodia aviation authorities.

Lao PDR: has established a Meteorological Watch Office on 1 April 2010.

WAFSOPSG provided clarity in describing Internet based-services by WAFCs. Secretariat: text part of FASID updated to be globally consistent and reserve FASID Table MET 5 for future regional requirements.

~~Also, VGZR was changed to VGHS and associated nomenclature in accordance to 7910.~~

Secretariat comments:

i) The Secretariat is in favour of the proposed amendment in that Chengdu MWO of China receives tropical cyclone advisories from TCAC Tokyo for the issuance of SIGMET on tropical cyclone for the Phnom Penh (VDPP) FIR of Cambodia based on a letter of agreement between China and Cambodia aviation authorities.

ii) The Secretariat is in favour of the proposed amendment in that the documentation reflects the establishment of a MWO in Lao PDR.

iii) The Secretariat is in favour of the proposed amendment by WAFSOPSG/6 in order to improve clarity in describing Internet based Services by WAFCs.

~~iii) The Secretariat is in favour of the proposed amendment to reserve FASID Table MET 5 for future regional requirements as agreed upon globally.~~

~~iv) The Secretariat is in favour of the proposed amendment related to changing VGZR to VGHS and associated nomenclature in accordance to Doc 7910 (ed. 139).~~

iv) Editorial note: Amendments are arranged to show “deleted word/text” using
strikeout (~~text to be deleted~~), and “added word/text” with yellow highlight (text to be
inserted or to replace the existing text).

Attachment 2

Editorial note: Amendments are arranged to show “deleted word/text” using strikeout (~~text to be deleted~~), and “added word/text” with yellow highlight (text to be inserted or to replace the existing text).

REVISED parts of Basic ANP from PfA AP12/04 – MET:

MET page VI-4:

WORLD AREA FORECAST SYSTEM (WAFS) (FASID Tables MET 5 and MET 6)

30. FASID Table MET 5 sets out the ASIA/PAC Regions’ requirements for WAFS forecasts to be provided by WAFC London and WAFC Washington.
[WAFSOPSG Conclusion 1/2]

31. For back-up purposes, each WAFC should have the capability to produce WAFS forecasts for all the required areas of coverage.
[WAFSOPSG Conclusion 5/2]

32. WAFS forecasts should be made available by WAFC London using the satellite distribution system for information relating to air navigation (SADIS), including the SADIS FTP Service, and by WAFC Washington using the WAFS Internet File Service (WIFS). ~~international satellite communications system (ISCS2) covering the reception areas shown in FASID Chart CNS [4] or using the satellite and Internet service.~~
[WAFSOPSG Conclusion 6/2]

33. Each State should make the necessary arrangements to receive and make full operational use of operational WAFS forecasts made available by WAFC London and WAFC Washington. The lists of the authorized users of the SADIS, and WIFS, ~~ISCS1 and ISCS2~~ services in the ASIA/PAC regions and locations of the operational SADIS VSATs and Internet-based services (SADIS FTP and WIFS) are available from the following websites:

- ~~www.icao.int/anb/sadisopsg~~ <http://www2.icao.int/en/anb/met/sadisopsg/> (click “Operational Information” and then “Status of implementation of SADIS”) for SADIS;
- <http://www.aviationweather.gov/wifs/> ~~www.weather.gov/iscs (click: “Documents” and then “Status of implementation of ISCS listed by ICAO regions”)~~ for ISCS.

[WAFSOPSG Conclusion 6/2]

34. FASID Table MET 6 lists the primary Internet-based services (SADIS FTP and/or WIFS) from which States/users in the ASIA/PAC Regions should obtain WAFS forecasts made available by WAFC London and WAFC Washington.
[WAFSOPSG Conclusion 6/4]

REVISED parts of FASID from PfA AP12/09 – MET:

MET page VI-2:

5. WORLD AREA FORECAST SYSTEM (WAFS)
(FASID Tables MET 5 and MET 6)

5.1 FASID Tables MET 5 and MET 6 sets out the ASIA/PAC Regions’ requirements for WAFS forecasts, to be provided by WAFS London and WAFS Washington.

MET new page:

FASID TABLE MET 6

**PRIMARY INTERNET-BASED SERVICE IN THE ASIA/PAC REGION
FOR WAFS FORECASTS**

EXPLANATION OF THE TABLE

Column

1 States for which WAFS forecasts are made available by WAFS London and WAFS Washington

2 Primary Internet-based service for WAFS dissemination

State	Primary Internet-based service for WAFS dissemination
1	2
Afghanistan	SADIS FTP
Australia	Either
Bangladesh	SADIS FTP
Bhutan	SADIS FTP
Brunei Darussalam	Either
Cambodia	Either
China	Either
Hong Kong, China	Either
Macao, China	Either
Cook Islands	WIFS
Democratic People's Republic of Korea	Either
Fiji	WIFS
India	SADIS FTP

State	Primary Internet-based service for WAFS dissemination
Indonesia	Either
Japan	Either
Kiribati	WIFS
Lao People's Democratic Republic	Either
Macao, China	Either
Malaysia	Either
Maldives	SADIS FTP
Marshall Islands	WIFS
Micronesia (Federated States of)	WIFS
Mongolia	Either
Myanmar	Either
Nauru	WIFS
Nepal	SADIS FTP
New Zealand	WIFS
Pakistan	SADIS FTP
Palau	Either
Papua New Guinea	WIFS
Philippines	Either
Republic of Korea	Either
Samoa	WIFS
Singapore	Either
Solomon Islands	WIFS
Sri Lanka	SADIS FTP
Thailand	Either
Timor-Leste	Either
Tonga	WIFS
Tuvalu	WIFS
Vanuatu	WIFS
Viet Nam	Either

Note.— The determination of the primary Internet-based services (SADIS FTP and/or WIFS) from which States/users should obtain WAFS forecasts is based on the geographic areas of coverage of the SADIS and ISCS2 satellite footprints.

Attachment 3

Editorial note: Amendments are arranged to show “deleted word/text” using strikethrough (~~text to be deleted~~), and “added word/text” with yellow highlight (text to be inserted or to replace the existing text).

REVISED parts of FASID from PfA AP12/xx – MET (under preparation):

FASID Table MET 2A:

Aerodrome where service is to be provided			OPMET to be provided		
Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S/SP	TAF	Availability
1	2	3	4	5	6
...					
Indonesia					
AMBON/PATTIMURA		WAPP	Y		F P
BALI/NGURAH RAI		WADD	Y	T	F P
BALIK PAPAN/SEPINGGAN		WALL	Y	X	F P
BANJARMASIN/SYAMSUDIN NOOR		WAOO	Y		F P
BATAM/HANG NADIM		WIDD	Y	T	F P
BIAK/FRANS KAISIEPO		WABB	Y	X	F
JAKARTA/HALIMPERDANA KUSUMA		WIHH	Y	T	F P
JAKARTA/SOEKARNO HATTA (COMM CENTER)		WIII	Y	X	F
JAYAPURA/SENTANI		WAJJ	Y		F P

	JOGYAKARTA/ADISUCIPTO	WARJ	Y	T	FP
KUPANG/EL TARI		WATT	Y		FP
MANADO/SAM RATULANGI		WAMM	Y	X	FP
	<i>MATARAM/SELAPARANG</i>	<i>WADA</i>	<i>Y</i>	<i>F</i>	<i>F</i>
	<i>MATARAM/Lombok International</i>	<i>WADL</i>	<i>Y</i>	<i>T</i>	<i>P</i>
MEDAN/POLONIA		WIMM	Y	T	F
MERAUKE/MOPAH		WAKK	Y		FP
<i>PADANG/TABING</i>		<i>WIMG</i>	<i>Y</i>		<i>F</i>
<i>PADANG/Minangkabau International</i>		<i>WIPT</i>	<i>Y</i>	<i>T</i>	<i>P</i>
PALEMBANG/SULTAN MAHMUD BADARUDDIN II		WIPP	Y		FP
PEKANBARU/SULTAN SYARIF KASIM II		WIBB	Y		FP
PONTIANAK/SUPADIO		WIOO	Y		FP
	<i>SOLO/ADI SUMARMO</i>	WARQ	Y	T	FP
	<i>SORONG/JEFMAN</i>	WASS		T	FP
SURABAYA/JUANDA		WARR	Y	T	F
TANJUNG PINANG/KIJANG		WIDN	Y		FP
TARAKAN/JUWATA		WALR	Y		FP
TIMIKA/MOSES KILANGIN		WABP	Y		FP
UJUNG PANDANG/HASANUDDIN (COMM CENTER)		WAAA	Y	X	F
...					
Malaysia					
	<i>ALOR STAR/SULTAN ABDUL HALIM</i>	WMKA	Y	T	F
	<i>BINTULU</i>	WBGB	Y	T	F
	<i>BUTTERWORTH (RMAF)</i>	WMKB	Y	T	F
	<i>IPOH/SULTAN AZLAN SHAH</i>	WMKI	Y	T	F
JOHOR BAHRU/SULTAN ISMAIL		WMKJ	Y	T	F
	<i>KERTEH (PETRONAS)</i>	WMKE	Y	T	F
	<i>KOTA BHARU/SULTAN ISMAIL PETRA</i>	WMKC	Y	T	F
KOTA KINABALU/INTL		WBKK	Y	T	F
	<i>KUALA TERENGGANU/SULTAN MAHMUD</i>	WMKN	Y	T	F

	KUANTAN (RMAF)	WMKD	Y		F
KUCHING/INTL		WBGG	Y	T	F
	LABUAN (RMAF)	WBKL	Y	T	F
	MALACCA	WMKM	Y		F
	MIRI	WBGR	Y	T	F
PENANG/INTL		WMKP	Y	T	F
PULAU LANGKAWI/INTL		WMKL	Y	T	F
	SANDAKAN	WBKS	Y	T	F
SEPANG/KL INTERNATIONAL AIRPORT		WMKK	Y	X	F
	SIBU	WBGS	Y	T	F
	SUBANG/SULTAN ABDUL AZIZ SHAH	WMSA	Y	T	F
	TAWAU	WBKW	Y	T	F
...					
