

International Civil Aviation Organization



ICAO

WORKING PAPER (WP/04)

ICAO Asia and Pacific (APAC)

**Fourteenth Meeting of the Meteorological Requirements
Working Group (MET/R WG/14)**

Bangkok, Thailand, 28 April to 2 May 2025

Agenda Item 2: Review of follow-up action from previous meetings

FOLLOW-UP ACTION FROM APANPIRG/35

(Presented by the Secretariat)

SUMMARY

This paper presents outcomes from the Thirty-fifth Meeting of the Asia and Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/35), which are of direct relevance to the work plan of the Meteorological Requirements Working Group (MET/R WG), and invites the meeting to consider further actions for the MET/R WG, as necessary, to support the follow-up action on the APANPIRG/35 outcomes.

1. INTRODUCTION

1.1 Outcomes from the Thirty-Fifth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/35), held in the ICAO Asia and Pacific Office, Bangkok, Thailand from 25 to 27 November 2024, included, in total, eleven (11) Conclusions, which deal with matters that require the attention of States or actions by ICAO, and two (2) Decisions, which deal with the internal working arrangements of the APANPIRG and its contributory bodies.

1.2 The meeting will review the APANPIRG/35 outcomes that are directly relevant to the work plan of the Meteorological Requirements Working Group (MET/R WG) and consider further actions for the MET/R WG, as necessary, to support the follow-up action on the outcomes from APANPIRG/35.

2. DISCUSSION

APANPIRG/35 – Conclusions and Decisions

2.1 The APANPIRG/35 outcomes of direct relevance to the work plan of the MET/R WG, include one (1) Conclusion and one (1) Decision:

- Conclusion 35/13 – *Update of information in APANPIRG Air Navigation Deficiencies Reporting Form*
- Decision 35/11 – *Additional Secretariat Support*

2.2 The status of follow-up action on the above Conclusion and Decision adopted by APANPIRG/35 is indicated in **Appendix A** to this paper.

2.3 Supplementary information to Conclusion 35/13 – *Update of information in APANPIRG Air Navigation Deficiencies Reporting Form* is provided in **Appendix B** (APANPIRG Reporting Form on Air Navigation Deficiencies in the MET Field) and **Appendix C** (List of Focal Point for Air Navigation Deficiencies).

3. ACTION BY THE MEETING

3.1 This paper invites the meeting to:

- a) Review the APANPIRG/35 outcomes in this paper; and
- b) Consider further actions for the MET/R WG, as necessary, to support the follow-up action on the APANPIRG/35 outcomes.

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Appendix A

APPENDIX A

APANPIRG/35 Conclusions and Decisions (extracted from ATTACHMENT 5 to the APANPIRG/35 Report)

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date	Status
(1)	(2)	(3)	(4)	(5)	(6)	(7)
...						
D 35/11 A & B	Additional Secretariat Support	That, the APANPIRG request ICAO seek additional support for the ICAO RO Met through: a) secondment of an administration resource; b) updating the role location requirements allowing the secondee to work remotely to ICAO APAC Office (i.e. in their home State); and/or c) seeking additional administration support within ICAO.	ICAO RO	Revised secondment opportunity	February 2025	IN PROGRESS [Note: additional ENV Officer recruited on 1-yr secondment in Nov 2024; and recruitment of additional, fixed-term ENV and Implementation Support Officer advertised on 26 Feb 2025, Job ID: 24509]
...						
C 35/13 A & B	Update of information in APANPIRG Air Navigation Deficiencies Reporting Form	That, 1) ICAO to update the APANPIRG Air Navigation Deficiency Database to reflect the information as presented in Appendices A - D to the to the Report on Agenda Item 4. 2) States/Administrations be urged to: a) establish action plan with defined target dates for resolution of deficiencies, update the status on the corrective action taken and report the progress to the ICAO APAC Office in the Reporting Form of Air Navigation Deficiencies identified in ATM and Airspace Safety, AOP, CNS and MET fields as detailed in Appendices A to D to the Report on Agenda Item 4; and	ICAO RO APAC States and Administrations	State Letter Action in accordance with the Conclusion.	February 2025	IN PROGRESS

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date	Status
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		b) update contact details of a Focal Point (Appendix E) to coordinate actions to resolve the Deficiencies.				

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APPENDIX B

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

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)	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
Meteorological information for operators and flight crew members, including forecasts provided by the WAFCS (Annex 3: Chapter 9)	Nauru (AP-MET-19)	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
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: 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: - 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: 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: - 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: • 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: • 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: • 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: • 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: • 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 (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-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: • 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: • 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: • 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: • 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: • 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: • 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: • 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: • Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision.	
AP-MET-19	Nauru	September 2017	APANPIRG/28 noted that Kiribati should: • 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
		September 2023	MET SG/27 was informed that: • Kiribati, Nauru and Solomon Islands are working with their local users to determine whether there is any requirement for local WAFS information provision.	

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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 Nauru should: • 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: • 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: • 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: • 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: • 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: • 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: • 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].	

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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
		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.	
		September 2017	APANPIRG/28 noted that Solomon Islands should: • 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: • 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: • 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)

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Acronyms/Abbreviations/Definitions (used in this document)

VAAC — Volcanic ash advisory centre
WAFC — World area forecast centre

— END OF SECTION —

APPENDIX C

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

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STATE/ADMINISTRATION	FOCAL CONTACT PERSON
	Address: Department of Civil Aviation, Brunei Darussalam Tel: +673 2330142 Mob: +673 8854714 Email: rasman.sulaiman@dca.gov.bn ;
	Name: Ms. Norhidayah Haji Ismail Designation: Air Traffic Control Officer Address: Department of Civil Aviation, Brunei Darussalam Tel: +673 2330142 Mob: +673 883 4614 Email: norhidayah.ismail@civil-aviation.gov.bn ;
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.scca@gmail.com ; ans.scca@civilaviation.gov.kh ;
China	Name: Ms. Zhang Ying Designation: Engineer of AirSpace Management Division Address: Air Traffic Management Bureau, CAAC Tel: +86 (10) 8778 6837 Fax: +86 (10) 2778 6830 Email: zhangying@atmb.net.cn ;
Hong Kong, China	Name: Ms. Erin YY Siu Designation: Senior Safety Manager Address: 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong Tel: +852 2910 6442 Fax: +852 2910 0186 Email: eyysiu@cad.gov.hk ;
Macao, China	Name: —
<i>Alternate</i>	Name: Mr. Lam Tat Ming Designation: Director of Airport Infrastructure & Air Navigation Address: Civil Aviation Authority of Macao Alameda Dr. Carlos D'Assumpção, 336-342, Centro Comercial Cheng Feng, 18 Andar, Macao, China Tel: +853 2851 1213 Fax: +853 2833 8089 Email: taftlam@aacm.gov.mo ;
Macao, China <i>Alternate</i>	Name: Mr. Lo Veng Tong Designation: Safety Officer of Airport Infrastructure & Air Navigation Address: Civil Aviation Authority of Macao Tel: +853 8796 4132

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STATE/ADMINISTRATION	FOCAL CONTACT PERSON
	Fax: +853 2833 8089 Email: freemanlo@aacm.gov.mo ;
Fiji Islands	Name: Ms. Alisi Namoro Designation: Executive Manager Ground Safety Address: Civil Aviation Authority of the Fiji Islands Tel: +679 8923155 Mob: +679 9984498 Email: emgs@caaf.org.fj ;
India	Name: Mr. A. P. Gajbe Designation: General Manager (ATM) Address: Directorate of Air Traffic Management Airports Authority of India Safdarjung Airport, New Delhi -110003 Tel: +91 (11) 2465 2236 Email: anandraopg@aai.aero ;
Indonesia	Name: Mr. Wahyudi Nugroho Designation: Head of Standardization of Air Navigation Section Address: Directorate General of Civil Aviation, Ministry of Transportation Email: wahyudinugroho2012@gmail.com ;
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