

International Civil Aviation Organization

WORKING PAPER



ICAO

**Asia and Pacific (APAC)
Twenty-first Meeting of the Meteorological Information
Exchange Working Group (MET/IE WG/21)**

Bangkok, Thailand, 27 to 29 March 2023

Agenda Item 6: Guidance material related to meteorological information exchange

UPDATES TO ROBEX HANDBOOK

(Presented by Thailand)

SUMMARY

This working paper presents updates to the ROBEX Handbook to reflect recent service changes implemented in Thailand and Area Responsibility of Bangkok Regional OPMET Centre

1. INTRODUCTION

1.1 The 14th Edition – March 2022 of ICAO Asia and Pacific ROBEX Handbook contains details of OPMET bulletins exchanged

1.2 Thailand proposed the necessary updates to the ROBEX Handbook

2. DISCUSSION

2.1 METAR and TAF reports of **Chiang Rai (VTCT)** and **Krabi (VTSG)** have been removed from SAAE31 VTBB and FTAE31 VTBB

2.2 METAR and TAF reports of **Chiang Rai (VTCT)** and **Tak (VTPT)** have been included in SATH31 VTBB and FTTH31 VTBB

2.3 METAR and TAF reports of **Krabi (VTSG)** and **Batong (VTSY)** have been included in SATH32 VTBB and FTTH32 VTBB

2.4 METAR and TAF reports of **Sihanouk (VDSV)** have been included in SAAE32 VTBB and FTAE32 VTBB

2.5 METAR and TAF reports of **Van Don International (VVVD)** have been included in SAAE34 VTBB and FTAE34 VTBB

2.6 Based on WP/09 MET/IE WG/18: “Update to the ROBEX Handbook”, Thailand proposed request to remove FTTH32 VTBB VTSH” so **Songkhla (VTSH)** have been removed from FTTH32 VTBB

2.7 Official Observation time at aerodrome **Chiang Rai (VTCT)** and **Krabi (VTSG)** have been changed from every 30 minutes to every hour in accordance with actual operations

2.8 Based on Meteorological Information Provided in the Thailand Aeronautical Information Publication (AIP), Bulletin available time of METAR for some aerodrome have been changed as following :

- SATH31 VTBB VTBO change from 0000-1100 to 2200-1100
- SATH31 VTBB VTCH change from 0000-1100 to 2200-1100
- SATH31 VTBB VTCN change from 0000-1100 to 2200-1300
- SATH31 VTBB VTCP change from 0000-1100 to 2200-1100

- SATH33 VTBB VTUK change from 2300-1400 to 24 Hours
- SATH33 VTBB VTUL change from 2300-1400 to 2200-1200
- SATH33 VTBB VTUU change from 0000-1400 to 24 Hours

2.9 Update TAF Validity Period in accordance with actual operations

- FTAE31 VTBB VTCT change from 24 to 30
- FTAE31 VTBB VTSG change from 30 to 24

- FTAE33 VTBB VLLB change from 18 to 24
- FTAE33 VTBB VLLN change from 18 to 24
- FTAE33 VTBB VLPS change from 18 to 24
- FTAE33 VTBB VLSK change from 18 to 24

2.10 Based on WP/19 MET/SG/25: “Suggestion on the Update of ICAO APAC ROBEX Handbook”, China proposed request OPMET Bulletin from Thailand, Australia, Sri Lanka, Indonesia, Malaysia and India to ICAO APAC MET/IE WG/17 on 2019. In this paper, Thailand proposes adding ROC Beijing (ZBBBYPYX) to the list of all Bangkok METAR/TAF Bulletins.

2.11 Attachment 1 to this paper contains the required updates to Appendix A and Appendix B to the ROBEX Handbook.

2.12 Attachment 2 to this paper provides updates of ROBEX focal point of Thailand to Appendix I to the ROBEX Handbook

3. ACTION BY THE MEETING

3.1 The meeting is invited to

1. Note the information contained in the paper; and
2. Request ICAO Secretariat to make the required changes to the ROBEX Handbook

Attachment 1: Amendment Proposal of Appendix A: Collection and Dissemination of METAR (SA) Bulletin

Editorial Note: Amendments are arranged to show deleted text using strikeout and grey shading (text to be deleted), and added text with green shading (text to be inserted)

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
Bangkok	VTBB	SAAE31	VTBD	BANGKOK/Don Mueang Intl Airport	HH+00		BANGKOK	VTBBYPYX
			VTBS	BANGKOK/Suvarnabhumi Intl Airport	HH+30		BRISBANE	YBBBYPYX
			VTBU	RAYONG/U-Taphao Intl Airport			NADI	NFFNYPYX
			VTCC	CHIANG MAI/Chiang Mai Intl. Airport			SINGAPORE	WSZZPYM
			VTCT	CHIANG RAI/Chiang Rai Intl Airport			TOKYO	RJTDYPYX
			VTSG	KRABI			Kolkata	VECCYPYX
			VTSP	PHUKET/Phuket Intl Airport			Colombo	VCCCYPYX
			VTSS	SONGKHLA/Hat Yai Intl Airport			Deihi	VIDPYPYX
							Hong Kong	VHZZYPYX
							Jakarta	WIZZMCMC
							KualaLumpur	WMZZYPYR
							Mumbai	VABBYPYX
							Incheon	RKSIYPYX
							Beijing	ZBBBYPYX
		SAAE32	VDPP	PHNOM PENH	HH+00		BANGKOK	VTBBYPYX
			VDSR	SIEM REAP	HH+30		BRISBANE	YBBBYPYX
			VDSV	SIHANOUK			NADI	NFFNYPYX
			VLVT	VIENTIANE (Wattay)			SINGAPORE	WSZZPYM
			VYMD	MANDALAY INTERNATIONAL			TOKYO	RJTDYPYX
			VYYY	YANGON INTERNATIONAL			Kolkata	VECCYPYX
			VYNT	NAYPYITAW INTERNATIONAL			Colombo	VCCCYPYX
							Deihi	VIDPYPYX
							Hong Kong	VHZZYPYX
							Jakarta	WIZZMCMC
							KualaLumpur	WMZZYPYR
							Mumbai	VABBYPYX

							Incheon Beijing	RKSIYPYX ZBBBYPYX
		SAAE33	VLLB VLLN VLPS VLSK	LUANG PRABANG LUANG NAMTHA PAKSE SAVANNAKHET	HH + 00	2300-1400 2300-1400 2300-1400 2300-1400	BANGKOK BRISBANE NADI SINGAPORE TOKYO Beijing	VTBBYPYX YBBBYPYX NFFNYPYX WSZZYPYM RJTDPYX ZBBBYPYX
		SAAE34	VVCI VVCR VVCT VVDN VVNB VVPB VVPQ VVTS VVVD	CAT BI KHANH HOA/Cam Ranh Int'l CAN THO/Can Tho Int'l DA NANG HA NOI/Noi Bai HUE/Phu Bai KIEN GIANG/Phu Quoc Int'l HO CHI MINH/Tan Son Nhat Van Don Int'l	HH+00 HH+30		BANGKOK BRISBANE NADI SINGAPORE TOKYO Kolkata Colombo Deihi Hong Kong Jakarta KualaLumpur Mumbai Incheon Beijing	VTBBYPYX YBBBYPYX NFFNYPYX WSZZYPYM RJTDPYX VECCYPYX VCCCYPYX VIDPYPYX VHZZYPYX WIZZMCMC WMZZYPYR VABBYPYX RKSIYPYX ZBBBYPYX
		SATH31	VTBO VTCH VTCL VTCN VTCP	TRAT/Khao Sming MAE HONG SON LAMPANG NAN PHRAE	HH+00	0000-1100 2200-1100 0000-1100 2200-1100 2300-1300 0000-1100 2200-1300 0000-1100 2200-1100	BANGKOK BRISBANE NADI SINGAPORE TOKYO Beijing	VTBBYPYX YBBBYPYX NFFNYPYX WSZZYPYM RJTDPYX ZBBBYPYX

			VTCT VTPB VTPH VTPM VTPO VTPP VTPT	CHIANG RAI/Chiang Rai Intl Airport PHETCHABUN PRACHUAP KHIRI KHAN/Huahin TAK/Mae Sot SUKHOTHAI PHITSANULOK TAK		2200-1100 2200-1100 2200-1100 2200-1100 2200-1500 2200-1100		
		SATH32	VTSB VTSC VTSE VTSF VTSG VTSM VTSR VTST VTSY	SURAT TANI NARATHIWAT CHUMPHON/Tab Gai NAKHON SI THAMMARAT KRABI SURAT THANI/Samui RANONG TRANG BATONG	HH+00	2200-1500 2200-1100 2300-1100 2200-1500 2200-1500 2200-1100 2200-1300 0000-1000	BANGKOK BRISBANE NADI SINGAPORE TOKYO Beijing	VTBBYPYX YBBBYPYX NFFNYPYX WSZZYPYM RJTDPYX ZBBBYPYX
		SATH33	VTUD VTUI VTUK VTUL VTUO VTUQ VTUU VTUV VTUW	UDON THANI SAKON NAKHON/Ban Khai KHON KAEN LOEI BURI RAM NAKHON RATCHASIMA UBON RATCHATHANI ROI ET NAKHON PHANOM	HH+00	2200-1500 2200-1500 2300-1400 2300-1400 2200-1200 2200-1300 2200-1400 0000-1400 2200-1400 2300-1400 2200-1400	BANGKOK BRISBANE NADI SINGAPORE TOKYO Beijing	VTBBYPYX YBBBYPYX NFFNYPYX WSZZYPYM RJTDPYX ZBBBYPYX

Amendment Proposal of Appendix B: Collection and Dissemination of TAF (FT) Bulletin

Table B : Collection and Dissemination of TAF (FT) Bulletins										
1		2						3		
ROC		TAF Bulletin						DISSEMINATION TO		
Name	CCCC	BUL No.	CCCC	Aerodrome	Filing time	Start of validity	TAF validity	RODB/ROC	AFTN Address	
Bangkok	VTBB	FTAE31	VTBD	BANGKOK/Don Mueang Intl Airport	0535	0600	30	BANGKOK	VTBBYPYX	
			VTBS	BANGKOK/Suvarnabhumi Intl Airport	1135	1200	30	BRISBANE	YBBBYPYX	
			VTBU	RAYONG/U-Taphao Intl Airport	1735	1800	24	NADI	NFFNYPYX	
			VTCC	CHIANG MAI/Chiang Mai Intl. Airport	2335	0000	30	SINGAPORE	WSZZPYM	
			VTCT	CHIANG RAI/Chiang Rai Intl Airport				24	Abu Dhabi	OMZZYPYX
			VTSG	KRABI				30	Bahrain	OBZZYPYX
			VTSP	PHUKET/Phuket Intl Airport				30	Beijing	ZBBBYPYX
			VTSS	SONGKHLA/Hat Yai Intl Airport				24	Beirut	OLLLYPYX
									Hong Kong	VHZZYPYX
									Jeddah	OEJDYPYX
						Karachi	OPZZYPYX			
						KualaLumpur	WMZZYPYR			
						Mumbai	VABBYPYX			
						Inchon	RKSIYPYX			
						Tehran	OIIIYPYX			
						Wellington	NZZZPYA			
		FTAE32	VDPP	PHNOM PENH	0535	0600	18(24)	BANGKOK	VTBBYPYX	
			VDSR	SIEM REAP	1135	1200	18(24)	BRISBANE	YBBBYPYX	
			VDSV	SIHANOUK	1735	1800	18(24)	NADI	NFFNYPYX	
			VGHS	HAZRAT SHAHJALAL INTL APT	2335	0000	30	SINGAPORE	WSZZPYM	
			VLVT	VIENTIANE (Wattay)			24	TOKYO	RJTDYPYX	
			VYMD	MANDALAY INTERNATIONAL*			24	Bahrain	OBZZYPYX	
			VYNT	NAYPYITAW INTERNATIONAL			24	Beijing	ZBBBYPYX	
			VYYY	YANGON INTERNATIONAL			24	Beirut	OLLLYPYX	
				*Issued 0500/1100				Hong Kong	VHZZYPYX	
								Jeddah	OEJDYPYX	
								Karachi	OPZZYPYX	

								KualaLumpur Mumbai Inchon Tehran Wellington	WMZZYPYR VABBYPYX RKSIYPYX OIIIYPYX NZZZYPYA
		FTAE33	VLLB VLLN VLPS VLSK	LUANG PRABANG LUANG NAMTHA PAKSE SAVANNAKHET	0535 1135 1735 2335	0600 1200 1800 0000	18-24 18-24 18-24 18-24	BANGKOK BRISBANE NADI SINGAPORE TOKYO	VTBBYPYX YBBBYPYX NFFNYPYX WSZZYPYM RJTDYPYX
								Bahrain Beijing Beirut Hong Kong Jeddah Karachi KualaLumpur Mumbai Inchon Tehran Wellington	OBZZYPYX ZBBBYPYX OLLLYPYX VHZZYPYX OEJDYPYX OPZZYPYX WMZZYPYR VABBYPYX RKSIYPYX OIIIYPYX NZZZYPYA
		FTAE34	VVCI VVCR VVCT VVDN VVNB VVPB VVPQ VVTS VVVD	CAT BI KHANH HOA/Cam Ranh Int'l CAN THO/Can Tho Int'l DA NANG HA NOI/Noi Bai HUE/Phu Bai KIEN GIANG/Phu Quoc Int'l HO CHI MINH/Tan Son Nhat Van Don Int'l	0535 1135 1735 2335	0600 1200 1800 0000	24 30 24 24 24 24 24 30 24	BANGKOK BRISBANE NADI SINGAPORE TOKYO Abu Dhabi Bahrain Beijing Beirut Hong Kong Jeddah Karachi KualaLumpur Mumbai	VTBBYPYX YBBBYPYX NFFNYPYX WSZZYPYM RJTDYPYX OMZZYPYX OBZZYPYX ZBBBYPYX OLLLYPYX VHZZYPYX OEJDYPYX OPZZYPYX WMZZYPYR VABBYPYX

								Inchon Tehran Wellington	RKSIYPYX OIIIYPYX NZZZYPYA
		FTTH31	VTBO VTCH VTCL VTCN VTCP VTCT VTPB VTPH VTPM VTPO VTPP VTPT	TRAT/Khao Sming MAE HONG SON LAMPANG NAN PHRAE CHIANG RAI/Chiang Rai Intl Airport PHETCHABUN PRACHUAP KHIRI KHAN/Huahin TAK/Mae Sot SUKHOTHA PHITSANULOK TAK	0535 1135 1735 2335	0600 1200 1800 0000	24 24 24 24 24 30 24 24 24 24 24 24	BANGKOK BRISBANE NADI SINGAPORE TOKYO Beijing	VTBBYPYX YBBYPYX NFFNYPYX WSZZPYM RJTDYPYX ZBBYPYX
		FTTH32	VTSB VTSC VTSE VTSF VTSG VTSH VTSM VTSR VTST VTSY	SURAT TANI NARATHIWAT CHUMPHON/Tab Gai NAKHON SI THAMMARAT KRABI SONGKHLA SURAT THANI/Samui RANONG TRANG BATONG	0535 1135 1735 2335	0600 1200 1800 0000	24 24 24 24 24 24 24 24 24 24	BANGKOK BRISBANE NADI SINGAPORE TOKYO Beijing	VTBBYPYX YBBYPYX NFFNYPYX WSZZPYM RJTDYPYX ZBBYPYX
		FTTH33	VTUD VTUI VTUK VTUL VTUO VTUQ VTUU VTUV VTUW	UDON THANI SAKON NAKHON/Ban Khai KHON KAEN LOEI BURI RAM NAKHON RATCHASIMA UBON RATCHATHANI ROI ET NAKHON PHANOM	0535 1135 1735 2335	0600 1200 1800 0000	24 24 24 24 24 24 24 24 24	BANGKOK BRISBANE NADI SINGAPORE TOKYO Beijing	VTBBYPYX YBBYPYX NFFNYPYX WSZZPYM RJTDYPYX ZBBYPYX

Attachment 2: Amendment Proposal of Appendix I: ROBEX Focal Point

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