



ICAO

International Civil Aviation Organization

WORKING PAPER

**Twenty-fifth Meeting of the Meteorology Sub-group
(MET SG/25)**

Online, 18 – 22 October 2021

Agenda Item 6: Regional guidance material

SUGGESTIONS ON THE UPDATE OF ICAO APAC ROBEX HANDBOOK

(Presented by China)

SUMMARY

This paper presents the requirement of OPMET bulletins from Sri Lanka, Indonesia, Malaysia and India, and invites the meeting to coordinate the regular exchange of international OPMET bulletins from ROC Colombo, Jakarta, Kuala Lumpur, Mumbai, Delhi and Kolkata to ROC Beijing (ZBBBYPYX), and to update the Table A of APPENDIX A in ICAO ROBEX Handbook according to the above changes.

1. INTRODUCTION

1.1 China presented a working paper WP/09 in the ICAO APAC MET/IE/17 meeting in 2019, which introduced the requirement of OPMET bulletins of ICAO APAC, including bulletins from Thailand, Australia, Sri Lanka, Indonesia, Malaysia and India, to be disseminated to Beijing ROC.

1.2 An action related with the WP/09 suggestions (Action 17/4) was in the final report of the ICAO APAC MET/IE/17 meeting:

Action 17/4: Coordinate a proposal to update the ROBEX Handbook to enable the regular exchange of several international OPMET bulletins to the ROBEX Centre Beijing and present it for further review and possible endorsement by MET/SG/23.[Report of MET/IE WG/17, para. 3.9 – 3.12, refers]

1.3 This action was also reviewed by ICAO APAC MET/IE/18 meeting in 2020 and in the task list with the status “TO COMMENCE”.

1.4 The bulletins of Thailand and Australia could be received through AFTN by Beijing ROC after the ICAO APAC MET/IE/17 meeting. There was no feedback from Sri Lanka, Indonesia, Malaysia and India, even though several requirement e-mails were also sent to them after the meeting.

1.5 This paper presents the OPMET bulletins requirement of China again, and invites the meeting to coordinate the regular exchange of international OPMET bulletins from ROC Colombo, Jakarta, Kuala Lumpur, Mumbai, Delhi and Kolkata to ROC Beijing (ZBBBYPYX), and to update the Table A of APPENDIX A in ICAO ROBEX Handbook according to the above changes.

2. DISCUSSION

2.1 There are many flights between China and the above-mentioned states every day. The bulletins of Beijing ROC have been disseminated to the ROCs according to ICAO ROBEX Handbook, including ROC Jakarta, Kuala Lumpur and Mumbai, which is shown in Table 1.

Table 1: The destination list of Beijing ROC in ICAO APAC ROBEX Handbook

Table A : Collection and Dissemination of METAR (SA) Bulletins								
1		2			3	4	5	
ROC		METAR Bulletin			Bul. Time	Available	DISSEMINATION TO	
Name	CCCC	BUL No.	CCCC	Aerodrome			RODB/ROC	AFTN Address
Beijing	ZBBB	SACI31	ZBAA	BEIJING/Capital	HH + 00 HH + 30		BANGKOK	VTBBYPYX
			ZBSJ	SHIJIAZHUANG/Zhengding			BRISBANE	YBBBYPYX
			ZBTJ	TIANJIN/Binhai			SINGAPORE	WSZZYPYM
			ZBYN	TAIYUAN/Wusu			TOKYO	RJTDYPYX
			ZGGG	GUANGZHOU/Baiyun			Hong Kong	VHZZYPYX
			ZSHC	HANGZHOU/Xiaoshan			Jakarta	WIZZMZBB
			ZSPD	SHANGHAI/Pudong			Karachi	OPZZYPYX
			ZSSS	SHANGHAI/Hongqiao			Mumbai	VABBYPYX
			ZWSH	KASHI/Kashi			Incheon	RKSIYPYX
			ZWWW	URUMQI/Diwopu			Ulaanbaatar	ZMUBMYX
			ZYTL	DALIAN/Zhoushuizi				
			ZYTX	SHENYANG/Taoxian				
		SACI32	ZGKL	GUILIN/Liangjiang	HH + 00		BANGKOK	VTBBYPYX
	ZGNN		NANNING/Wuxu	BRISBANE			YBBBYPYX	
	ZGOW		SHANTOU/Waisha	SINGAPORE			WSZZYPYM	
	ZGSZ		SHENZHEN/Baoan	TOKYO			RJTDYPYX	
	ZLXY		XI'AN/Xianyang	Hong Kong			VHZZYPYX	
	ZMUB		ULAANBAATAR	Jakarta			WIZZMZBB	
	ZPPP		KUNMING/Wujiaba	Kuala Lumpur			WMZZYPYX	
	ZSAM		XIAMEN/Gaoqi	Incheon			RKSIYPYX	
	ZSFZ		FUZHOU/Changle	Wellington			NZZZYPYX	
	ZSNB		NINGBO/Lishe					
	ZSQD		QINGDAO/Liuting					
	ZUUU		CHENGDU/Shuangliu					
	SACI41	ZBHH	HOHHOT/Baita	HH + 00		BANGKOK	VTBBYPYX	
ZGHA		CHANGSHA/Huanghua	BRISBANE			YBBBYPYX		
ZHCC		ZHENGZHOU/Xinzheng	SINGAPORE			WSZZYPYM		
ZHHH		WUHAN/Tianhe	TOKYO			RJTDYPYX		
ZJHK		HAIKOU/Meilan	Hong Kong			VHZZYPYX		
ZJSY		SANYA/Phoenix	Jakarta			WIZZMZBB		
ZLLL		LANZHOU/Zhongchuan	Karachi			OPZZYPYX		
ZSNJ		NANJING/Lukou	Mumbai			VABBYPYX		
ZSOF		HEFEI/Luogang	Incheon			RKSIYPYX		
ZUCC		CHONGQING/Jiangbei	Ulaanbaatar			ZMUBMYX		

2.2 The current ICAO APAC ROBEX Handbook does not indicate ROC Colombo, Jakarta, Kuala Lumpur, Mumbai, Delhi and Kolkata to disseminate their OPMET bulletins to ROC Beijing (e.g. Appendix 1 of this paper). But some OPMET bulletins from these ROCs, necessary for many flights, are not available by Beijing ROC. So Beijing ROC has to request meteorological reports from RODBs every day, mostly for METARs from the above-mentioned ROCs. Table 2 shows the common situation of METAR requests sent by ROC Beijing.

Table 2: The situation of METAR requests

Stations whose METAR is requested	Belongs to ROBEX Centre		METAR Bulletin No.	Current Progress
	Name	CCCC		
VCBI	Colombo	VCCC	SASB31	Can't get in touch with Sri Lanka
WADD,WARR,WIHH,WAAA	Jakarta	WIHH	SAID31	Can't get in touch with Indonesia
WIPP, WADL	Jakarta	WIHH	SAID32	
WATT	Jakarta	WIHH	SAID33	
WBKK	Kuala Lumpur	WMKK	SAMS31	Can't get in touch with Malaysia
VABB,VAAH	Mumbai	VABB	SAIN31	Can't get in touch with India
VIDP	Delhi	VIDP	SAIN32	
VNKT	Kolkata	VECC	SAAS31	
VGHS	Kolkata	VECC	SABW31	

3. CONCLUSION

3.1 In order to improve the flight efficiency and safety, China has put many efforts to collect the related OPMET bulletins from ROC Colombo, Jakarta, Kuala Lumpur, Mumbai, Delhi and Kolkata, but there is no much progress. So China suggests the meeting to push forward the Action 17/4 of ICAO APAC MET/IE/17 meeting.

4. ACTION BY THE MEETING

4.1 The meeting is invited to:

- a) coordinate the regular exchange of international OPMET bulletins from ROC Colombo, Jakarta, Kuala Lumpur, Mumbai, Delhi and Kolkata to ROC Beijing (ZBBBYPYX);
- b) update the Table A of APPENDIX A in ICAO ROBEX Handbook according to the above changes.

Appendix 1

Table A : Collection and Dissemination of METAR (SA) Bulletins								
1		2			3	4	5	
ROC		METAR Bulletin			Bul. Time	Available	DISSEMINATION TO	
Name	CCCC	BUL No.	CCCC	Aerodrome			RODB/ROC	AFTN Address
Colombo	VCCC	SASB31	VCBI	BANDARANAIKE INTL AP	HH + 10		BANGKOK	VTBBYPYX
			VCRI	COLOMBO			BRISBANE	YBBBYPYX
			VCCH	MATTALA RAJAPAKSA			SINGAPORE	WSZZYPYM
		SAMV31	VRMG	INTERNATIONAL AIRPORT			TOKYO	RJTDYPYX
			VRMH	HANIMAADHOO INTERNATIONAL			Hong Kong	VHZZYPYX
			VRMM	AIRPORT			Kuala Lumpur	WMZZYPYR
				MALE INTERNATIONAL AIRPORT			Mumbai	VABBPYX
Jakarta	WIII	SAID31	WAAA	UJUNG PANDANG/Hasanuddin	HH + 00	2200-1700	BANGKOK	VTBBYPYX
			WABB	BIAK/Frans Kaisiepo	HH + 30		BRISBANE	YBBBYPYX
			WIHH	JAKARTA/Halimperdana Kusuma			SINGAPORE	WSZZYPYM
			WIII	JAKARTA/Soekarno Hatta (COMM CENTER)			TOKYO	RJTDYPYX
			WIDD	BATAM/Hang Nadim			Hong Kong	VHZZYPYX
			WIMM	MEDAN/Polonia			Kuala Lumpur	WMZZYPYR
		WADD	BALI/Ngurah Rai		Wellington	NZZZYPYX		
		WARR	SURABAYA/Juanda					
		SAID32	WAMM	MANADO/Sam Ratulangi	HH + 00	2200-0500	BANGKOK	VTBBYPYX
			WIBB	PEKANBARU/Sultan Syarif Kasim II	HH + 30		BRISBANE	YBBBYPYX
			WIDN	TANJUNG PINANG/Kijang			SINGAPORE	WSZZYPYM
			WIEE	PANDANG/MINANGKABAU			TOKYO	RJTDYPYX
			WIOO	PONTIANAK/Supadio			Hong Kong	VHZZYPYX
			WIPP	PALEMBANG/Sultan Mahmud Badaruddin II			Kuala Lumpur	WMZZYPYR
		WAOO	BANJARMASIN/Syamsuddin Noor		Wellington	NZZZYPYX		
WALL	BALIK PAPAN/Sepinggan							
WADL	PRA YA/LOMBOK INTERNATIONAL							
SAID33	WAYY	TIMIKA/Moses Kilangin	HH + 00	2100-0800	BANGKOK	VTBBYPYX		
	WAJJ	JAYAPURA/Sentani	HH + 30		BRISBANE	YBBBYPYX		
	WAKK	MERAUKE/Mopah			SINGAPORE	WSZZYPYM		
	WAPP	AMBON/Pattimura			TOKYO	RJTDYPYX		
	WAHS	SEMARANG/A. Yani			Hong Kong	VHZZYPYX		
	WILL	BANDAR LAMPUNG/Radin Inten			Kuala Lumpur	WMZZYPYR		
WATT	KUPANG/EI Tari		Wellington	NZZZYPYX				
WAQQ	TARAKAN/Juwata							
					2000-1300			

Kuala Lumpur	WMKK	SAMS31	WBGG WBKK WBSB WMKK WMKP WSSS WSSL	KUCHING/Intl KOTA KINABALU/Intl BRUNEI/Intl SEPANG/KL International Airport PENANG/Intl SINGAPORE/Changi SELETAR	HH + 00 HH + 30		BANGKOK BRISBANE SINGAPORE TOKYO Colombo Hong Kong Jakarta Manila Mumbai Incheon Wellington	VTBBYPYX YBBYPYX WSZZPYM RJTDYPYX VCCCPYX VHZZYPYX WIZZMBMB RPLLYPYX VABYPYX RKSYPYX NZZYPYX
		SAMS38	WBGB WBGR WBGs WBKL WBKS WBKW WMKD WMKL WMKM	BINTULU MIRI SIBU LABUAN SANDAKAN TAWAU KUANTAN PULAU LANGKAWI/Intl MALACCA	HH + 00		BANGKOK BRISBANE SINGAPORE TOKYO Colombo Hong Kong Jakarta Manila Mumbai Incheon Wellington	VTBBYPYX YBBYPYX WSZZPYM RJTDYPYX VCCCPYX VHZZYPYX WIZZMBMB RPLLYPYX VABYPYX RKSYPYX NZZYPYX
Mumbai	VABB	SAIN31	VAAH VABB VANP VOMM VOTR VOTV VOHS VOBL VOCL VOCI VOCB VOML	AHMEDABAD MUMBAI/Chhatrapati Shivaji Intl. NAGPUR CHENNAI TIRUCHCHIRAPPALLI TRIVANDRUM HYDERABAD BANGALORE INTL APT CALICUT COCHIN INTERNATIONAL COIMBATORE MANGALORE	HH + 00 HH + 30		BANGKOK BRISBANE SINGAPORE TOKYO Abu Dhabi Bahrain Colombo Delhi Hong Kong Karachi Kolkata Tehran	VTBBYPYX YBBYPYX WSZZPYM RJTDYPYX OMZZYPYX OBZZYPYX VCCCPYX VIDYPYX VHZZYPYX OPZZYPYX VECCYPYX OIZZYPYX
			VIDP VILK VIAR VEBN VIJP	DELHI/Indira Gandhi Intl LUCKNOW AMRITSAR VARANASI JAIPUR	HH + 00 HH + 30		BANGKOK BRISBANE SINGAPORE TOKYO Kolkata Hong Kong Karachi Mumbai	VTBBYPYX YBBYPYX WSZZPYM RJTDYPYX VECCYPYX VHZZYPYX OPZZYPYX VABYPYX
Kolkata	VECC	SAIN33	VECC VEPT VEGY VEGT	NETAJI SUBHASH CHANDRA BOSE INTERNATIONAL AIRPORT, KOLKATA PATNA GAYA GUWAHATI	HH + 00 HH + 30		BANGKOK BRISBANE SINGAPORE TOKYO Colombo Delhi Hong Kong Karachi Mumbai	VTBBYPYX YBBYPYX WSZZPYM RJTDYPYX VCCCPYX VIDYPYX VHZZYPYX OPZZYPYX VABYPYX
		SABW31	VGEG VGHS VGSY	M.A. HANNAN INTL. CHITTAGONG HAZRAT SHAHJALAL INTERNATIONAL AIRPORT OSMANI INTERNATIONAL AIRPORT, SYLHET				
		SAAS31	VNKT VQPR	KATHMANDU PARO/Intl.				