

International Civil Aviation Organization

ICAO

WORKING PAPER (WP/12)

ASIA AND PACIFIC (APAC) TWENTY-FOURTH
MEETING OF THE METEOROLOGICAL
INFORMATION EXCHANGE WORKING
GROUP (MET/IE WG/24)

Nadi, Fiji, 21 to 24 April 2026

Agenda Item 3: Quality Control, Monitoring, and Management of Meteorological Information Exchange**INVESTIGATION AND RECTIFICATION OF LOW OPMET PERFORMANCE INDICES FOR SINGAPORE**

(Presented by Singapore)

SUMMARY

This paper presents the investigation and rectification by Singapore to resolve the low OPMET Performance Indices issue.

1. INTRODUCTION

1.1 The Ad Hoc Group on Deficiencies presented the MET Deficiencies Review during MET SG/29 based on the outcomes of the 2024 ICAO Asia Pacific (APAC) Regional SIGMET Test and 2024 TAF & METAR APAC Performance Indices (PI) [Ref: [MET SG/29 WP/07](#)].

1.2 A suggestion from the review was for States to investigate the reason for the lower than required statistics and take appropriate actions needed ahead of the METAR & TAF monitoring activity planned for November 2025.

2. DISCUSSIONIssues identified and rectifications taken

2.1 Based on the 2024 OPMET PI Monitoring result, Singapore, among thirty other states in APAC, was identified as not meeting the availability requirement of 95% for METAR. Immediately after the meeting, Singapore investigated the cause and found that the deficiency arises from two of Singapore's aerodromes, namely Seletar (WSSL) and Paya Lebar (WSAP). These two aerodromes provided routine observations through METAR at hourly basis. However, under the ROBEX handbook bulletin schema, these two aerodromes are wrongly indicated as providing observations every half hourly. This mismatch resulted in both Seletar and Paya Lebar can at best achieve 50% of expected availability (i.e. 24 observations out of expected 48 observations daily at best). This eventually resulted in Singapore not meeting the 95% requirement for METAR availability in 2024.

2.2 To resolve this issue, Singapore has taken the following rectification steps:

2.2.1 Put up a request to re-group Seletar and Paya Lebar to an appropriate bulletin for MET information exchange. As Malaysia oversees METAR bulletin compilation in the region, Singapore liaises with Malaysia regarding our intention to re-group Seletar and

Paya Lebar to an hourly bulletin. Singapore is grateful to Malaysia for acceding to our request to regroup Seletar and Paya Lebar from METAR bulletin SAMS31 to SAMS38. The arrangement is also cascaded to the IWXXM METAR bulletins, with Seletar and Paya Lebar IWXXM METAR transferred from LAMS31 to LAMS38. These changes took effect from 30 October 2025 0600UTC.

2.2.2 Follow up with the necessary ICAO administrative procedure via a MET Notification (METNO) to the APAC region so that the relevant parties got notified and the relevant guidance material can be updated. The METNO issued can be found under Appendix A of this paper and the proposed updates to the ROBEX handbook can be found under Appendix B.

2.3 The latest METAR & TAF monitoring activity took place in November 2025, with the above rectifications in place. Singapore is pleased to inform the meeting the issue of METAR availability below the required threshold has since been rectified. Moving forward, Singapore is confident the PI score for METAR availability will be met and would like the Ad Hoc group on Deficiencies to consider removing Singapore from the list of deficiencies.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) consider removing Singapore from the list of deficiencies; and
- c) review and consider the proposed updates to the ROBEX Handbook

APPENDIX A: METNO Message Issued

NOXX99 WSSS YYGGgg
METNO APAC OPMET 251030
RMRPT SAMS31 WMKK WSSL
RMRPT SAMS31 WMKK WSAP
ADDRPT SAMS38 WMKK WSSL
ADDRPT SAMS38 WMKK WSAP
END=

MET/IE WG/24
Appendix B to WP/12

APPENDIX B: Proposed updates to the 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
ASIA/PAC Region								
Kuala Lumpur	WMKK	SAMS31	WBGG	KUCHING/Intl	HH+00/30		BANGKOK	VTBBYPYX
			WBGK	KOTA KINABALU/Intl	HH+00/30		BRISBANE	YBBBYPYX
			WBSB	BRUNEI/Intl	HH+00/30		NADI	NFFNYPYX
			WMKK	SEPANG/KL International Airport	HH+00/30		SINGAPORE	WSZZYPYM
			WMKP	PENANG/Intl	HH+00/30		TOKYO	RJTDYPYX
			WSSS	SINGAPORE/Changi	HH+00/30			
			WSSL	SELETAR	HH+00/30		Beijing	ZBBBYPYX
			WMSA	SUBANG/Sultan Abdul Aziz Shah	HH+00/30		Colombo	VCCCPYX
			WSAP	PAYA LEBAR (RSAF)	HH+00/30		Hong Kong	VHZZYPYX
							Jakarta	WIZZMBMB
							Manila	RPLLYPYX
							Mumbai	VABBYPYX
							Incheon	RKSIYPYX
							Wellington	NZZZYPYX
		SAMS38	WGBB	BINTULU	HH+00		BANGKOK	VTBBYPYX
			WBGR	MIRI	HH+00		BRISBANE	YBBBYPYX
			WGBS	SIBU	HH+00		NADI	NFFNYPYX
			WBKL	LABUAN	HH+00		SINGAPORE	WSZZYPYM
			WBKS	SANDAKAN	HH+00		TOKYO	RJTDYPYX
			WBKW	TAWAU	HH+00			
			WMKD	KUANTAN	HH+00		Beijing	ZBBBYPYX
			WMKL	PULAU LANGKAW/Intl	HH+00		Colombo	VCCCPYX
			WMKM	MALACCA	HH+00		Hong Kong	VHZZYPYX
			WMKJ	JOHOR BAHRU/Sultan Ismail	HH+00		Jakarta	WIZZMBMB
			WSSL	SELETAR	HH+00		Manila	RPLLYPYX
			WSAP	PAYA LEBAR (RSAF)	HH+00		Mumbai	VABBYPYX
							Incheon	RKSIYPYX
							Wellington	NZZZYPYX