

International Civil Aviation Organization

ICAO

WORKING PAPER (WP/06)**ICAO Asia and Pacific (APAC)**Twenty-Eighth Meeting of the Meteorology Sub-Group
(MET SG/28)

Bangkok, Thailand, 8 to 12 July 2024

Agenda Item 3: Air navigation deficiencies**REVIEW APANPIRG AIR NAVIGATION DEFICIENCIES**

(Presented by the Secretariat)

SUMMARY

This paper reviews air navigation deficiencies in the Meteorology (MET) field across seven APAC States, as identified by APANPIRG/35. It highlights gaps in aerodrome observations, SIGMET services, volcanic ash advisories, and WAFS forecasts. The meeting is invited to assess the current list of deficiencies, update corrective action plans, and strengthen coordination through designated focal points. Regional efforts, including support from the PIAWS Panel and development of guidance materials, aim to facilitate resolution and enhance compliance with ICAO SARPs to improve aviation safety and efficiency.

1. INTRODUCTION

1.1 The Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) defines air navigation deficiencies as situations where facilities, services, or procedures fail to meet the requirements of the regional Air Navigation Plan (ANP) approved by the ICAO Council or do not comply with ICAO Standards and Recommended Practices (SARPs). Such deficiencies negatively impact the safety, regularity, or efficiency of international civil aviation operations.

1.2 This paper focuses on deficiencies in the field of Meteorology (MET) as recorded by APANPIRG, particularly those affecting MET services and facilities in several Asia/Pacific (APAC) States. The meeting is invited to review the current list of open MET deficiencies and provide updates on corrective action plans (CAPs) aimed at resolving these issues.

1.3 The deficiencies, as reviewed during the Thirty-fifth Meeting of APANPIRG (APANPIRG/35), include gaps in aerodrome observations, SIGMET services, volcanic ash advisories, and WAFS forecast availability. These issues are being addressed through regional coordination efforts, including support from the Pacific Islands Aviation Weather Services (PIAWS) Panel and the development of guidance materials such as the MET Deficiency Identification Guide.

1.4 The meeting is further invited to consider actions to strengthen follow-up and implementation, including updating the APANPIRG Deficiency Database, submitting progress reports, and ensuring effective coordination through designated focal points. These efforts are essential for MET services across the APAC Region to support the safety, regularity, and efficiency of international civil aviation operations.

2. DISCUSSION

2.1 The current list of air navigation deficiencies, as reviewed by the APANPIRG/35 [Conclusion APANPIRG/35/13 – Update of information in APANPIRG Air Navigation Deficiencies Reporting Form, refers], includes twelve (12) (open) deficiencies concerning MET facilities and services provided in seven (7) APAC States.

2.2 A copy of the APANPIRG Reporting Form on Air Navigation Deficiencies in the MET field, including detailed notes, is provided in **Appendix A**. The deficiencies concerning MET facilities and services are also listed in Table 1 below:

Table 1: APANPIRG air navigation deficiencies in the MET field

MET facilities and services	Asia/Pacific States	Def. ID	Status
Aerodrome meteorological observations or reports	Kiribati	AP-MET-02	open
	Nauru	AP-MET-21	open
Meteorological Watch Office (MWO) or SIGMET information	Democratic People's Republic of Korea	AP-MET-16	open
	Nauru	AP-MET-24	open
	Nepal	AP-MET-14	open
	Papua New Guinea	AP-MET-08	open
	Papua New Guinea	AP-MET-22	open
Volcanic ash/activity information	Papua New Guinea	AP-MET-04	open
	Tonga	AP-MET-17	open
WAFS forecasts or flight briefings	Kiribati	AP-MET-18	open
	Nauru	AP-MET-19	open
	Solomon Islands	AP-MET-20	open

2.3 In reviewing the MET SG progress report, APANPIRG/35 noted that the PIAWS Panel is actively coordinating efforts to address air navigation deficiencies in Pacific States. APANPIRG/35 noted the need for technical assistance to help Pacific Small Island Developing States (PSIDS) understand and determine requirements for WAFS forecasts, particularly concerning the deficiencies (Def. ID) AP-MET-18, AP-MET-19, and AP-MET-20.

2.4 APANPIRG/35 also noted the MET SG/28 request for the Secretariat to prepare documentation to support APANPIRG's assessment of SIGMET service deficiencies in Afghanistan. Additionally, APANPIRG/35 noted that the designated ad hoc group is developing the MET Deficiency Identification Guide to assist States in identifying and resolving such deficiencies.

2.5 In line with its Terms of Reference, APANPIRG continues to monitor the implementation of the APAC ANP through its subgroups. This process supports the identification and resolution of deficiencies using the ICAO Council's approved methodology and facilitates the development of CAPs by States and Administrations where needed.

2.6 APANPIRG/35 endorsed the current list of Air Navigation Deficiencies. It adopted Conclusion APANPIRG/35/13, requesting ICAO to update the Deficiency Database based on the information provided in Appendices A to D of the APANPIRG/35 Report on Agenda Item 4.

2.7 States and Administrations are urged to develop CAPs with clear target dates to address identified deficiencies. Progress should be reported to the ICAO APAC Office using the Reporting Form for MET-related deficiencies, as provided in **Appendix A**.

2.8 States are further encouraged to update the contact details of their designated Focal Points (**Appendix B**) to support coordination efforts. Detailed reports on resolved deficiencies should be submitted to APANPIRG Sub-groups in 2025.

2.9 The APANPIRG Chairperson encouraged participants to brief their respective Director Generals on the identified deficiencies and emphasized the importance of prioritizing their resolution. Although a virtual meeting with Director Generals was proposed for January 2025, it could not be convened. These issues are now expected to be discussed during the upcoming APANPIRG/35 Midyear Review Meeting on 28 August 2025.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Note the information contained in this paper;
- b) Review the List of (open) APANPIRG air navigation deficiencies in the MET field in **Appendix A** and provide updates, as necessary, especially for the CAPs to rectify the deficiencies; and
- c) Discuss any relevant matters as appropriate.

APPENDIX A

APANPIRG Reporting Form on Air Navigation Deficiencies in the MET Field (extracted from Appendix D to the APANPIRG/35 Report on Agenda Item 4)

Editorial Note: Updates show deleted text using strikeout (~~text to be deleted~~) and added text with grey shading (**text to be inserted**).

REPORTING FORM ON (OPEN) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION								
Identification		Deficiencies			Corrective action			
Requirements	States/ Facilities (Index No.)	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action *
MWO and SIGMET service (Annex 3: Chapter 3, 3.4 and Chapter 7)	Democratic Peoples' Republic of Korea (DPRK) (AP-MET-16)	Requirements for MWO and SIGMET service not established for Pyongyang FIR	2008	Reported by ICAO Regional Office mission	Establish MWO to provide required service, including SIGMET information for Phnom Penh FIR. See notes below for more information.	GACA, Democratic Peoples' Republic of Korea	TBC	A
Meteorological observations and reports. (Annex 3: Chapter 4)	Kiribati (AP-MET-02)	METAR from Kiribati not available on regular basis.	1998	Reported by airlines	Equipment to be installed and arrangements to be made for regular observations and reports, including: training of personnel; maintenance of equipment; calibration and verification of meteorological observations; and proper/secure transmission of data. See notes below for more information.	State designated MET authority	TBC	A
Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9)	Kiribati (AP-MET-18)	WAFC forecasts not available for inclusion in flight briefings and documentation	2008	Reported by TCB CAEMSA-SP Technical Expert	Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCs. See notes below for more information.	State designated MET authority	TBC	U

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REPORTING FORM ON (OPEN) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION								
Identification		Deficiencies			Corrective action			
Requirements	States/ Facilities (Index No.)	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action *
Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9)	Nauru (AP-MET-19)	WAFC forecasts not available for inclusion in flight briefings and documentation	2008	Reported by TCB CAEMSA-SP Technical Expert	Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCs. See notes below for more information.	State designated MET authority	TBC	U
Meteorological observations and reports. (Annex 3: Chapter 4)	Nauru (AP-MET-21)	METAR/SPECI service not provided	2008	Reported by TCB CAEMSA-SP Technical Expert	Equipment to be installed and arrangements to be made for regular observations and reports, including: training of personnel; maintenance of equipment; calibration and verification of meteorological observations; and proper/secure transmission of data. See notes below for more information.	State designated MET authority	TBC	U

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REPORTING FORM ON (OPEN) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION								
Identification		Deficiencies			Corrective action			
Requirements	States/ Facilities (Index No.)	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action *
Provision of SIGMET information (Annex 3, Chapter 7)	Nauru (AP-MET-24)	Lack of SIGMET issued for the Nauru FIR.	Sep 2011	IATA deemed this situation unsafe and unacceptable to airline operations.	Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information.	State designated MET authority	TBC	U
Provision of SIGMET information (Annex 3: Chapter 7)	Nepal (AP-MET-14)	Requirements for issuance and dissemination of SIGMET information for Kathmandu FIR have not been fully implemented	2000		Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information.	State designated MET authority	TBC	A
Reporting of information on volcanic eruptions to civil aviation units. (Annex 3, 3.6, 4.8)	Papua New Guinea (AP-MET-04)	Information on volcanic activity not provided regularly to ATS units, MWOs and VAACs.	1995	Observed by States concerned. Reported at the WMO/ICAO Workshop on Volcanic Ash Hazards (Darwin, 1995)	Establish arrangements for State volcano observatories to send the required volcano observation information as quickly as practicable to the associated ACC/FIC, MWO and VAAC. See notes below for more information.	Rabaul Volcano Observatory, NWS and ASL of Papua New Guinea	TBC	A
Provision of SIGMET for volcanic ash (Annex 3: Chapter 7)	Papua New Guinea (AP-MET-08)	Requirements for issuance and proper dissemination of SIGMET for volcanic ash have not been fully implemented	Dec 2003	Reported by airlines, noted by Volcanic Ash Advisory Centres and confirmed by ICAO mission	Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of volcanic ash. See notes below for more information.	NWS of Papua New Guinea	TBC	U
Provision of SIGMET information (Annex 3, Chapter 7)	Papua New Guinea (AP-MET-22)	Lack of SIGMET issued for the Port Moresby FIR.	Sep 2011	IATA deemed this situation unsafe and unacceptable to airline operations.	Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information.	State designated MET authority	TBC	U

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REPORTING FORM ON (OPEN) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION								
Identification		Deficiencies			Corrective action			
Requirements	States/ Facilities (Index No.)	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action *
Meteorological information for operators and flight crew members, including forecasts provided by the WAFCS (Annex 3: Chapter 9)	Solomon Islands (AP-MET-20)	WAFCS forecasts not available for inclusion in flight briefings and documentation	2008	Reported by TCB CAEMSA-SP Technical Expert	Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCS. See notes below for more information.	State designated MET authority	TBC	U
Reporting of information on volcanic eruptions to civil aviation units. (Annex 3: 3.6, 4.8)	Tonga (AP-MET-17)	Information on volcanic activity not provided regularly to ATS units, MWOs and VAACs	2008	Reported by TCB CAEMSA-SP technical expert	Establish arrangements for State volcano observatories to send the required volcano observation information as quickly as practicable to the associated ACC/FIC, MWO and VAAC. See notes below for more information.	MOI and MEIDECC	TBC	U

NOTES ON THE (OPEN AND CLOSED) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION				
Index No.	State	Update Date	NOTES ON OPEN AND CLOSED DEFICIENCIES	Status
AP-MET-01	Solomon Islands	December 2020	Removed from the open List; APANPIRG/31 Conclusion 31/19, refers.	Closed
AP-MET-02	Kiribati	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> Kiribati is now delivering observations regularly but is continuing work on upgrading its observing facility before providing resolution information. 	Open
		September 2017	APANPIRG/28 noted that Kiribati should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
AP-MET-03	Indonesia	September 2017	Removed from the open List, APANPIRG/28 Conclusion 28/29 refers.	Closed
AP-MET-04	Papua New Guinea	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru's behalf). 	Open
		November 2022	APANPIRG/33 noted MET SG/26 recommended that Papua New Guinea: <ul style="list-style-type: none"> Conduct additional corrective actions, including seeking confirmation from the recipient operational units and providing evidence of the relevant established procedures; and Submit an official report to ICAO providing complete details of the action taken. 	

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NOTES ON THE (OPEN AND CLOSED) AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION				
Index No.	State	Update Date	NOTES ON OPEN AND CLOSED DEFICIENCIES	Status
		September 2017	APANPIRG/28 noted that Papua New Guinea should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
AP-MET-05	–	–	This Index No. is not used.	Closed
AP-MET-06	Indonesia	September 2017	Removed from the open List, APANPIRG/28 Conclusion 28/29 refers.	Closed
AP-MET-07	Philippines	November 2019	Removed from the open List, Conclusion APANPIRG/30/19, refers.	Closed
AP-MET-08	Papua New Guinea	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru's behalf). 	Open
		September 2017	APANPIRG/28 noted that Papua New Guinea should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
AP-MET-09	Cambodia	September 2018	Removed from the open List, APANPIRG/29 Decision 29/23 refers	Closed
AP-MET-10	–	–	This Index No. is not used.	Closed
AP-MET-11	Cambodia	September 2018	Removed from the open List, APANPIRG/29 Decision 29/24 refers	Closed
AP-MET-12	Lao PDR	September 2018	Removed from the open List, APANPIRG/29 Decision 29/24 refers	Closed
AP-MET-13	–	–	This Index No. is not used.	Closed
AP-MET-14	Nepal	December 2023	APANPIRG/34 considered the deficiency could be removed from the Open List subject to receiving confirmation of the regular dissemination of the Kathmandu FIR SIGMET information in IWXXM form (in addition to TAC form)	Open
		September 2023	MET SG/27 noted that: <ul style="list-style-type: none"> Nepal made significant progress towards rectification of the deficiency, including confirmation of the regular issuance of SIGMET information in 2022, successful participation in the annual APAC regional SIGMET tests, coordination of SIGMET with neighbouring MWOs, and validation from users of receipt of the SIGMET information. Nepal was not disseminating SIGMET information in the IWXXM form in addition to the dissemination of SIGMET information in the TAC form, as required by Annex 3. Nepal was in the process of procuring a solution to provide SIGMET in IWXXM form. APANPIRG may review the status of the deficiency and remove it from the Open List, subject to Nepal confirming in writing to ICAO, and validated by RODB Bangkok, that the regular dissemination of SIGMET information in IWXXM form in addition to TAC form. 	
		September 2017	APANPIRG/28 noted that Nepal should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	

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NOTES ON THE <u>(OPEN AND CLOSED)</u> AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION				
Index No.	State	Update Date	NOTES ON <u>OPEN</u> AND <u>CLOSED</u> DEFICIENCIES	Status
AP-MET-15	–	–	This Index No. is not used.	Closed
AP-MET-16	Democratic People's Republic of Korea	September 2017	APANPIRG/28 noted that DPRK should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	Open
AP-MET-17	Tonga	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> • Tonga is developing an MOU between organisations involved in providing and sharing volcanic activity information, which includes the procedures to be followed. 	Open
		November 2022	APANPIRG/33 noted MET SG/26 recommended that Tonga: <ul style="list-style-type: none"> • Conduct additional corrective actions, including seeking confirmation from the recipient operational units and providing evidence of the relevant established procedures; and • Submit an official report to ICAO providing complete details of the action taken. 	
		September 2017	APANPIRG/28 noted that: <ul style="list-style-type: none"> • Removal of the Deficiency from the open List is subject to the concurrence of the ATS units, MWOs and VAACs concerned that the Deficiency is resolved. 	
		June 2018	MET SG/22 noted that: <ul style="list-style-type: none"> • VAAC Wellington was coordinating with Tonga on the validation of corrective action taken to resolve the Deficiency. 	
		29 May 2017	MOI, Civil Aviation Division, advised that: <ul style="list-style-type: none"> • Relevant operating procedures implemented in the units concerned and case studies of real volcanic events presented as evidence of the State volcano observatory's issuance of the required volcano observation information. 	
AP-MET-18	Kiribati	10 May 2013	Ministry of Infrastructure (MOI), Civil Aviation Division, advised that: <ul style="list-style-type: none"> • MOU established between the national authority providing volcano monitoring (Ministry of Lands, Environment, Climate Change and Natural Resources – MLECCNR) and the national authority providing meteorological service for international air navigation (MOI) for the reporting of volcanic activity to the associated ACCs, MWOs and VAACs in accordance with the relevant ICAO SARPs. 	Open
		September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> • Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision. 	
		September 2017	APANPIRG/28 noted that Kiribati should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
AP-MET-19	Nauru	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> • Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision. 	Open

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NOTES ON THE <u>(OPEN AND CLOSED)</u> AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION				
Index No.	State	Update Date	NOTES ON <u>OPEN</u> AND <u>CLOSED</u> DEFICIENCIES	Status
		September 2017	APANPIRG/28 noted that Nauru should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
AP-MET-20	Solomon Islands	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision. 	Open
		September 2017	APANPIRG/28 noted that Solomon Islands should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
		June 2019	MET SG/23 requested the Secretary in conjunction with support from other States to provide Solomon Islands with assistance in preparing the full report on rectification of the Deficiency.	
AP-MET-21	Nauru	September 2017	APANPIRG/28 noted that Nauru should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	Open
AP-MET-22	Papua New Guinea	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru's behalf). 	Open
		September 2017	APANPIRG/28 noted that Papua New Guinea should: <ul style="list-style-type: none"> Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
AP-MET-23	Solomon Islands	November 2022	Removed from the open List; refer to: <ul style="list-style-type: none"> Conclusion APANPIRG/33/14 – <i>Update of information in APANPIRG Air Navigation Deficiencies Reporting Form</i>; APANPIRG/33 WP/14 – <i>STATUS OF AIR NAVIGATION DEFICIENCIES IN THE ASIA/PAC REGION</i>; APANPIRG/33 WP/13 – <i>METEOROLOGY SUB-GROUP (MET SG/26) REPORT</i>; and APANPIRG/33 IP/08 – <i>RECTIFICATION OF APANPIRG AN DEFICIENCY AP-MET-23</i> 	Closed
		October 2021	MET SG/25 requested the Solomon Islands, with assistance from its partner States, to conduct additional corrective action to enable the MET SG to confirm that Solomon Islands had fully resolved the Deficiency; maintain a log of all SIGMETs issued over at least one month to capture the operational WC-, WS- and WV-SIGMETs, plus any test WV-SIGMETs; pass the details [of the log] to the ad hoc group [on AN Deficiencies] to compare against SIGMETs received by RODB Brisbane [MET SG/25, Action No. 25/10]. Subject to Solomon Islands demonstrating resolution of the issues concerning content, format and timeliness of SIGMET information (as discussed in MET SG/25, WP/12) and sustainable provision of ICAO-compliant SIGMET service, MET SG would support the removal of Deficiency AP-MET-23 from the APANPIRG open list. Therefore, to facilitate the removal of the Deficiency from the open List, MET SG/25 requested the Secretariat coordinate with the Solomon Islands to report the resolution of the Deficiency to APANPIRG [MET SG/25, Action No. 25/11].	
		June 2019	MET SG/23 requested the Secretary in conjunction with support from other States to provide Solomon Islands with assistance in preparing the full report on rectification of the Deficiency.	

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NOTES ON THE <u>(OPEN AND CLOSED)</u> AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PAC REGION				
Index No.	State	Update Date	NOTES ON <u>OPEN</u> AND <u>CLOSED</u> DEFICIENCIES	Status
		September 2017	APANPIRG/28 noted that Solomon Islands should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	
AP-MET-24	Nauru	September 2023	MET SG/27 was informed that: <ul style="list-style-type: none"> • VAACs Darwin and Wellington are planning a series of exercises in the next six months with the Papua New Guinea (PNG) State Volcano Observatory and MWO to address the PNG volcanic activity information and SIGMET deficiencies, along with the Nauru SIGMET deficiency (due to PNG providing SIGMETs on Nauru's behalf). 	Open
		September 2017	APANPIRG/28 noted that Nauru should: <ul style="list-style-type: none"> • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the Deficiency. 	

Acronyms/Abbreviations/Definitions (used in this document)

ACC	— Area control centre
ASL	— Air Services Ltd.
ATS	— Air traffic services
CAEMSA-SP	— Cooperative Agreement for the Enhancement of Meteorological Services to Aviation - South Pacific
CAP	— Corrective action plan
FIC	— Flight information centre
FIR	— Flight information region
GACA	— General Administration of Civil Aviation
IATA	— International Air Transport Association
MEIDECC	— Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communication
MET	— Meteorological
METAR	— Aerodrome routine meteorological report (<i>in meteorological code</i>)
MWO	— Meteorological watch office
NWS	— National Weather Service
SIGMET	— Information issued by a meteorological watch office concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations
SPECI	— Aerodrome special meteorological report (<i>in meteorological code</i>)
TBC	— To be confirmed
TCB	— Technical Cooperation Bureau (of ICAO)
VAAC	— Volcanic ash advisory centre
WAFC	— World area forecast centre

— END OF SECTION —

APPENDIX B

LIST OF FOCAL POINT FOR AIR NAVIGATION DEFICIENCIES (extracted from Appendix E to the APANPIRG/35 Report on Agenda Item 4)

STATE/ADMINISTRATION	FOCAL CONTACT PERSON
Afghanistan	Name: Mr. Mohammad Hamid Amiry Designation: Aerodrome Certification Inspector Address: Ministry of Transport & Aviation (MoTA) Tel: +0786888011 Email: mhamidamiry@gmail.com ;
Australia	Name: Mr. Chris Kumar Designation: ATS Specialist Lead Address: Airservices Australia Tel: +61 3 8340 8270 Email: chris.kumar@airservicesaustralia.com ;
Bangladesh	Name: Ms. Sabera Rahman Designation: Deputy Director (ATM) Address: Civil Aviation Authority of Bangladesh Air Traffic Management Division Tel: – Fax: – Email: sabera_atm@caab.gov.bd ;
Bhutan	Name: Mr. Pema Tashi Designation: Superintendent, ANS Address: Bhutan Civil Aviation Authority Tel: +975 8271912 Fax: 00975 8 271944 Email: ptashi@bcaa.gov.bt ;
<i>Alternate</i>	Name: Ms. Devi Maya Adikari Designation: COM/NAV Officer Address: Department of Air Transport, Paro Tel: +975 8 271511 Fax: +975 8 271407 Email: dmadhikari@doat.gov.bt ;
Brunei Darussalam	Name: Mr. Mohamad Fauzi bin Mohamad Sidek Designation: Acting Deputy Director of Civil Aviation (Regulator) Address: Department of Civil Aviation, Brunei Darussalam Tel: +673 2330142 Mob: +673 8168909 Email: fauzi.sidek@dca.gov.bn ; ddca.regulatory@dca.gov.bn ;
Brunei Darussalam <i>Alternate</i>	Name: Mr. Pengiran Rasman bin Pengiran Sulaiman Designation: Aerodrome Inspector Address: Department of Civil Aviation, Brunei Darussalam Tel: +673 2330142

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STATE/ADMINISTRATION	FOCAL CONTACT PERSON
	Mob: +673 8854714 Email: rasman.sulaiman@dca.gov.bn ;
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Cambodia	Name: Mr. Chhun Sivorn Designation: Director of Air Navigation Standards and Safety Department Address: State Secretariat of Civil Aviation Tel: +855 23 224 258 Mob: +755 12 866 659 Email: ans.ssca@gmail.com ; ans.ssca@civilaviation.gov.kh ;
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