

INTERNATIONAL CIVIL AVIATION ORGANIZATION



**REPORT OF THE SIXTH MEETING OF THE ASIA/PACIFIC REGIONAL
SEARCH AND RESCUE WORK GROUP
(APSAR/WG/6)**

BANGKOK, THAILAND, 03 – 06 MAY 2021

The views expressed in this Report should be taken as those of the
Meeting and not the Organization

Approved by the Meeting
and published by the ICAO Asia and Pacific Office, Bangkok

APSAR/WG/6
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INTRODUCTION

Meeting

1.1 The Sixth Meeting of the Asia/Pacific Regional Search and Rescue Work Group (APSAR/WG/6) was held from 03 to 06 May 2021, by Video Teleconference hosted by the ICAO Asia and Pacific Regional Office, Bangkok, Thailand.

Attendance

2.1 There were 112 registered participants for the meeting from Australia, Bangladesh, Bhutan, Cambodia, China, Hong Kong China, Fiji, France, India, Indonesia, Japan, Lao People's Democratic Republic, Malaysia, Maldives, Myanmar, Nepal, New Zealand, Pakistan, Papua New Guinea, Philippines, Republic of Korea, Singapore, Sri Lanka, Thailand, United States of America, Viet Nam, IATA, IFALPA and ICAO.

2.2 A list of participants is provided at **Appendix A** to this report.

Officers and Regional Office

3.1 Mr. Tai Kit, Head Air Traffic Control Specialist (Search and Rescue/Contingency Planning), Civil Aviation Authority of Singapore presided over the APSAR/WG/6 meeting throughout its duration as Chair.

3.2 Mr. Shane Sumner, Regional Officer ATM/AIM and Mr. Chew Han Chee, ATM Officer, ICAO Asia/Asia and Pacific Regional Office, were Secretaries for the meeting. They were supported by Ms. Prakayphet Chalayonnawin, Programme Analysis Associate (ATM).

Opening of the Meeting

4.1 Mr. Tai Kit welcomed participants to the meeting as APSAR/WG Chair.

4.2 On behalf of Dr. Manjit Singh, Acting Regional Director of the ICAO Asia and Pacific Office, Mr. Shane Sumner welcomed everyone to the APSAR/WG/6 meeting.

Documentation and Working Language

5.1 The working language of the meeting and all documentation was English. There were 12 Working Papers (WP), nine Information Papers IP, two Presentations and one Flimsy considered by the meeting.

5.2 A list of papers is included at **Appendix B** to this report.

Conclusions, Draft Conclusions, Draft Decisions and Decisions – Definition

6.1 The APSAR/WG recorded its actions in the form of Draft Conclusions, Draft Decisions and Decisions within the following definitions:

- a) **Conclusions** deal with matters of a technical nature relating to regional guidance material for publication on the ICAO Asia/Pacific Regional Office website.
- b) **Draft Conclusions** deal with matters that, according to APANPIRG terms of reference, require the attention of States, or action by the ICAO in accordance with established procedures;
- c) **Draft Decisions** deal with the matters of concern only to APANPIRG and its contributory bodies; and
- d) **Decisions** of the APSAR/WG relate solely to matters dealing with the internal working arrangements of APSAR/WG.

List of Conclusions, Draft Conclusions, Decisions and Draft Decisions

7.1 List of Conclusions

Nil

7.2 List of Draft Conclusions/Draft Decisions

Nil

7.3 List of Decisions

Nil

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REPORT ON AGENDA ITEMS

Agenda Item 1: Adoption of Agenda (WP/01)

Adoption of Agenda

- 1.1 The provisional agenda was adopted by the meeting. The List of Papers (IP01) was noted.
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Agenda Item 2: Review Outcomes of Related Meetings

Relevant Meetings Outcomes (WP/02)

- 2.1 The Secretariat presented a brief overview of outcomes from relevant high-level meetings conducted since the last APSAR/WG meeting.

2.2 The Eighth Meeting of the Air Traffic Management Sub-Group (ATM/SG/8) of the Asia/Pacific Air Navigation Planning and Regional Group (APANPIRG), held in November 2020, was informed of the regional SAR implementation status assessed against the 41 performance indicator elements of the *Asia/Pacific SAR Plan*, also taking into account status reports received after the APSAR/WG/5 meeting.

2.3 APANPIRG/31, held in December 2020, had adopted ***Conclusion APANPIRG/31-10: Review of National Air Navigation Plans***, urging States to review their National Air Navigation Plans (NANPs) in accordance with a whole of government approach and the requirements of the Asia/Pacific Regional Air Navigation Plan (ANP). Volume II of the ANP included specific regional requirements relating to National Air Navigation planning and SAR implementation status reporting.

2.4 The State NANP template was available on the ICAO Asia/Pacific (APAC) Regional Office eDocuments web-page at:

<https://www.icao.int/APAC/Pages/eDocs.aspx>

2.5 The Regional ANP was available at:

<https://www.icao.int/APAC/Pages/APAC-eANP.aspx>

2.6 The meeting was also reminded of element 7.42 of the Asia/Pacific Seamless ANS Plan, which expected States to establish an appropriate enhanced SAR system, and systems to support aircraft tracking capability, consistent with the provisions of Annex 12 and supporting the Global Air Navigation Plan (GANP) - Aviation System Block Upgrade (ASBU) elements ***GADS-B1/I-2***.

2.7 ***Conclusion APANPIRG/31-19*** had urged States to establish an action plan with defined target dates, update the status of corrective action taken and report progress dates for resolution of APANPIRG Air Navigation Deficiencies. Only Australia, Hong Kong China, India, Indonesia, Japan, Republic of Korea, New Zealand, Singapore, United States and Viet Nam had recorded *robust* implementation of SAR. All other APAC Administrations had APANPIRG Air Navigation Deficiencies recorded in the field of SAR. The list of APANPIRG ANS Deficiencies in the SAR field as reviewed by the meeting is provided **Appendix C** to this report.

Agenda Item 3: Global Update

Hosting of and Financial Contributions for the Deployment of the LADR (WP/03)

3.1 ICAO informed the meeting of State Letter AN 11/1.1.29-21/31 dated 26 April 2021, which canvassed States on the funding and hosting of the Location of Aircraft in Distress Repository (LADR). The LADR was intended to meet the requirements for information sharing as part of the Global Aviation Distress and Safety System (GADSS), supporting the relevant standards in Annex 6 – *Operation of Aircraft Part I – International Commercial Air Transport – Aeroplanes*.

3.2 ICAO was seeking contributions from Member States and international organizations that could be used to finalize the development of the LADR, and also sought one or more Member States and/or international organizations to host the system. An information session would be held on 26 May 2021.

3.3 Intention to provide contributions for funding the finalized version of the LADR and expressions of interest to host the LADR were to be submitted to the ICAO Secretary General by 25 June 2021.

Autonomous Distress Tracking Implementation (WP/04)

3.4 The United States informed the meeting of guidance developed by an in-depth ICAO Headquarters review and update of the International Maritime Organization (IMO) circular for SAR services regarding implementation of Autonomous Distress Tracking (ADT). The guidance, provided in **APSAR/WG/6 WP/04 Attachment A** would become an appendix to the 2022 edition of the International Aeronautical and Maritime SAR (IAMSAR) Manual Volume II regarding the aircraft equipage requirement for an ADT device from January 2023.

3.5 The meeting was informed that the major civil airliner manufacturers (Airbus and Boeing) had indicated they would be likely to meet the ADT requirement by initially equipping aircraft with Emergency Locator Transmitter – Distress Tracking - ELT(DT) devices, which would generate *alerts* delivered by Cospas-Sarsat to RCCs, in addition to the data delivered to the LADR. ADT *notifications* in the LADR, including ELT(DT) transmissions, would be reviewed by the aircraft operator to validate the cause of the activation (whether it was genuine, unknown or false). If validated, the aircraft operator would then notify the appropriate Air Traffic Services Unit (ATSU) which would then alert the RCC in accordance with Annex 11 requirements.

3.6 It was noted that the ELT(DT) message transmitted as an alert would be likely to cause confusion in RCCs, as seen in recent simulation exercises. United States stressed that RCCs would need to recognize the ELT(DT) as an ADT device, and not an ELT. RCCs would need to be prepared for the receipt of ELT(DT) notifications (potentially multiple, and including the term *ALERT* in the message) generated by the Cospas-Sarsat system, and understand the difference between this Cospas-Sarsat alert message and a LADR notification (if any) subsequently received from the ATSU. There was a risk that the RCC may view it as an actual distress situation, in the absence of a notification.

3.7 There was considerable discussion of this matter, the outcomes summarized as follows:

- ADT devices were not limited to the Cospas-Sarsat ELT(DT). There were at least two others that had been trialled;
- ELT(DT) was an ADT notification device, not a distress alert;
- ELT(DT) notifications were also distributed using the existing Cospas-Sarsat alert system;

- ELT(DT) messages included the term ‘Alert’, like existing ELT messages, but would also include other information in the message that would indicate it was not an ELT;
- all ADT device notifications would be sent to the LADR;
- the LADR would receive the information, and automatically distribute it to all subscribers. Aircraft Operator subscription to LADR was mandatory;
- the ICAO Air Traffic Management Ops Panel was considering provisions for mandatory subscription to the LADR by RCCs and ATSU;
- on receipt of an alert or a LADR notification, RCCs should still wait for the ATSU notification before commencing SAR actions;
- the ICAO position was that the ADT information distribution process would not change existing Annex 11 and Annex 12 provisions for coordination between ATSU and RCCs;
- RCCs would need to subscribe to the LADR to receive notifications, but if not subscribed they would still receive the usual notification from ATSU on emergency phase declaration;
- ADT devices were designed and engineered such that false activation/alert, rates should be very low, which could result in RCCs considering any received alert or notification to be authentic. RCCs would need to wait for validation of the alert or notification from the ATSU;
- the LADR prototype used email for notification to subscribers. Latency differences were noted during testing of the prototype. Additional communication methods are planned during further development of the LADR;
- on receipt of a LADR notification, the aircraft operator was to conduct a validation check and report the result to the ATSU, which would then notify the RCC of the result, whether an emergency phase or false activation.
- in the same way as for ELT alerts, ELT(DT) notifications were distributed to both the RCC associated with the airspace in which the aircraft was operating and the RCC associated with the State of Registry.

3.8 The following additional information on the LADR was provided by ICAO Headquarters post-meeting, in response to unanswered questions arising in plenary:

- LADR used a subscription model, in which users would select the notifications they wished to receive. Some options were ‘locked’, depending on the user type, e.g.:
 - aircraft operators could only receive notifications related to their own aircraft;
 - Air Navigation Service Providers (ANSPs) could only receive notifications related to aircraft within their FIR/s, or within an 80 nautical mile (NM) buffer to allow for flights about to enter the FIR, or flying parallel to the boundary but which may enter the FIR as the incident progresses. However, each ANSP receiving a notification would then be eligible to view the entire history of the event;
- users may choose to not subscribe to notifications, but it’s unlikely they would do so;

- RCC access to notifications was not restricted in the same way as aircraft operators or ANSPs:
 - Each RCC could configure its notification settings to receive a notification of data entering LADR from any aircraft in any FIR. While RCCs may initially choose to receive all LADR notifications (global), it was expected that after gaining system experience they would choose to only receive notifications for events in their own SRR, or for their own SRR and neighbouring SRRs, or for certain airlines, or other combinations matching their needs.

3.9 The meeting discussed the issue of lack of access by RCCs to the ICAO OPS Control Directory (<https://www4.icao.int/opsctrl>). It was noted that ICAO Headquarters was considering the inclusion of RCC details in the Directory. Currently, RCCs seeking access to the Directory may require authorization by the State aeronautical authority. It was further noted that aircraft operators had not yet fully populated the directory with their data, and that there was as yet no global database of aeronautical Search and Rescue Regions (SRRs), which could be useful in some circumstances. Further clarification provided offline by ICAO Headquarters was presented in **APSAR/WG/6 Flimsy 01**.

3.10 The meeting agreed to update Action Item 5/2 of the APSAR/WG Task List to reference the new guidance in the Attachment to WP/04, and to adapt the guidance for inclusion in the 2022 update of the Asia/Pacific SAR Plan.

Status of the Cospas-Sarsat Programme (WP/05)

3.11 The meeting was provided with a status report on the Cospas-Sarsat system, presented by the meeting Chair on behalf of the Cospas-Sarsat Secretariat. The status report included system operations, significant developments, space and ground segments, beacons, false alerts, reporting by Rescue Coordination Centres (RCCs) on the use of distress alert data provided, and results of Mission Control Centre – Single Point of Contact (MCC-SPOC) communication tests.

3.12 In the latest year for which statistics had been compiled, 2019, Cospas-Sarsat alert data assisted in 1,032 distress incidents (904 in 2018) and 2,774 persons were rescued (2,185 in 2018). Since September 1982, the Cospas-Sarsat System had provided assistance in rescuing at least 51,512 persons in 15,563 SAR events

3.13 The distribution of all SAR events was 20% for aviation, 26% for land and 54% for maritime.

3.14 19 of 31 operational MCCs reported results of their SPOC communication tests. Some MCCs did not support SPOCS outside their country, and therefore were not required to conduct tests. Of the 161 SPOCs tested in 2019 24.22% were *insufficiently responsive*. While the 2020 data reporting had not yet been finalized, 34 of the 141 SPOCs tested and reported were insufficiently responsive (24.11%), which was consistent with prior years.

3.15 As an approach to prompt a better response, Cospas-Sarsat had made available a ‘model’ written agreement/arrangement, which could be accessed on the Cospas-Sarsat website at:

<http://www.406.org/en/documents-pro/document-templates>

3.16 Cospas-Sarsat was working in 2021 to develop modifications to the message format used to transmit distress alert messages to RCCs, in response to draft amendments to the IAMSAR Manual Volume II Appendix B provided by the ICAO/IMO Joint Working Group (JWG) to provide sample ELT(DT) alerts and cancellation messages. The JWG encouraged active participation of interested SAR authorities in the work of Cospas-Sarsat on this topic.

3.17 Future enhancements to System operations continued to focus primarily on refinement and enhancement of technical specifications for Medium Earth Orbit SAR (MEOSAR) satellite facilities, ELT(DT)s, a Return Link Service (RLS), that was now operating at full operational capability and provided an acknowledgement to the beacon user that the distress signal has been received and located, and the 'second-generation' beacons that would transmit more information in their distress message and have greater location accuracy, while also being smaller.

3.18 A new Mission Control Centre Handbook would include more technical information for MCC training programs, allowing MCC operators to better support RCCs. Video material was available on YouTube through the following link, and Cospas-Sarsat was investigating means to make videos accessible when information technology security policies did not allow access to YouTube:

<http://cospas-sarsat.int/en/search-and-rescue/programme-videos-en>

3.19 A system test was planned to be conducted in mid-2021 to address the implementation of service for new beacons, including First-Generation Beacons (FGB), ELT(DT), and all types of Second-Generation Beacons (SGB) including SGB ELT(DT).

3.20 In discussion, it was stated that recent tests conducted in Europe had resulted in 42 alerts generated by Cospas-Sarsat in a 15 minute period, which would be likely to overload a RCC, and that this concern should be communicated to the Cospas-Sarsat Secretariat. The meeting was informed that Cospas-Sarsat had been working on this issue, and had asked States to choose whether they wanted to receive only notifications, or multiple alerts. States should make their concerns known to the Cospas-Sarsat Secretariat.

3.21 The meeting was informed that in 2019 the SAR false alert rate (SAR response perspective) was 96.65%, or about one real alert confirmed in 30 alerts received. The rate of false alerts had not changed substantially since 2015. While some States advised their false alert rates had been improved through local actions to engage relevant authorities, or were significantly lower than the global average, the numbers of false alerts remained unacceptably high. It was also important to educate SPOCs on the nature and incidence of false alerts, and to provide SPOCs with alert information that would better inform their actions to determine whether an alert may be false.

3.22 Cospas-Sarsat requested that participants provide feedback on notifications about system developments, provide feedback on the video library, participate in the development of modifications to distress alert message format, and provide details of any existing MCC-SPOC agreements and proposals for improving MCC-SPOC communications during tests and real alerts.

[Review on Search and Rescue Services involving BeiDou Navigation Satellite System \(IP/02\)](#)

3.23 China provided a summary of the development status of the BeiDou Navigation Satellite (BDS) system and the SAR services it provided.

3.24 The meeting noted that, unlike IMO, ICAO did not have a process to ratify satellite systems for Global Maritime Distress and Safety System (GMDSS) purposes. However, the meeting was informed that the IMO ratification of BDS was in process. The ICAO Standards and Recommended Practices (SARPS) supporting the use of BDS as a navigation system were under development by the Navigation Systems Panel, for consideration by the current session of the Air Navigation Commission.

Agenda Item 4: Asia/Pacific and Inter-Regional SAR Planning, Coordination and Cooperation

Air Operators Workshops (WP/06)

4.1 Information was provided on a project undertaken between September 2020 and April 2021 by the Joint RCC of New Zealand (JRCCNZ), to visit and present a one-day workshop to all rescue helicopter crews operating in New Zealand. JRCCNZ regularly engaged with 14 helicopter operators that had been designated as SAR Units (SRUs) across 19 bases. SAR work was not the operators' main source of work, with percentages ranging between 1% and 20% of their annual operations.

4.2 Workshop content included the global SAR system, New Zealand SAR system, tasking and briefing including health and safety, aircraft crash site hazards, SAR communications, on-scene coordinator roles and responsibilities, an introduction to Cospas-Sarsat, and search planning including theory and SARMap demonstrations.

4.3 Tangible results from the workshops included substantial improvement in post-tasking debriefing, better understanding of and noticeable improvement in the flying of search patterns, better understanding of the tasking/briefing information, now supported by a prescribed format for verbal briefings, and a process of improvement of briefing/debriefing forms based on feedback from the operators.

4.4 Workshop discussions had also provided the opportunity for concerns expressed by all operators to be considered by JRCCNZ and NZSAR, and the allocation of funding for training in specialized SAR skills for new crews such as winch training, direction finding, and flying search patterns. The workshops also provided the significant benefit of providing SAR Officers the opportunity to meet the SRU crews, improving the collaborative working environment. It was recommended that other RCCs engage with their national SRUs to understand their working environment, and to explain the operation of the RCC and SAR to enhance collaboration.

4.5 In response to a query, New Zealand informed the meeting that New Zealand was considering developing an online package for Pacific Island States located within the New Zealand SRR. Further workshops were also being considered for 'tier 2' helicopter operators that were occasionally contracted for SAR purposes.

Status Update on the Commissioning of LEO/GEO/MEO Singapore Mission Control Centre and Singapore MEOLUT (IP/03)

4.6 Singapore presented information on the commissioning status of the LEO/GEO/MEO¹ (LGM) Singapore MCC (SIMCC) and Medium Earth Altitude Orbit Local User Terminal (MEOLUT).

Malaysia Maritime SAR SOP Review and Update on SAR Activities, Operation and Training during Pandemic (IP/04)

4.7 The meeting was provided with a brief update on Malaysia's Maritime SAR Standard Operating Procedure (SOP) review and updates on SAR activities, operations and training during the COVID-19 pandemic.

¹ Low Earth Orbit (LEO), Geostationary Earth Orbit (GEO), and Medium Earth Orbit (MEO) satellites.

Malaysia SAR LOAs (IP/05)

4.8 Malaysia provided an update on SAR Letters of Agreement (LOAs) between the Civil Aviation Authority of Malaysia and the SAR administrators of neighbouring States.

Search and Rescue System of Pakistan (IP/06)

4.9 The meeting was updated on the Aviation SAR System of Pakistan including the ongoing works for its improvement and training program, and the frequent meetings with stakeholders to jointly review the SAR plan in order to enhance the capability of the SAR system. Responding to queries, Pakistan informed the meeting that SAR Mission Coordinators (SMCs) were mainly Senior Air Traffic Control (ATC) officers and that the Karachi and Lahore RCCs were not Joint RCCs (JRCCs). Both RCCs were operational 24 hours, with a roster of permanent staff that could be supplemented from a pool of ATCs when needed. SAR responsibility for the portions of the Karachi SRR over the high seas was delegated to the separate maritime SAR agency.

India SAR Update (IP/07)

4.10 The meeting was provided with an update of India's Search and Rescue, highlighting the improvement in India's compliance with the 41 performance indicators of the Asia/Pacific Regional SAR Plan.

Communication between IDMCC and RCC Timor Leste (IP/08)

4.11 Indonesia described the coordination between Indonesia Mission Control Centre (IDMCC) and RCC Timor Leste (the SPOC for Timor Leste), implemented under the MOU between the National SAR Agency of Republic of Indonesia (BASARNAS) and the Civil Aviation Authority of Timor Leste on SAR cooperation.

Research on the Regulatory System and Emergency Mechanism of Maritime Search and Rescue of Civil Aircraft (IP/09)

4.12 The meeting was introduced to the work of maritime SAR by the East China Air Traffic Management Bureau of Civil Aviation of China.

SAR Operation – Sriwijaya Air SJ182 (PR/01)

4.13 Indonesia briefed the meeting on the SAR operation responding to the crash of Sriwijaya Air flight SJ182 on northwest of Jakarta, Indonesia, on 09 January 2021. The briefing included the chronology of the crash, the trajectory of the flight, composition of the SAR team, SAR assets, tasking of aeronautical, maritime and underwater SAR assets, outcomes of the SAR mission and lessons learned.

4.14 The lessons learned included, in particular, the benefits of well-managed distress information that would determine a quick and accurate decision and response, the need for strong leadership to coordinate different assets in the SAR operation, and the coordination of shared responsibility being the key to success.

4.15 The presentation generated considerable discussion, summarized as follows:

- SAR datum buoys were not deployed as the crash site was very close to the coast of Java, and debris had been found early in the SAR operation;
- ATC tracking data provided by Indonesia's ANSP, AirNav Indonesia, had been utilized to develop the SAR operation plan;

- There was no direct contact between the SMC and the next of kin. Notification of next of kin was the responsibility of the aircraft operator. Human remains were forwarded to the police service for identification and onwards notification;
- The transporting of next of kin to the crash site for memorial purposes was arranged by the airline concerned, and was not part of the SAR operation;
- Indonesia's regulations stated that the duration of SAR operations was a maximum of seven days, except in the case of further finding of relevant items such as the location of wreckage/debris or human remains that required the SAR operation to be prolonged. The SJ182 operation had been conducted over 10 days;
- The cockpit voice recorder (CVR) was located several weeks after the end of the SAR operation.

Regional Air Navigation Plan Update (WP/07)

4.16 ICAO provided an update on the Asia/Pacific Regional Air Navigation Plan (ANP), which was available on the ICAO APAC Regional Office website at:

<http://www.icao.int/APAC/Pages/APAC-eANP.aspx>

4.17 Proposals for Amendment (PfAs) to the ANP for Flight Information Region (FIR) and SRR data in ANP Volume I, enabling the establishment by States of SRRs under the provisions of Annex 12, required approval by the Council of ICAO.

4.18 Four State Letters had been issued on the matter and, after some delays and due to the ongoing COVID-19 pandemic situation, the review of FIRs and SRRs was expected to be completed in October 2021.

4.19 The following Administrations (21 of 42 in APAC) had submitted PfAs concerning SRRs, which were pending circulation to ICAO Headquarters Secretariat for approval before circulation to all States:

Afghanistan, Australia, China, Fiji, French Polynesia, India, Indonesia, Lao PDR, Malaysia, Maldives, Mongolia, Nauru, Nepal, New Zealand, Pakistan, Papua New Guinea, Philippines, Singapore, Solomon Islands, Sri Lanka and USA.

4.20 **Figure 1** indicates the status of SRR verification as at 04 May 2021:

AP SAR/WG/6
Report on Agenda Items

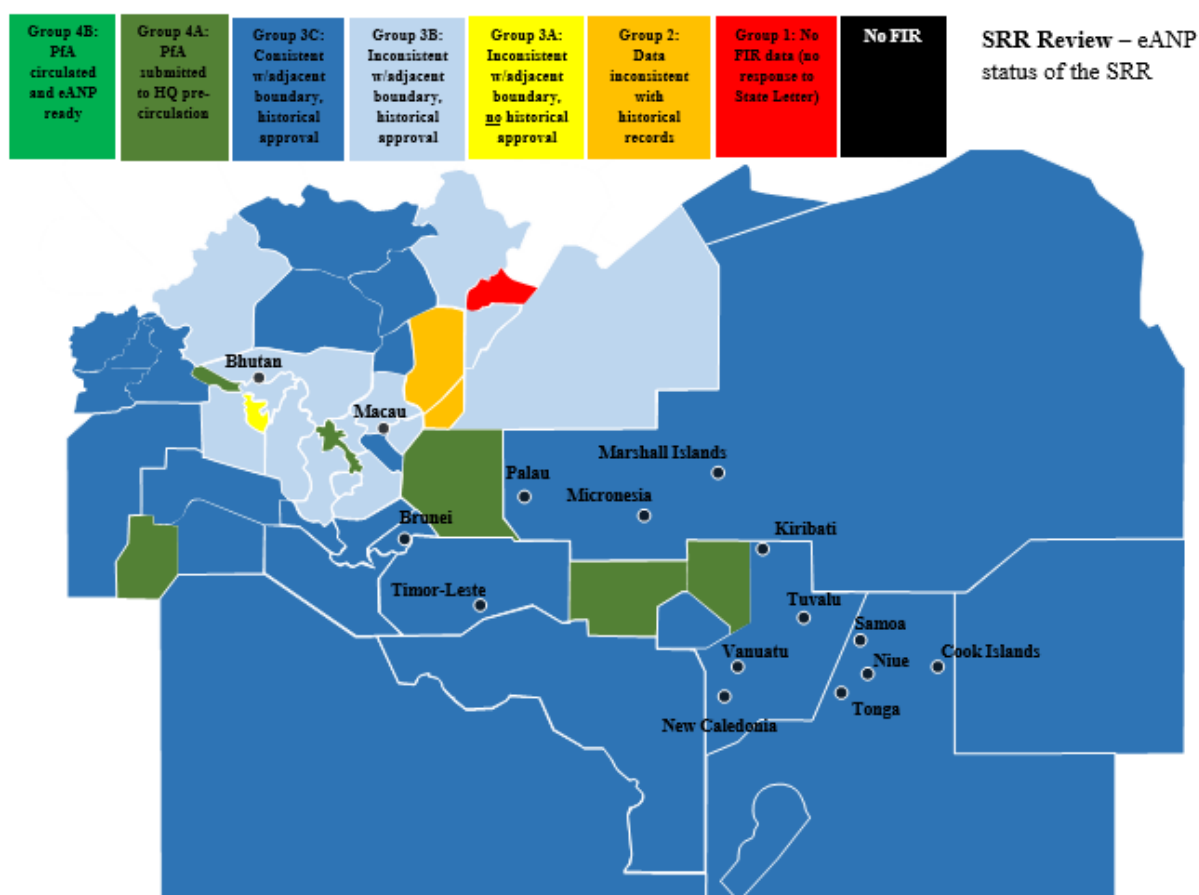


Figure 1: SRR Verification Status as at 04 May 2021

4.21 A Pfa template was provided on the IAO APAC Regional Office website at:

<http://www.icao.int/APAC/APAC%20eANP/ANP%20Amendment%20Template.doc>

4.22 **AP SAR/WG/6 WP07 Attachment B** provided SRR data to be included in the draft Table SAR I-1 in APAC ANP Volume I. All administrations were requested to review the data and provide feedback to ICAO on its accuracy.

4.23 Republic of Korea informed the meeting that there was no current arrangement between China and Republic of Korea on Maritime SRR boundaries, resulting in a misalignment between the Incheon FIR boundary and the SRR declared by Republic of Korea, which was larger than the FIR. As there was no current coordinated action to resolve this matter, Republic of Korea would be unable to meet the timeframe of October 2021 for completion of the SRR boundary definition for the ANP. Republic of Korea further informed the meeting that the inconsistent definition of the FIR and SRR boundaries caused difficulty in both aeronautical and maritime SAR operations.

4.24 The meeting noted that, while the harmonization of aeronautical and maritime SAR regions an appropriate goal, it was recognized that many States had not yet achieved it. As the matter of MSRR definition was one for the IMO, it was suggested that the States concerned could raise it with the SAR Working Group of the IMO Subcommittee on Navigation, Communications and SAR (NCSR). However, resolution of the issue would require direct coordination between the two States concerned.

Regional SAR Status (WP/08)

4.25 The meeting was provided with an update of SAR implementation status in the APAC Region. The ICAO APAC Regional Office maintained records of the information provided from its accredited Administrations regarding SAR status, in order to report to APANPIRG.

4.26 An analysis of the 26 Universal Safety Oversight Audit Programme (USOAP) SAR-related Protocol Questions (PQs, not including 7.483) on 06 April 2021 indicated that the overall Effective Implementation (EI) for SAR had risen since the advent of the APSAR/WG and its predecessor APSAR/TF, from 50.7% in July 2015 to 59.23% in April 2021. While the general trend of improvement was welcomed, it was recognized that all Administrations needed to continue their efforts to address weak areas and to assist other States where possible.

4.27 There had been little improvement in the major areas of weakness in SAR indicated by USOAP, including:

- **CE-3:** 7.517 (28%) – [SAR service provider] SAR coordination agreements;
- **CE-4:** 7.497 and 7.499 (42% and 37%) – [SAR regulatory oversight] SAR inspector’s training plan and training programme effectively implemented for SAR inspectors;
- **CE-7:** 7.505 and 7.545 (31% and 53%) – [SAR regulatory oversight] effective regulatory surveillance oversight of SAR, and checks that SAR operational personnel have regular training, including the conduct of SAREX; and
- **CE-8:** 7.507 (43%) – [SAR regulatory oversight and service provider] mechanism to eliminate SAR regulatory deficiencies.

4.28 APSAR/WG/6 WP/08 Attachment A provided more detailed information on PQ status for each audited State.

4.29 **APSAR/WG/6 WP/08 Attachments B and C** respectively provided the list of SAR Agreements reported to the ICAO Regional Office, and the SAR Agreement Matrix, used to track where SAR agreements were necessary and either did, or did not exist.

4.30 **Figure 2** illustrated the implementation status of the 41 elements of the Asia/Pacific Regional SAR Plan as at April 2021-based 41-element assessment provided a metric of implementation of the performance expectations of the SAR Plan as at 04 May 2021.

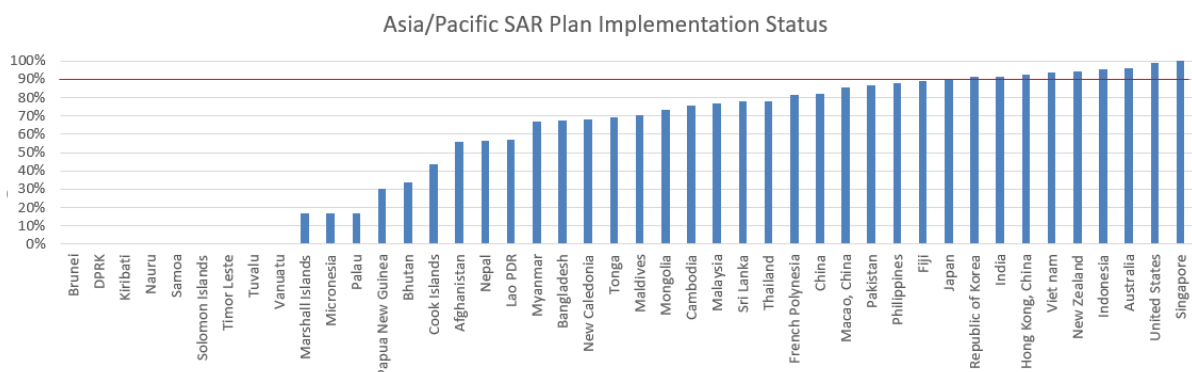


Figure 2: Asia/Pacific SAR Plan Implementation Status as at 04 May 2021

4.31 Regional policy established that States below 90% implementation would be considered to have an APANPIRG ANS Deficiency recorded for SAR implementation. Only ten APAC Administrations had reported implementation of 90%:

Australia, Hong Kong China, India, Indonesia, Japan, New Zealand, Republic of Korea, Singapore, USA and Viet Nam

4.32 **Figure 3** provided an overview of reported Asia/Pacific SAR Plan compliance as at 04 May 2021.

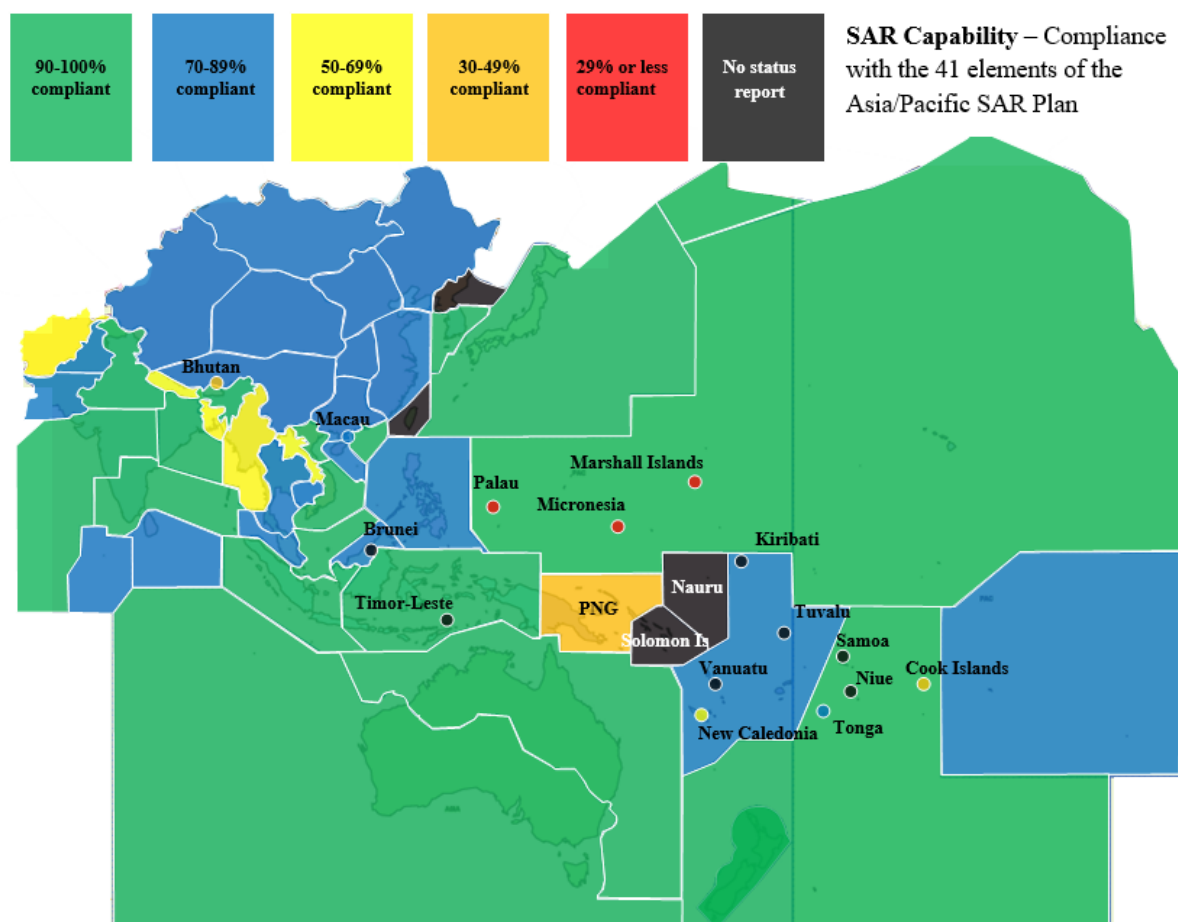


Figure 3: Reported Compliance with the Asia/Pacific SAR Plan, 04 May 2021.

4.33 **Appendix D** to this report provides an overview of the SAR implementation status of each APAC Administration, including updates provided immediately prior to or during the APSAR/WG/6 meeting.

4.34 New Zealand informed the meeting that their SAR agreements with Fiji and France (French Polynesia) were under consideration by those States, but had not been finalized. The States concerned were requested to finalize the SAR agreements as soon as possible.

4.35 The meeting was also informed that New Zealand had been working on SAR capability with Cook Islands, Samoa and Tonga, and also offered to assist Kiribati, which had a quite mature SAR capability, to report its SAR implementation status.

Agenda Item 5: Asia/Pacific Regional SAR Plan

Example MOU between the SAR Service and the Accident Investigation Authority (WP/09)

5.1 The United States informed the meeting that cooperation between national SAR services and national accident investigation authorities had been of concern to the Asia/Pacific region for several years. **APSAR/WG/6 WP/09 Attachment A** was the Memorandum of Understanding (MOU) between the United States national SAR service (U.S. Coast Guard) and its national accident investigation authority (National Transportation Safety Board) regarding cooperation for civil aviation accidents in the maritime environment.

5.2 The meeting was informed that the last meeting of the ICAO/IMO JWG had canvassed the availability of examples that could be used as a template in the next iteration of the IAMSAR Manual, and found that there were none. There would therefore be value in APSAR/WG taking a lead role in the development of a template for inclusion initially in the regional SAR plan, with a view to its later inclusion in the IAMSAR Manual, after which it could be withdrawn from the regional SAR plan. The next revision of the IAMSAR Manual was scheduled for 2025. The meeting agreed to the proposal that a generic version of the MOU should be developed for inclusion in the updated Asia/Pacific SAR Plan as a template. Australia and USA volunteered to work on this task.

5.3 In clarifying which documents included discussion of cooperation between the SAR service and the accident investigating authority, the meeting was informed that the GADSS Concept of Operations Chapter 2 included discussion of high level objectives of the GADSS relating to improvement in the transition of an event from ICAO Annex 12 (SAR) to Annex 13 (Accident Investigation) responsibility. The GADSS Concept of Operations was available on the ICAO GADSS website at:

<https://www.icao.int/safety/globaltracking/Pages/Homepage.aspx>.

Asia/Pacific SAR Plan Update (WP/10)

5.4 ICAO informed the meeting of amendments currently proposed for inclusion in the next iteration of the Asia/Pacific SAR Plan, and proposed the commencement of APSAR/WG activity to prepare a final draft of the updated plan for consideration at APSAR/WG/7 in 2022. The SAR Plan stated inter alia that it was intended that a complete review be conducted every three years from 2019. Noting that the year 2022 was in the middle of the six-year review cycle of the Global Air Navigation Plan (GANP) and the IAMSAR Manual, the proposed 2022 review was considered to be mainly editorial, updating information where necessary but not requiring a major re-write apart from the items identified in this meeting for inclusion in the Plan.

5.5 The Draft Asia/Pacific SAR Plan Version 3.2 provided in **APSAR/SG/6 WP/10 Attachment A** included comments from ICAO Headquarters, and ‘tracked changes’ resulting from those comments and other feedback received.

5.6 The meeting agreed that a new Action Item be included in the Task List, updating the SAR Plan for consideration at APSAR/WG/7 in 2022.

Agenda Item 6: APSAR/WG Task List

APSAR/WG Terms of Reference and Task List (WP/11)

6.1 The APSAR/WG Terms of Reference (TOR) and Task List were presented for review by the meeting. The updated Task List is provided in **Appendix E** to the Report.

Agenda Item 7: Any Other Business

Aeronautical SAR Contact List (WP/12)

7.1 The consolidated Air Traffic Management Points of Contact (POC) List, including SAR POCs, was provided for review. The POC List as updated by the meeting is at **Appendix F** to the Report. All Administrations were reminded to inform the ICAO Regional Office of at any time there was a change to their SAR POC/s.

Agenda Item 8: Date and Venue of the Next Meeting

8.1 The APSAR/WG/7 is tentatively scheduled to be held in May 2022 in Bangkok, Thailand.

Closing of the Meeting

9.1 In closing the meeting, the Chairman summarised the positive progress that had been achieved by the meeting and thanked the meeting participants for their contributions.

List of Participants

	STATE/NAME		TITLE/ORGANIZATION
1.	AUSTRALIA (1)		
	1.	Mr. Scott Constable	Principal Advisor Aviation Policy Australian Maritime Safety Authority <u>AUSTRALIA</u>
2.	BANGLADESH (2)		
	2.	Mr. MD Kamal Miah Sarker	Assistant Director Civil Aviation Authority of Bangladesh <u>BANGLADESH</u>
	3.	Mr. Md Shakhaoat Hossain	Air Traffic Controller Civil Aviation Authority of Bangladesh <u>BANGLADESH</u>
3.	BHUTAN (1)		
	4.	Mr. Sonam Zangpo	Assistant Air Traffic Control officer Bhutan, Department of Air Transport <u>BHUTAN</u>
4.	CAMBODIA (3)		
	5.	Mr. Em Yuthea	Permanent member, Disaster Secretariat of State Secretariat of Civil Aviation State Secretariat of Civil Aviation Cambodia <u>CAMBODIA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	6.	Mr. Mann Sokun	Deputy Director of ANS Department State Secretariat of Civil Aviation Cambodia <u>CAMBODIA</u>
	7.	Mr. Khun Chantheara	Acting Chief of Search and Rescue Standards State Secretariat of Civil Aviation Cambodia <u>CAMBODIA</u>
5.	CHINA (10)		
	8.	Ms. Yang Liu	Deputy Director of Safety Management Division Air Traffic Regulation Office Civil Aviation Administration of China (CAAC) <u>CHINA</u>
	9.	Ms. Li Xiaomeng	Assistant Safety Division of the Office of Air Traffic Regulation <u>CHINA</u>
	10.	Mr. Yu Wang	Deputy Director China MRCC <u>CHINA</u>
	11.	Mr. Xu Zhang	ATC Operation Supervisory Center, Civil Aviation Administration of China (CAAC) <u>CHINA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	12.	Mr. Li Xingchao	Engineer ATMB of CAAC <u>CHINA</u>
	13.	Mr. Weijun Pan	Dean of Air Traffic Management Civil Aviation Flight University of China <u>CHINA</u>
	14.	Mr. Chen Wenwei	Director ATMB <u>CHINA</u>
	15.	Mr. Zhiyong Peng	Deputy Director CAAC East China Regional Administration OMC <u>CHINA</u>
	16.	Mr. Liu Ao	Engineer The Second Research Institute of the Civil Aviation Authority of China <u>CHINA</u>
	17.	Mr. Wang rundong	Instructor Civil Aviation Flight University of China <u>CHINA</u>
6.	HONG KONG, CHINA (2)		
	18.	Mr. Chan Kin Chung	Senior Operation Officer (Support)2 Civil Aviation Department, Hong Kong, China <u>HONG KONG, CHINA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	19.	Mr. Gabriel PK Cheng	Chief (Technical & Development) Civil Aviation Department, Hong Kong, China <u>HONG KONG, CHINA</u>
7.	FIJI (2)		
	20.	Ms. Alisi Namoro	Air Navigation Service Inspector – SAR/ATM Civil Aviation Authority of Fiji <u>FIJI</u>
	21.	Mr. Ilimeleki Navula	Controller Standards/Search and Rescue – Air Traffic Management Fiji Airports <u>FIJI</u>
8.	FRANCE (1)		
	22.	Mr. Philippe Plantin de Hugues	Senior Investigator BEA <u>FRANCE</u>
9.	INDIA (6)		
	23.	Mr. Ravinder Singh Jamwal	Deputy Director of Operations (ANSS) DGCA India <u>INDIA</u>
	24.	Mr. Sunil Rathee	Deputy Director DGCA India <u>INDIA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	25.	Mrs. Archana Sunil Jadoo	Assistant Director Directorate General of Civil Aviation of India <u>INDIA</u>
	26.	Mr. Manickam Muthu	General Manager (ATM-SAR) Airports Authority of India <u>INDIA</u>
	27.	Mr. Rajiv Kumar Bansal	Jt. General Manager Airports Authority of India <u>INDIA</u>
	28.	Mr. Yogendra Kumar Rohilla	Jt. General Manager (ATM - AIS & SAR) Airports Authority of India <u>INDIA</u>
10.	INDONESIA (9)		
	29.	Mr. Barokna Haulah	Director of Planning/ National Search and Rescue Agency of Republic of Indonesia (Basarnas) <u>INDONESIA</u>
	30.	Mrs. Dina Yunita	Chief of AIS, MET and SAR DGCA Indonesia, Directorate of Air Navigation <u>INDONESIA</u>
	31.	Mrs. Dessy Christiani	Inspector of Air Navigation DGCA Indonesia, Directorate of Air Navigation <u>INDONESIA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	32.	Mr. Ogi Gustira	Inspector of Air Navigation DGCA Indonesia, Directorate of Air Navigation <u>INDONESIA</u>
	33.	Ms. Suyanti Aviani	Inspector Of Air Navigation DGCA Indonesia, Directorate of Air Navigation <u>INDONESIA</u>
	34.	Mr. Otty Rusinarsetyo	Chief of Section of International Cooperation National Search and Rescue of Indonesia <u>INDONESIA</u>
	35.	Mr. Ahmad Toha Muslimin	Head of early Detection Section National Search and Rescue of Indonesia <u>INDONESIA</u>
	36.	Mr. I Made Oka Astawa	Head of operation control section of aircraft and ship accidents BASARNAS <u>INDONESIA</u>
	37.	Mr. I Kadek Dedi	SAR Officer BASARNAS <u>INDONESIA</u>
11.	JAPAN (5)		
	38.	Mr. Michiyo Okawa	Air Traffic Services Flight Information Officer Japan Civil Aviation Bureau <u>JAPAN</u>

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	STATE/NAME		TITLE/ORGANIZATION
	39.	Mr. Hiromitsu Sugimoto	Air Traffic Services Flight Information Officer Japan Civil Aviation Bureau <u>JAPAN</u>
	40.	Mr. Tomotaka Sato	Air Traffic Services Flight Information Officer Japan Civil Aviation Bureau <u>JAPAN</u>
	41.	Mr. Takahisa Hamada	Special Assistant to the Director Japan Civil Aviation Bureau <u>JAPAN</u>
	42.	Mr. Ino Yusuke	Chief of Operation and Flight Inspection Division Japan Civil Aviation Bureau <u>JAPAN</u>
12.	LAO PDR (1)		
	43.	Mr. Vixay VORLACHIT	Aviation Search and Rescue Officer Air Navigation Standards Division Department of Civil Aviation of Lao PDR <u>LAO PDR</u>
13.	MALAYSIA (9)		
	44.	Mr. Mani Vannan Ketena Samy	Principal Assistant Director Civil Aviation Authority of Malaysia <u>MALAYSIA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	45.	Mr. Megat Ahmad Zuhri Megat Ahmad Zubir	Senior Assistant Director Civil Aviation Authority of Malaysia <u>MALAYSIA</u>
	46.	Mrs. Nur Mas Khairana Abdul Rahman	SAR Admin Officer Civil Aviation Authority of Malaysia <u>MALAYSIA</u>
	47.	Commander Maritime Suzanna Razali Chan	Principle Assistant Director Malaysian Maritime Enforcement Agency (MMEA) <u>MALAYSIA</u>
	48.	Lieutenant Commander Maritime Wan Mohd Fuad Hanif Wan Hasan	Senior Assistant Director Malaysian Maritime Enforcement Agency <u>MALAYSIA</u>
	49.	Lieutenant Maritime Muhamad Faizal Othman	Assistant Director Malaysian Maritime Enforcement Agency <u>MALAYSIA</u>
	50.	Mrs. Fadilah Yusof	Manager Telekom Malaysia Berhad <u>MALAYSIA</u>
	51.	Mr. Muhammad Faiz Noor Izhar	Project Manager Advance Air Traffic Systems (M) Sdn. Bhd. <u>MALAYSIA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	52.	Mr. Mohd Sharil Abdul Razak	Maintenance Engineer Advance Air Traffic Systems (M) Sdn. Bhd. <u>MALAYSIA</u>
14.	MALDIVES (2)		
	53.	Mr. Ahmed Mohamed	Watch Manager, ATC Maldives Airports Company Ltd <u>MALDIVES</u>
	54.	Mr. Moosa Shahid Hussain	Manager, ATC Maldives Airports Company Ltd <u>MALDIVES</u>
	55.	Mr. Ismail Jiyad	Higher Air Traffic Control Officer Maldives Airports Company Ltd <u>MALDIVES</u>
15.	MYANMAR (1)		
	56.	Mr. Aung Zaw Thein	Assistant General Manager (En Route ATM) Department of Civil Aviation of Myanmar <u>MYANMAR</u>
16.	NEPAL (7)		
	57.	Mr. Rinji Sherpa	Deputy Director Civil Aviation Authority of Nepal <u>NEPAL</u>

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	STATE/NAME		TITLE/ORGANIZATION
	58.	Mr. Deepak Joshi	Deputy Director Civil Aviation Authority of Nepal <u>NEPAL</u>
	59.	Mr. Sitaram Bhandari	Deputy Director Civil Aviation Authority of Nepal <u>NEPAL</u>
	60.	Mr. Nabin Acharya	Deputy Director Civil Aviation Authority of Nepal <u>NEPAL</u>
	61.	Mr. Sanjay Kumar	Deputy Director Civil Aviation Authority of Nepal <u>NEPAL</u>
	62.	Mr. Hiron Shah	Deputy Director Civil Aviation Authority of Nepal <u>NEPAL</u>
	63.	Mr. Nabin Sharma	Manager, RCC Civil Aviation Authority of Nepal <u>NEPAL</u>
17.	NEW ZEALAND (1)		
	64.	Mrs. Tracy Brickles	Senior Search and Rescue Officer Rescue Coordination Centre, New Zealand <u>NEW ZEALAND</u>

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	STATE/NAME		TITLE/ORGANIZATION
18.	PAKISTAN (3)		
	65.	Mr. Syed Munawar Ali	Additional Director Search and Rescue Pakistan Civil Aviation Authority <u>PAKISTAN</u>
	66.	Mr. Muhammad Rafiq	Senior Joint Director (ATM/SAR) Pakistan Civil Aviation Authority <u>PAKISTAN</u>
	67.	Mr. Ali Waqas	Senior Assistant Director Search and Rescue Pakistan Civil Aviation Authority <u>PAKISTAN</u>
19.	PAPUA NEW GUINEA (3)		
	68.	Mr. Ilaitia Tabakaucoro	Regulatory and Compliance – ATS NiuSky Pacific Limited <u>PAPUA NEW GUINEA</u>
	69.	Mr. Paul Kafafi	Centre Supervisor – RCC Personnel NiuSky Pacific Limited <u>PAPUA NEW GUINEA</u>
	70.	Mr. Daniel Elisha	Centre Supervisor – RCC Personnel NiuSky Pacific Limited <u>PAPUA NEW GUINEA</u>
20.	PHILIPPINES (3)		
	71.	Mr. Braulio Meneses	Air Traffic Management Officer IV Philippine Aeronautical Rescue Coordination Center <u>PHILIPPINES</u>

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	STATE/NAME		TITLE/ORGANIZATION
	72.	Ms. MA. Sheila M. Cuesta	Air Traffic Management Officer II Philippine Aeronautical Rescue Coordination Center <u>PHILIPPINES</u>
	73.	Mr. Christian Earl Caballo	Air Traffic Management Officer I Civil Aviation Authority of the Philippines <u>PHILIPPINES</u>
21.	REPUBLIC OF KOREA (3)		
	74.	Mr. Yoo, Dong-seon	Assistant Director Air Traffic Management Office Ministry of Land, Infrastructure and Transport <u>REPUBLIC OF KOREA</u>
	75.	Mr. Jaeho Shin	Assistant Director Korea Office of Civil Aviation <u>REPUBLIC OF KOREA</u>
	76.	Mr. Kim Min Hyeon	SAR Division Korea Coast Guard <u>REPUBLIC OF KOREA</u>
22.	SINGAPORE (8)		
	77.	Mr. Tai Kit	Head ATC Specialist (Search and Rescue/Contingency Planning) Air Traffic Services Division Civil Aviation Authority of Singapore <u>SINGAPORE</u>

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	STATE/NAME		TITLE/ORGANIZATION
	78.	Mr. Joel Tan	Senior Assistant Director (International Relations) Ministry of Transport <u>SINGAPORE</u>
	79.	Mr. Chan Guolong	Senior Assistant Director (International Relations and Security) Ministry of Transport <u>SINGAPORE</u>
	80.	Mr. Chee Han Tan	Senior Air Traffic Control Manager (ATM-SEA2) Civil Aviation Authority of Singapore <u>SINGAPORE</u>
	81.	Mr. Jermaine Hoh	Head ATM (South East Asia) Civil Aviation Authority of Singapore <u>SINGAPORE</u>
	82.	Mr. Brian Goh	ATC Specialist Civil Aviation Authority of Singapore <u>SINGAPORE</u>
	83.	Mr. Bernard Li	Air Traffic Controller Civil Aviation Authority of Singapore <u>SINGAPORE</u>
	84.	Mr. Herman Soffian Kambari	Air Traffic Controller Civil Aviation Authority of Singapore <u>SINGAPORE</u>

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	STATE/NAME		TITLE/ORGANIZATION
23.	SRI LANKA (3)		
	85.	Mr. Mahinda Abeyawardhane	Senior Civil Aviation Inspector Civil Aviation Authority of Sri Lanka <u>SRI LANKA</u>
	86.	Mrs. Thilini Dinushika Herath	Senior Civil Aviation Inspector – Air Traffic Management (Standards & Procedures) Civil Aviation Authority of Sri Lanka <u>SRI LANKA</u>
	87.	Mr. Cecil Kiriieldeniya	Senior Manager ATC-SAR Airport & Aviation Services (Sri Lanka) Ltd <u>SRI LANKA</u>
24.	THAILAND (7)		
	88.	Mr. Sakpon Chaimongkol	Inspector Search and Rescue The Civil Aviation Authority of Thailand <u>THAILAND</u>
	89.	Mr. Kreggrai Sitthichobtham	Search and Rescue Oversight Division Officer The Civil Aviation Authority of Thailand <u>THAILAND</u>
	90.	Ms. Natkitta Srithaweepan	Transport Technical Officer, Professional Level Office of of the Search and Rescue Comission, Ministry of Transport <u>THAILAND</u>

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	STATE/NAME		TITLE/ORGANIZATION
	91.	Mr. Patompong Wongsakda	Transport Technical Officer (Practitioner Level), Office of the Search and Rescue Commission <u>THAILAND</u>
	92.	Miss Phoichanee Saelim	Transport Technical Officer (Practitioner Level), Office of the Search and Rescue Commission <u>THAILAND</u>
	93.	Mr. Thanaset Suwannajan	Transport Technical Officer (Practitioner Level), Office of the Search and Rescue Commission <u>THAILAND</u>
	94.	Miss Thichakorn Likitthanapong	Transport Technical Officer, Office of the Search and Rescue Commission <u>THAILAND</u>
25.	UNITED STATES OF AMERICA (4)		
	95.	Mr. Michael Watkins	Senior Air Traffic Representative, Asia Pacific Federal Aviation Administration <u>SINGAPORE</u>
	96.	Mr. William Christie	Acting Deputy Manager Federal Aviation Administration <u>UNITED STATES OF AMERICA</u>
	97.	Mr. David Edwards	U.S. Coast Guard – Search and Rescue United States Coast Guard <u>UNITED STATES OF AMERICA</u>

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	STATE/NAME		TITLE/ORGANIZATION
	98.	Ms. Jennifer Conklin	Search and Rescue Manager U.S. Coast Guard <u>UNITED STATES OF AMERICA</u>
26.	VIET NAM (6)		
	99.	Ms. Lan Oanh (Lana) Nguyen	Deputy Director Air Navigation Department Civil Aviation Authority of Vietnam (CAAV) <u>VIET NAM</u>
	100.	Mr. Do Quang Huy	Officer - Air Navigation Department Civil Aviation Authority of Vietnam (CAAV) No. 119 Nguyen Son Street, Long Bien District, Ha Noi <u>VIET NAM</u>
	101.	Mr. Dinh Cong Nguyen	Deputy Director General Viet Nam Air Traffic Management Corporation (VATM) <u>VIET NAM</u>
	102.	Mr. Tuan Nguyen Minh	Deputy Director, Aviation Search & Rescue Coordination Center (RCC) Viet Nam Air Traffic Management Corporation (VATM) <u>VIET NAM</u>
	103.	Mr. Khanh Nguyen Nang	Manager, Division of SAR Operations, Aviation Search & Rescue Coordination Center (RCC) Vietnam Air Traffic Management Corporation (VATM) <u>VIET NAM</u>

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	STATE/NAME		TITLE/ORGANIZATION
	104.	Mr. Nguyen Thanh Tam	Deputy Manager, Division of SAR Operations, Aviation Search & Rescue Coordination Center (RCC) Vietnam Air Traffic Management Corporation (VATM) <u>VIET NAM</u>
27.	IATA (2)		
	105.	Mr. John Moore	Assistant Director, Safety and Flight Operations, ASPAC IATA <u>SINGAPORE</u>
	106.	Mr. Yoshiki Imawaka	Executive Advisor Flight Operation Standards, Operation Support Center All Nippon Airways (ANA) <u>JAPAN</u>
28.	IFALPA (1)		
	107.	Captain Ishtiaque Hossain	Executive Vice President, APAC IFALPA <u>CANADA</u>
29.	ICAO (5)		
	108.	Mr. Shane Sumner	Regional Officer, Air Traffic Management ICAO Asia and Pacific Regional Office <u>THAILAND</u>

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	STATE/NAME		TITLE/ORGANIZATION
	109.	Mr. Hiroyuki Takata	Regional Officer, ATM ICAO Asia & Pacific Regional Sub-Office (APAC RSO) <u>CHINA</u>
	110.	Mr. Mior Adli Bin Mior Sallehuddin	Regional Officer, Air Traffic Management (AOM-ASM) ICAO Asia and Pacific Regional Sub-Office, <u>CHINA</u>
	111.	Mr. Han Chee Chew	Air Traffic Management Officer ICAO Asia and Pacific Regional Office <u>THAILAND</u>
	112.	Ms. Prakayphet Chalayonnawin	Programme Analysis Associate, Air Traffic Management ICAO Asia and Pacific Regional Office <u>THAILAND</u>

LIST OF WORKING PAPERS AND INFORMATION PAPERS

WORKING PAPERS

NUMBER	AGENDA	TITLE	PRESENTED BY
WP01	1	Provisional Agenda	Secretariat
WP02	2	Relevant Meetings Outcomes	Secretariat
WP03	3	ICAO Update on LADR	Secretariat
WP04	3	Autonomous Distress Tracking Implementation	USA
WP05	3	Status of the Cospas-Sarsat Programme	Cospas-Sarsat Secretariat
WP06	4	Air Operators Workshops	New Zealand
WP07	4	Regional Air Navigation Plan Update	Secretariat
WP08	4	Regional SAR Status	Secretariat
WP09	5	Example MOU between the SAR Service and the Accident Investigation Authority	USA
WP10	5	Asia/Pacific SAR Plan Update	Secretariat
WP11	6	APSAR/WG Terms of Reference and Task List	Secretariat
WP12	7	Aeronautical SAR Contact List	Secretariat

INFORMATION PAPERS

NUMBER	AGENDA	TITLE	PRESENTED BY
IP01	-	Provisional List of Working Papers and Information Papers	Secretariat
IP02	3	Review on Search and Rescue Services involving Beidou Navigation Satellite System	China
IP03	4	Status Update on the Commissioning of LEO/GEO/MEO Singapore Mission Control Centre and Singapore MEOLUT	Singapore
IP04	4	Malaysia Maritime SAR SOP Review and Update on SAR Activities, Operation and Training during Pandemic	Malaysia
IP05	4	Malaysia SAR LOAs	Malaysia
IP06	4	Search and Rescue System of Pakistan	Pakistan
IP07	4	India SAR Update	India
IP08	4	Status of Indonesia Mission Control Centre	Indonesia
IP09	4	Research on the Regulatory System and Emergency Mechanism of Maritime Search and Rescue of Civil Aircraft	China

PRESENTATIONS

NUMBER	AGENDA	TITLE	PRESENTED BY
PR01	4	(WP/06) Air Operators Workshops	New Zealand
PR02	4	SAR Operation Sriwijaya Air SJ182	Indonesia

FLIMSIES

NUMBER	AGENDA	TITLE	PRESENTED BY
Flimsy 01	3	OPS CTRL Directory	Secretariat

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Appendix C

SAR Deficiencies List (Updated 04 May 2021)

States/facilities	Deficiencies			Corrective Action		
	Description	Date first reported	Remarks	Executing body	Target date	Priority **
	SAR capability: Requirements of Annex 12 as defined in the Regional Air Navigation Plan Volume II Part I – GENERAL PLANNING ASPECTS Section 3 SPECIFIC REGIONAL REQUIREMENTS, failure to reach 90% or more implementation of the Asia/Pacific SAR Plan					
Afghanistan	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 45%	Afghanistan	2016 -2019	U
Bangladesh	Asia/Pacific SAR Plan	17/05/2019	AP SAR/WG/5 65% AP SAR/WG/6 67%	Bangladesh	2019	U
Bhutan	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 34%	Bhutan	2016 -2019	U
Brunei Darussalam	Asia/Pacific SAR Plan	17/05/2019	AP SAR/WG/4 63%	Brunei	2019	U
Cambodia	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 76%	Cambodia	2019	U
China	Asia/Pacific SAR Plan	17/05/2019	AP SAR/WG/4 82%	China	2019	U
Macau, China	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 85%	Macao, China	2019	U
Cook Islands	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 0%	Cook Islands	2019	U
DPR Korea	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 66%	DPR Korea	2019	U
Fiji	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 80% AP SAR/WG/6 89%	Fiji	2019	U
French Polynesia	Asia/Pacific SAR Plan	17/05/2019	AP SAR/WG/4 84%	French Polynesia	2019	U
Kiribati	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 26%	Kiribati	2019	U
Lao PDR	Asia/Pacific SAR Plan	6/07/2015	AP SAR/WG/4 57%	Lao PDR	2019	U
Malaysia	Asia/Pacific SAR Plan	17/05/2019	AP SAR/WG/5 78% AP SAR/WG/6 77%	Malaysia	2019	U

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States/facilities	Deficiencies			Corrective Action		
	Description	Date first reported	Remarks	Executing body	Target date	Priority **
Maldives	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 71% APSAR/WG/6 71%	Maldives	2019	U
Marshall Islands	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/5 17%	Marshall Islands	2019	U
Micronesia	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/5 17%	Micronesia	2019	U
Mongolia	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/4 63% APSAR/WG/6 73%	Mongolia	2019	U
Myanmar	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 67%	Myanmar	2019	U
Nauru	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Nauru	2019	U
Nepal	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/5 56%	Nepal	2019	U
New Caledonia	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/4 54%	New Caledonia	2019	U
Palau	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/5 17%	Palau	2019	U
Pakistan	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/4 84% APSAR/WG/6 87%	Pakistan	2019	U
Papua New Guinea	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Papua New Guinea	2019	U
Philippines	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 61% APSAR/WG/6 88%	Philippines	2019	U
Samoa	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Samoa	2019	U
Solomon Islands	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Solomon Islands	2019	U

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States/facilities	Deficiencies			Corrective Action		
	Description	Date first reported	Remarks	Executing body	Target date	Priority **
Sri Lanka	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/5 75% APSAR/WG/6 78%	Sri Lanka	2019	U
Thailand	Asia/Pacific SAR Plan	17/05/2019	APSAR/WG/5 78% APSAR/WG/6 78%	Thailand	2019	U
Timor-Leste	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Timor-Leste	2019	U
Tonga	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Tonga	2019	U
Vanuatu	Asia/Pacific SAR Plan	6/07/2015	APSAR/WG/4 0%	Vanuatu	2019	U

REGIONAL SAR PLAN MONITORING AND REPORTING FORM
SAR PERFORMANCE INDICATORS

Following is a bank of indicators based on the Asia/Pacific Plan's performance improvement section (which should be read in conjunction with these questions), that can be used to assess whether an administration is either compliant or not and to internally evaluate their implementation status of the Asia/Pacific SAR Plan. Using the drop down menu for each of the 41 elements, please indicate implementation status with either 0 (not implemented), or 0.5 (50% implemented - note - other partial implementation may be indicated such as 0.1 = 10%) or 1 (fully implemented).

		Afghanistan	Australia	Bangladesh	Bhutan	Brunei	Cambodia	China	Hong Kong, China	Macao, China	Cook Islands	DPRK	Fiji	French Polynesia	India
Indicate whether your Administration has:															
1	Enacted legislation that incorporates or is aligned to applicable international Conventions	1	1.0	1.0	0.5		1.0	1.0	1.0	0.5			0.5	1.0	1.0
2	Unless delegated, established an entity that provides 24-hour SAR services within its area of responsibility/SRR	1	1.0	1.0	0.5		0.5	1.0	1.0	1.0	1.0		1.0	1.0	1.0
3	Established a national SAR committee	1	1.0	0.0	0.0		1.0	1.0	1.0	1.0			1.0	1.0	1.0
4	Empowered SAR Mission Coordinators with the authority to adequately carry out their responsibilities	1	1.0	1.0	0.0		0.5	1.0	1.0	1.0	1.0		1.0	1.0	1.0
5	Established an Administrative Single Point of Contact for SAR (ASPOCS) for non-urgent, administrative matters	1	1.0	1.0	1.0		1.0	1.0	1.0	0.5			1.0	1.0	1.0
6	Conducted studies to integrate aviation and maritime SAR, and as far as practicable, civil and military activities	1	1.0	1.0	1.0		1.0	0.8	1.0	0.5	1.0		1.0	1.0	1.0
7	Conducted studies to align, as far as practicable, aeronautical and maritime SRRs, and SRRs and FIRs	1	1.0	1.0	1.0		0.5	1.0	1.0	0.5	1.0		1.0	1.0	1.0
8	Established a single State SAR Plan	1	1.0	1.0	0.5		1.0	1.0	1.0	1.0			1.0	1.0	1.0
9	Established aerodrome emergency plans that provide for co-operation and co-ordination with RCCs	0.5	1.0	1.0	0.0		1.0	1.0	1.0	1.0			1.0	1.0	1.0
10	Established SAR agreements with States having adjoining SRRs or FIRs	0.5	0.9	0.0	0.5		1.0	0.5	0.5	1.0	0.9		0.5	0.0	0.5
11	Provided up to date cross-border information on SAR capability to adjoining States	0	0.7	1.0	0.0		1.0	0.5	1.0	1.0			0.5	1.0	0.5
12	Pre-arranged procedures for cross-border SAR responses	1	0.9	0.0	0.0		1.0	0.6	0.0	1.0	1.0		0.5	0.0	0.5
13	Established RCC plans for response to Mass Rescue Operations (MROs) integrated with national disaster plans	0.5	0.9	0.5	0.0		1.0	1.0	1.0	1.0	1.0		1.0	0.0	1.0
14	Established operational plans and procedures for SRUs, provision of support, communication and reporting	0.5	1.0	1.0	0.5		1.0	1.0	1.0	1.0			1.0	1.0	1.0
15	Established SAR Alerting procedures which are tested, integrated and include civil/military protocols	0.5	1.0	0.5	0.5		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
16	Provided a fully equipped RCC of sufficient size with adequate provision for operational positions and human factors	0.5	1.0	1.0	0.5		0.5	1.0	1.0	1.0	1.0		1.0	1.0	1.0
17	Provided adequate supervisory ATC resources to allow timely SAR alerts and information to RCCs	0	1.0	1.0	1.0		1.0	1.0	1.0	1.0			1.0	1.0	1.0
18	Provided sufficient RCC staffing	0	1.0	1.0	0.5		0.5	1.0	1.0	1.0	1.0		1.0	1.0	1.0
19	Provided a sufficient number of trained specialist RCC officers including SMCs and A/SMCs	0	1.0	0.1	0.0		0.5	0.8	1.0	1.0	1.0		1.0	1.0	1.0
20	Availability of a pool of RCC support staff who are familiar with RCC operations, but not trained as coordinators	0	1.0	0.5	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
21	Developed SAR personnel position descriptions detailing responsibilities and eligibility criteria	1	1.0	1.0	0.5		0.5	1.0	1.0	1.0	1.0		1.0	1.0	1.0
22	Developed a comprehensive training programme that includes SAR training for SAR Coordinators and SRU staff	0.5	1.0	1.0	0.0		0.5	0.8	1.0	1.0			1.0	1.0	1.0
23	Facilitated RCC staff to be proficient in the English language	1	1.0	1.0	1.0		0.5	0.8	1.0	1.0	1.0		1.0	1.0	1.0
24	Facilitated a programme of regular liaison visits between relevant RCCs, ATC units and airline operating centres	0	0.5	0.5	0.5		0.5	0.5	1.0	1.0			1.0	1.0	1.0
25	Established additional oceanic SAR capability as far as practicable to ensure a timely and adequate SAR response	1	1.0	1.0	1.0		0.5	0.6	1.0	1.0	1.0		1.0	1.0	1.0
26	Established sufficient SRU capabilities (crews, availability, military assets, communications, authority, etc.)	0.5	1.0	1.0	0.0		1.0	0.8	1.0	1.0			1.0	1.0	1.0
27	Established procedures and necessary infrastructure to coordinate distress beacon alert responses	0	1.0	0.5	0.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
28	Established a reliable distress beacon registration system	0	1.0	1.0	0.0		0.5	0.6	1.0	1.0			1.0	1.0	1.0
29	Planned and prepared for the implementation of next generation beacons	0	1.0	1.0	0.0		0.5	1.0	0.5	0.5	1.0		0.0	0.5	0.5
30	Established an appropriate nationwide means of disposal for old distress beacons	0	0.8	1.0	0.0		1.0	0.5	1.0	0.0			0.0	0.0	1.0
31	Established contingency facilities, or procedures for the temporary delegation of SAR to another body or State	1	1.0	0.0	0.0		1.0	1.0	1.0	1.0			1.0	0.5	0.0
32	Established a centralised information source publishing all AIP information required on SAR	1	0.9	1.0	1.0		0.5	1.0	1.0	0.5			1.0	1.0	1.0
33	Established an Internet-based SAR information sharing system	1	1.0	0.0	0.0		1.0	0.2	1.0	0.5			1.0	0.0	0.5
34	Established systems for the maximum practicable cooperation between State entities for information when required	1	1.0	0.0	0.0		1.0	1.0	1.0	1.0			1.0	1.0	1.0
35	Developed and maintained a current, comprehensive electronic list of State SAR Facilities, SAR Equipment, and SRUs	0.5	1.0	0.5	0.0		0.5	0.6	0.0	1.0			1.0	1.0	1.0
36	Established an Internet-based SAR Library, or cooperate by contributing to an Internet-based Asia/Pacific resource	0.5	1.0	0.5	0.0		0.5	0.6	1.0	0.0	1.0		0.5	0.5	1.0
37	Provided each RCC and SAR Authority with ready access to a current copy of SAR reference documents	1	1.0	1.0	0.3		0.5	0.6	1.0	1.0			1.0	1.0	1.0
38	Conducted regular SAREX to test and evaluate coordination procedures, data and information sharing and SAR responses	0.5	0.9	0.5	0.0		0.5	0.6	1.0	1.0			1.0	1.0	1.0
39	Implemented SAR System Improvement and Assessment measures, including Safety Management and QA systems	0	0.9	0.0	0.0		1.0	0.6	1.0	1.0			1.0	1.0	1.0
40	Conducted an annual or more frequent analysis of their current State SAR system to identify specific gaps in capability	0.5	1.0	0.5	0.5		0.5	0.8	1.0	1.0			1.0	1.0	1.0
41	Conducted SAR promotional programs	0	1.0	0.0	0.0		0.5	0.8	1.0	0.5			1.0	0.0	1.0
Total (of 41)		23.0	39.4	27.6	13.8	0.0	31.0	33.6	38.0	35.0	17.9	0.0	36.5	33.5	37.5
		%	56%	67%	34%	0%	76%	82%	93%	85%	44%	0%	89%	82%	91%

*2021 Update - Higher than previous year
*2021 Update - Less than previous year
*2021 Update - No Change

**REGIONAL SAR PLAN MONITORING AND REPORTING FORM
SAR PERFORMANCE INDICATORS**

Following is a bank of indicators based on the Asia/Pacific Plan's performance improvement section (which should be read in conjunction with these questions), that can be used to assess whether an administration is either compliant or not and to internally evaluate their implementation status of the Asia/Pacific SAR Plan. Using the drop down menu for each of the 41 elements, please indicate implementation status with either 0 (not implemented), or 0.5 (50% implemented - note - other partial implementation may be indicated such as 0.1 = 10%) or 1 (fully implemented).

		Indonesia	Japan	Kiribati	Lao PDR	Malaysia	Maldives	Marshall Islands	Micronesia	Mongolia	Myanmar	Nauru	Nepal	New Caledonia	New Zealand	
Indicate whether your Administration has:																
1	Enacted legislation that incorporates or is aligned to applicable international Conventions	1.0	1.0		1.0	1	1	0	0	1.0	1.0		0.7	1.0	1.0	
2	Unless delegated, established an entity that provides 24-hour SAR services within its area of responsibility/SRR	1.0	1.0		1.0	1	1	1	1	1.0	1.0		0.5	1.0	1.0	
3	Established a national SAR committee	1.0	1.0		1.0	1	1	0	0	1.0	1.0		1.0	1.0	1.0	
4	Empowered SAR Mission Coordinators with the authority to adequately carry out their responsibilities	1.0	1.0		1.0	1	0.5	0	0	1.0	1.0		0.5	1.0	1.0	
5	Established an Administrative Single Point of Contact for SAR (ASPOCS) for non-urgent, administrative matters	1.0	1.0		1.0	1	0	0	0	1.0	1.0		1.0	1.0	1.0	
6	Conducted studies to integrate aviation and maritime SAR, and as far as practicable, civil and military activities	1.0	1.0		0.5	1	1	0	0	1.0	1.0		1.0	1.0	1.0	
7	Conducted studies to align, as far as practicable, aeronautical and maritime SRRs, and SRRs and FIRs	1.0	1.0		0.5	0	0.5	0	0	0.0	1.0		0.5	0.5	1.0	
8	Established a single State SAR Plan	1.0	0.5		1.0	1	1	0	0	1.0	0.5		0.2	1.0	1.0	
9	Established aerodrome emergency plans that provide for co-operation and co-ordination with RCCs	1.0	1.0		0.5	1	0	0	0	1.0	0.5		0.5	1.0	1.0	
10	Established SAR agreements with States having adjoining SRRs or FIRs	0.9	0.6		0.5	0.5	0.5	1	1	1.0	0.5		0.0	0.5	0.8	
11	Provided up to date cross-border information on SAR capability to adjoining States	1.0	0.5		0.5	0.5	0.5	1	1	0.5	0.0		0.5	0.0	1.0	
12	Pre-arranged procedures for cross-border SAR responses	1.0	0.5		0.5	0.5	0.5	1	1	1.0	1.0		0.0	0.0	1.0	
13	Established RCC plans for response to Mass Rescue Operations (MROs) integrated with national disaster plans	1.0	1.0		0.0	1	1	0	0	0.5	0.5		0.5	0.0	1.0	
14	Established operational plans and procedures for SRUs, provision of support, communication and reporting	1.0	1.0		1.0	1	1	0	0	1.0	1.0		0.5	1.0	0.8	
15	Established SAR Alerting procedures which are tested, integrated and include civil/military protocols	1.0	1.0		0.5	1	1	0	0	1.0	0.5		0.8	1.0	1.0	
16	Provided a fully equipped RCC of sufficient size with adequate provision for operational positions and human factors	1.0	1.0		1.0	1	1	0	0	1.0	1.0		0.7	1.0	1.0	
17	Provided adequate supervisory ATC resources to allow timely SAR alerts and information to RCCs	1.0	1.0		1.0	1	1	0	0	1.0	1.0		1.0	1.0	1.0	
18	Provided sufficient RCC staffing	1.0	1.0		1.0	1	1	0	0	1.0	1.0		0.5	1.0	1.0	
19	Provided a sufficient number of trained specialist RCC officers including SMCs and A/SMCs	1.0	1.0		0.5	1	1	0	0	1.0	1.0		0.3	1.0	1.0	
20	Availability of a pool of RCC support staff who are familiar with RCC operations, but not trained as coordinators	1.0	1.0		0.5	1	1	0	0	0.5	1.0		0.5	1.0	1.0	
21	Developed SAR personnel position descriptions detailing responsibilities and eligibility criteria	1.0	1.0		0.5	1	1	0	0	1.0	0.5		0.4	1.0	1.0	
22	Developed a comprehensive training programme that includes SAR training for SAR Coordinators and SRU staff	1.0	0.5		0.5	1	0.5	0	0	1.0	1.0		0.7	1.0	1.0	
23	Facilitated RCC staff to be proficient in the English language	1.0	1.0		1.0	1	1	1	1	0.5	1.0		0.0	0.5	1.0	
24	Facilitated a programme of regular liaison visits between relevant RCCs, ATC units and airline operating centres	1.0	1.0		0.5	0.5	0	0	0	0.5	1.0		0.5	0.5	0.8	
25	Established additional oceanic SAR capability as far as practicable to ensure a timely and adequate SAR response	1.0	1.0		1.0	0.5	1	1	1	0.0	1.0		1.0	1.0	1.0	
26	Established sufficient SRU capabilities (crews, availability, military assets, communications, authority, etc.)	1.0	1.0		0.5	1	1	0	0	1.0	1.0		0.5	1.0	1.0	
27	Established procedures and necessary infrastructure to coordinate distress beacon alert responses	1.0	1.0		1.0	1	1	1	1	1.0	1.0		0.7	1.0	1.0	
28	Established a reliable distress beacon registration system	1.0	1.0		1.0	1	0.5	0	0	1.0	0.5		1.0	1.0	1.0	
29	Planned and prepared for the implementation of next generation beacons	1.0	1.0		0.5	0	0	0	0	0.5	0.0		0.4	0.5	1.0	
30	Established an appropriate nationwide means of disposal for old distress beacons	0.2	1.0		1.0	0	0	0	0	0.0	0.0		1.0	0.0	1.0	
31	Established contingency facilities, or procedures for the temporary delegation of SAR to another body or State	1.0	1.0		0.0	1	1	0	0	0.0	0.0		0.0	0.0	0.5	
32	Established a centralised information source publishing all AIP information required on SAR	1.0	1.0		1.0	1	1	0	0	1.0	1.0		1.0	1.0	1.0	
33	Established an Internet-based SAR information sharing system	1.0	0.5		0.0	0	0	0	0	1.0	0.0		0.6	0.0	0.9	
34	Established systems for the maximum practicable cooperation between State entities for information when required	1.0	1.0		0.0	0.5	0.5	0	0	1.0	0.5		0.5	0.0	1.0	
35	Developed and maintained a current, comprehensive electronic list of State SAR Facilities, SAR Equipment, and SRUs	1.0	1.0		0.0	0.5	1	0	0	0.0	0.5		0.8	0.5	0.9	
36	Established an Internet-based SAR Library, or cooperate by contributing to an Internet-based Asia/Pacific resource	0.5	0.5		0.0	0	0	0	0	0.0	0.0		0.3	0.0	1.0	
37	Provided each RCC and SAR Authority with ready access to a current copy of SAR reference documents	1.0	1.0		0.5	1	1	0	0	0.5	0.0		0.5	1.0	1.0	
38	Conducted regular SAREX to test and evaluate coordination procedures, data and information sharing and SAR responses	1.0	0.5		0.0	1	1	0	0	1.0	1.0		0.7	1.0	0.6	
39	Implemented SAR System Improvement and Assessment measures, including Safety Management and QA systems	0.5	1.0		0.0	1	0	0	0	0.5	0.0		0.5	0.5	0.75	
40	Conducted an annual or more frequent analysis of their current State SAR system to identify specific gaps in capability	1.0	1.0		0.0	0.5	1	0	0	1.0	0.5		0.3	0.5	1.0	
41	Conducted SAR promotional programs	1.0	1.0		0.0	0.5	1	0	0	0.0	0.5		0.5	0.0	0.75	
Total (of 41)		39.1	37.1	0.0	23.5	31.5	29	7.0	7.0	30.0	27.5		23.1	28.0	38.8	
		%	95%	90%	0%	57%	77%	71%	17%	17%	73%	67%	0%	56%	68%	95%

*2021 Update - Higher than previous year
*2021 Update - Less than previous year
*2021 Update - No Change

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SAR PERFORMANCE INDICATORS**

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		Pakistan	Palau	Papua New Guinea	Philippines	Republic of Korea	Samoa	Singapore	Solomon Islands	Sri Lanka	Timor Leste	Tonga	Thailand	Tuvalu	United States	
Indicate whether your Administration has:																
1	Enacted legislation that incorporates or is aligned to applicable international Conventions	1.0	0	0.0	1.0	1.0		1.0		1.0		1.0	1.0		1.0	
2	Unless delegated, established an entity that provides 24-hour SAR services within its area of responsibility/SRR	1.0	1	1.0	1.0	1.0		1.0		1.0		1.0	1.0		1.0	
3	Established a national SAR committee	1.0	0	0.0	1.0	1.0		1.0		1.0		1.0	1.0		1.0	
4	Empowered SAR Mission Coordinators with the authority to adequately carry out their responsibilities	1.0	0	1.0	1.0	1.0		1.0		1.0		1.0	0.6		1.0	
5	Established an Administrative Single Point of Contact for SAR (ASPOCS) for non-urgent, administrative matters	1.0	0	1.0	1.0	1.0		1.0		1.0		1.0	1.0		1.0	
6	Conducted studies to integrate aviation and maritime SAR, and as far as practicable, civil and military activities	1.0	0	0.0	1.0	1.0		1.0		1.0		0.5	1.0		1.0	
7	Conducted studies to align, as far as practicable, aeronautical and maritime SRRs, and SRRs and FIRs	1.0	0	0.0	0.5	0.5		1.0		0.8		0.5	1.0		1.0	
8	Established a single State SAR Plan	1.0	0	0.0	1.0	0.8		1.0		0.6		1.0	1.0		1.0	
9	Established aerodrome emergency plans that provide for co-operation and co-ordination with RCCs	1.0	0	0.5	0.8	1.0		1.0		0.8		0.5	1.0		1.0	
10	Established SAR agreements with States having adjoining SRRs or FIRs	0.0	1	0.0	0.8	0.7		1.0		0.8		1.0	0.8		0.7	
11	Provided up to date cross-border information on SAR capability to adjoining States	0.0	1	0.0	1.0	1.0		1.0		1.0		1.0	1.0		1.0	
12	Pre-arranged procedures for cross-border SAR responses	0.5	1	0.0	1.0	1.0		1.0		0.8		0.5	0.6		1.0	
13	Established RCC plans for response to Mass Rescue Operations (MROs) integrated with national disaster plans	0.5	0	0.5	0.8	1.0		1.0		0.6		0.5	0.5		1.0	
14	Established operational plans and procedures for SRUs, provision of support, communication and reporting	1.0	0	0.0	0.7	0.8		1.0		0.5		0.5	0.5		1.0	
15	Established SAR Alerting procedures which are tested, integrated and include civil/military protocols	1.0	0	0.5	1.0	1.0		1.0		0.5		1.0	0.5		1.0	
16	Provided a fully equipped RCC of sufficient size with adequate provision for operational positions and human factors	1.0	0	1.0	0.3	1.0		1.0		0.7		0.5	0.8		1.0	
17	Provided adequate supervisory ATC resources to allow timely SAR alerts and information to RCCs	1.0	0	1.0	1.0	1.0		1.0		1.0		0.5	1.0		1.0	
18	Provided sufficient RCC staffing	1.0	0	1.0	0.7	1.0		1.0		0.9		0.5	0.5		1.0	
19	Provided a sufficient number of trained specialist RCC officers including SMCs and A/SMCs	1.0	0	1.0	1.0	1.0		1.0		0.8		0.5	0.5		1.0	
20	Availability of a pool of RCC support staff who are familiar with RCC operations, but not trained as coordinators	1.0	0	0.5	1.0	1.0		1.0		1.0		1.0	1.0		1.0	
21	Developed SAR personnel position descriptions detailing responsibilities and eligibility criteria	1.0	0	0.5	1.0	1.0		1.0		1.0		0.5	0.5		1.0	
22	Developed a comprehensive training programme that includes SAR training for SAR Coordinators and SRU staff	1.0	0	0.0	1.0	1.0		1.0		0.9		1.0	0.7		1.0	
23	Facilitated RCC staff to be proficient in the English language	1.0	1	0.5	1.0	1.0		1.0		1.0		0.5	1.0		1.0	
24	Facilitated a programme of regular liaison visits between relevant RCCs, ATC units and airline operating centres	1.0	0	0.0	0.7	1.0		1.0		0.7		1.0	1.0		1.0	
25	Established additional oceanic SAR capability as far as practicable to ensure a timely and adequate SAR response	1.0	1	0.0	0.5	1.0		1.0		0.7		1.0	0.8		1.0	
26	Established sufficient SRU capabilities (crews, availability, military assets, communications, authority, etc.)	1.0	0	0.0	1.0	1.0		1.0		0.6		1.0	0.5		1.0	
27	Established procedures and necessary infrastructure to coordinate distress beacon alert responses	1.0	1	0.5	1.0	1.0		1.0		1.0		0.5	1.0		1.0	
28	Established a reliable distress beacon registration system	1.0	0	1.0	1.0	1.0		1.0		1.0		0.5	1.0		1.0	
29	Planned and prepared for the implementation of next generation beacons	0.5	0	0.0	0.5	1.0		1.0		0.6		0.5	1.0		1.0	
30	Established an appropriate nationwide means of disposal for old distress beacons	1.0	0	0.0	1.0	0.0		1.0		0.5		0.0	0.5		1.0	
31	Established contingency facilities, or procedures for the temporary delegation of SAR to another body or State	1.0	0	0.0	0.7	0.8		1.0		0.4		0.5	0.5		1.0	
32	Established a centralised information source publishing all AIP information required on SAR	1.0	0	0.0	1.0	1.0		1.0		0.8		0.5	0.5		1.0	
33	Established an Internet-based SAR information sharing system	1.0	0	0.0	1.0	0.8		1.0		0.0		0.5	0.5		1.0	
34	Established systems for the maximum practicable cooperation between State entities for information when required	1.0	0	0.0	1.0	1.0		1.0		0.6		1.0	0.5		1.0	
35	Developed and maintained a current, comprehensive electronic list of State SAR Facilities, SAR Equipment, and SRUs	0.5	0	0.0	1.0	1.0		1.0		0.8		0.5	0.7		1.0	
36	Established an Internet-based SAR Library, or cooperate by contributing to an Internet-based Asia/Pacific resource	1.0	0	0.0	0.5	1.0		1.0		1.0		0.0	0.8		1.0	
37	Provided each RCC and SAR Authority with ready access to a current copy of SAR reference documents	1.0	0	1.0	1.0	1.0		1.0		1.0		1.0	1.0		1.0	
38	Conducted regular SAREX to test and evaluate coordination procedures, data and information sharing and SAR responses	0.5	0	0.0	0.7	1.0		1.0		0.9		1.0	0.8		1.0	
39	Implemented SAR System Improvement and Assessment measures, including Safety Management and QA systems	0.5	0	0.0	1.0	0.5		1.0		0.4		0.5	0.5		1.0	
40	Conducted an annual or more frequent analysis of their current State SAR system to identify specific gaps in capability	0.5	0	0.0	1.0	0.5		1.0		0.6		0.5	1.0		1.0	
41	Conducted SAR promotional programs	1.0	0	0.0	1.0	1.0		1.0		0.6		1.0	1.0		1.0	
Total (of 41)		35.5	7.0	12.5	36.2	37.4	0.0	41.0	0.0	31.9		28.5	32.1	0.0	40.7	
		%	87%	17%	30%	88%	91%	0%	100%	0%	78%	0%	70%	78%	0%	99%

*2021 Update - Higher than previous year
*2021 Update - Less than previous year
*2021 Update - No Change

**REGIONAL SAR PLAN MONITORING AND REPORTING FORM
SAR PERFORMANCE INDICATORS**

Following is a bank of indicators based on the Asia/Pacific Plan's performance improvement section (which should be read in conjunction with these questions), that can be used to assess whether an administration is either compliant or not and to internally evaluate their implementation status of the Asia/Pacific SAR Plan. Using the drop down menu for each of the 41 elements, please indicate implementation status with either 0 (not implemented), or 0.5 (50% implemented - note - other partial implementation may be indicated such as 0.1 = 10%) or 1 (fully implemented).

		Vanuatu	Viet nam
Indicate whether your Administration has:			
1	Enacted legislation that incorporates or is aligned to applicable international Conventions		1.0
2	Unless delegated, established an entity that provides 24-hour SAR services within its area of responsibility/SRR		1.0
3	Established a national SAR committee		1.0
4	Empowered SAR Mission Coordinators with the authority to adequately carry out their responsibilities		1.0
5	Established an Administrative Single Point of Contact for SAR (ASPOCS) for non-urgent, administrative matters		1.0
6	Conducted studies to integrate aviation and maritime SAR, and as far as practicable, civil and military activities		1.0
7	Conducted studies to align, as far as practicable, aeronautical and maritime SRRs, and SRRs and FIRs		1.0
8	Established a single State SAR Plan		1.0
9	Established aerodrome emergency plans that provide for co-operation and co-ordination with RCCs		1.0
10	Established SAR agreements with States having adjoining SRRs or FIRs		0.5
11	Provided up to date cross-border information on SAR capability to adjoining States		1.0
12	Pre-arranged procedures for cross-border SAR responses		1.0
13	Established RCC plans for response to Mass Rescue Operations (MROs) integrated with national disaster plans		0.5
14	Established operational plans and procedures for SRUs, provision of support, communication and reporting		1.0
15	Established SAR Alerting procedures which are tested, integrated and include civil/military protocols		1.0
16	Provided a fully equipped RCC of sufficient size with adequate provision for operational positions and human factors		1.0
17	Provided adequate supervisory ATC resources to allow timely SAR alerts and information to RCCs		1.0
18	Provided sufficient RCC staffing		1.0
19	Provided a sufficient number of trained specialist RCC officers including SMCs and A/SMCs		0.5
20	Availability of a pool of RCC support staff who are familiar with RCC operations, but not trained as coordinators		1.0
21	Developed SAR personnel position descriptions detailing responsibilities and eligibility criteria		1.0
22	Developed a comprehensive training programme that includes SAR training for SAR Coordinators and SRU staff		1.0
23	Facilitated RCC staff to be proficient in the English language		0.5
24	Facilitated a programme of regular liaison visits between relevant RCCs, ATC units and airline operating centres		1.0
25	Established additional oceanic SAR capability as far as practicable to ensure a timely and adequate SAR response		1.0
26	Established sufficient SRU capabilities (crews, availability, military assets, communications, authority, etc.)		1.0
27	Established procedures and necessary infrastructure to coordinate distress beacon alert responses		1.0
28	Established a reliable distress beacon registration system		1.0
29	Planned and prepared for the implementation of next generation beacons		1.0
30	Established an appropriate nationwide means of disposal for old distress beacons		1.0
31	Established contingency facilities, or procedures for the temporary delegation of SAR to another body or State		1.0
32	Established a centralised information source publishing all AIP information required on SAR		1.0
33	Established an Internet-based SAR information sharing system		1.0
34	Established systems for the maximum practicable cooperation between State entities for information when required		1.0
35	Developed and maintained a current, comprehensive electronic list of State SAR Facilities, SAR Equipment, and SRUs		1.0
36	Established an Internet-based SAR Library, or cooperate by contributing to an Internet-based Asia/Pacific resource		0.5
37	Provided each RCC and SAR Authority with ready access to a current copy of SAR reference documents		1.0
38	Conducted regular SAREX to test and evaluate coordination procedures, data and information sharing and SAR responses		1.0
39	Implemented SAR System Improvement and Assessment measures, including Safety Management and QA systems		1.0
40	Conducted an annual or more frequent analysis of their current State SAR system to identify specific gaps in capability		1.0
41	Conducted SAR promotional programs		1.0
Total (of 41)		0.0	38.5

%

0%

94%

*2021 Update - Higher than previous year

*2021 Update - Less than previous year

*2021 Update - No Change

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APSAR/TF - TASK LIST

(Last amended APSAR/WG/6, May 2020)

ID	Task Description	Start Date	Expected Finish Date	Resource Names/Remarks
3/6	ICAO noted that, given the unique systems used by SAR, it was optimal for SAR personnel to be specialised. However, it was also noted that it was advantageous for at least some RCC staff to have had ATC experience. ICAO recalled the resource constraints and difficulties in managing the unfamiliar task of interacting with the public and media that Malaysian personnel experienced during the MH370 tragedy. Therefore, using current air traffic controllers for SAR responses was appropriate where there were resource constraints, but it was more optimal to have specialised SAR officers.	APSAR/WG/3	APSAR/WG/6 Closed	Asia/Pacific SAR Plan Review 2022 Carried into SAR Plan V3.3
4/1	States should provide feedback to Cospas-Sarsat on the status of the registration systems that were maintained by individual States.	May 2019	APSAR/WG/5 On-going Closed	All APAC States APSAR/WG/6 – merged with Task 5/1
4/2	ICAO requested that States monitor and report the effectiveness of their false alert education programmes.	May 2019	APSAR/WG/5 On-going	All APAC States Updated to ‘ongoing’ at APSAR/WG/6
4/4	China was requested to submit information on the BDS capability to the ICAO-IMO Joint Working Group on SAR and the Cospas-Sarsat JC.	May 2019	31 December 2020 Completed	China APSAR/WG/6 IP/09
4/6	China and Nepal were requested to provide more detailed analysis of the investigations into ELT non-activation problems in mountainous and high terrain areas.	May 2019	APSAR/WG/6 APSAR/WG/7	China and Nepal APSAR/WG/6 – update: there was insufficient data so far available to progress this task. Future update to be provided.

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ID	Task Description	Start Date	Expected Finish Date	Resource Names/Remarks
5/1	<p>Cospas-Sarsat requested States to provide: (a) feedback for possible improvements after receipt of a distress alert from Global Maritime Distress Safety System (GMDSS) mobile satellite service providers, including Cospas-Sarsat; and</p> <ul style="list-style-type: none"> a) provide feedback on notifications about system developments; b) provide feedback on the Cospas-Sarsat Video Library; c) participate in the development of modifications to distress alert message format; and d) (b) provide details of any existing MCC-SPOC agreements/arrangements, and proposals for improving MCC-SPOC communications during tests and real alerts. e) provide feedback to Cospas-Sarsat on the status of the registration systems that were maintained by individual States (prev task 4/1) 	APSAR/WG/5	APSAR/WG/6 APSAR/WG/7	APSAR/WG/4 Task 4/1 APSAR/WG/5/WP03 – APAC States APSAR/WG/6 WP/05 – APAC States
5/2	<p>States to use APSAR/WG/5/WP06/Attachment A APSAR/WG/6 WP/04 Attachment A (the International Maritime Organisation’s IMO Interim Guidance for SAR Services Regarding Implementation of Autonomous Distress Tracking of Aircraft in Flight) as a means to have their aeronautical and maritime SAR services coordinate to develop national and regional response procedures for ADT</p>	APSAR/WG/5	APSAR/WG/6 APSAR/WG/7	APSAR/WG/5/WP06 – APAC States APSAR/WG/6/WP04 – APAC States
6/1	<p>Adapt ADT Implementation Guidance from APSAR/WG/6 WP/04 Attachment A for inclusion in updated Regional SAR Plan</p>	APSAR/WG/6	APSAR/WG/7	APSAR/WG/6 WP/04 – USA

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ID	Task Description	Start Date	Expected Finish Date	Resource Names/Remarks
6/2	Develop a generic version of the MOU between the SAR Service and the Accident Investigation Authority for inclusion in updated Regional SAR Plan	APSAR/WG/6	APSAR/WG/7	APSAR/WG/6 WP/09 – Australia, Singapore, USA (includes WP to ICAO/IMO JWG September 2021 to seek input).
6/3	2022 Update of Regional SAR Plan	APSAR/WG/6	APSAR/WG/7	APSAR/WG/6 WP/10 – Australia, Singapore, USA, coordinated by ICAO Regional Office, including coordination with other ICAO Regions for updated SAR plans.

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UPDATED: 04 May 2021

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<i>ADM= Administration, AIS= Aeronautical Information Service, ARC= Asia/Pacific Region ATS Route Catalogue ATC= Air Traffic Control, CCT= Contingency Coordination Team, SAF= Safety, SAR= Search and Rescue</i>				
	AFGHANISTAN			
CCT	Mr. Ahmad Jawid Shahryar	Deputy DG for operations	Tel: +93700244349	shahryar@aca.gov.af ; shahryarjawid@gmail.com ;
CCT	Mr. Gh Masoom Masoomi	Director of ATM	Tel: +93786308480	Yama_masoomi@yahoo.com ;
CCT	Mr.Zabiullah Ahmadi	Head ATS section	Tel: +93729111032	za_twr@yahoo.com ;
ATC	Mr. Mohammad Qayoum Najim	Manager of Kabul ACC	Tel: +93794097917	qayoumsamim@gmail.com ;
ATC	Mr. James Hermsdorfer	RMS FM, Kabul ACC.	Tel: +93785813203 +93708258934	james.hermsdorfer@iapws.com ;
ATC	Mr. Haseebullah Zargar	ATC at Kabul ACC	Tel: +93798127848	haseebhaqyar@gmail.com ;
ATC	Ms. Meheria Khalil	Manager Kabul App	Tel: +93703718647	mikeromeo31@yahoo.com ;
ARC	Mr. Prasad Selvaraj	Afghanistan AIS Staff		Prasad.Selvaraj@iapws.com
AIS	Mr. Ahmad Sohaib Sahebdel	Head AIS and ATS training	Tel: +93729111024	sohaibshuja@yahoo.com ;
AIS	Mr. Zabiullah Marouf	AIS manager	Tel: +93749073202	zabihmarouf@gmail.com ;
ADM	Mr. Haroon Noori	Chief Int relations	Tel: +93708177588	Haroon.noori1993@gmail.com ;
	ARMENIA			
CCT	Mr. Artur Gasparyan	Director General "ARMATS" CJSC	Tel: +374 10284142 Fax: +374 10284142	arthur.gasparyan@armats.am ;

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CCT	Mr. Sergey Danielyan	Chief of ATC Centre ARMATS	Tel: +37410282673 Fax: +37410282673	sergey.danielyan@armats.am ;
	AZERBAIJAN			
CCT	Mr. Bala Mirzayev	Head of ATS, Azeraeronavigation	Tel: +99 4124971604 Fax: +99 4124971604	BalaMirzayev@azans.az ;
CCT	Mr. Agabek Balabekov			agabek.balabekov@azans.az ;
	AUSTRALIA			
SAR	Mr. Scott Constable	Principal Advisor Aviation Response Policy—Standards Australian Maritime Safety Authority GPO Box 2181 Canberra ACT 2601 Principal Advisor Aviation Policy Australian Maritime Safety Authority GPO Box 2181 Canberra ACT 2601	Tel: +61 2 6279 5706 Mobile: +61 459 164 627	scott.constable@amsa.gov.au ;
ATC	Mr. Neil Bain	ATS Specialist Team Leader Operational Standards Airservices Australia Locked Bag 747 Eagle Farm, Qld, 4009	Tel: +61 7 3866 3526 Fax: +61 7 38663742 Mobile: +61 409069851	neil.bain@airservicesaustralia.com ; international@airservicesaustralia.com ;

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AIS	Mr. Timothy Hurley	Aviation Safety Inspector (AIM & IFP) Civil Aviation Safety Authority GPO Box 2005, Canberra ACT 2600	Tel: +61 7 3144 7609 Fax: +61 7 3144 755	timothy.hurley@casa.gov.au ;
AIS	Mr. Matt Thomas	AIS Business Manager Airservices Australia	Tel: +61 2 6268 4427	Matthew.Thomas@airservicesaustralia.com ; international@airservicesaustralia.com ;
SAF	Dr. Amelia Gontar	Risk Intelligence Specialist Safety and Assurance Airservices Australia Australian Airspace Monitoring Agency (AAMA)		aama@airservicesaustralia.com ; international@airservicesaustralia.com ;
ARC	Mr. Timothy Hurley	Air Navigation, Airspace and Aerodromes Branch Civil Aviation Safety Authority Australia		timothy.hurley@casa.gov.au ;
ADM	Ms. Pip Spence	Deputy Secretary Department of Infrastructure and Regional Development GPO Box 594 Canberra ACT 2601	Tel: +61 (2) 6274 7086 Fax: +61 (2) 6274 7804	austicao@infrastructure.gov.au ; InternationalICAO@infrastructure.gov.au ;
ADM	Mr. Andrew Sparrow	Section Head Air Navigation, Airspace and Aerodromes Branch Civil Aviation Safety Authority GPO Box 2005 Canberra ACT 2601	Tel: +61 2 6217 1690 Fax: +61 2 6217 1500	andrew.sparrow@casa.gov.au ;
	BAHRAIN			
CCT	Abdallal Alquadhi	Director AIS		aalqadhi@mtt.gov.bh ;

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CCT	Ahmed Bucheery	Director ATM		aalqadhi@mtt.gov.bh ;
	BANGLADESH			
SAR	Md. Kamal Miah Sarker	Assistant Director Air Traffic Control Center Hazrat Shahjalal International Airport, Dhaka.	Tel: +8801967520924	kamalm.sarker@yahoo.com ;
SAR	Md. Shakhaoat Hossain	Aerodrome Officer Air Traffic Control Center Hazrat Shahjalal International Airport, Dhaka.	Tel: +8801792252519	shakhaoat@gmail.com ;
CCT	Md. Mizanur Rahman	Director (ATM) ATM Division Civil Aviation Authority of Bangladesh	Tel: +88028901404, +8801911529066	dats@caab.gov.bd ; azad_mizan@yahoo.com ;
CCT	Md. Masud Rana	Deputy Director (ATM) ATM Division Civil Aviation Authority of Bangladesh	Tel: +8801913575853	mdmrana@yahoo.com ; ddats@caab.gov.bd ;
ATC	Md. Masud Rana	Deputy Director (ATM) ATM Division Civil Aviation Authority of Bangladesh	Tel: +8801913575853	mdmrana@yahoo.com ; ddats@caab.gov.bd ;
ATC	Mohammad Shamsudduha	Senior Aerodrome Officer Air Traffic Control Center Hazrat Shahjalal International Airport, Dhaka.	Tel: +8801913575769	sdoha70@gmail.com ;
AIS	Sabera Rahman	Assistant Director (ATS) ATM Division Civil Aviation Authority of Bangladesh	Tel: +8801715161126	mitasr@gmail.com ; adaishq@caab.gov.bd ;

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AIS	Sultanul Arefin	Aerodrome Officer ATM Division Civil Aviation Authority of Bangladesh	Tel: +8801618886619	emailarafin@gmail.com ; adaishq@caab.gov.bd ;
SAF	A K M Faizul Haque	Director (Air Transportation) FSR Division Civil Aviation Authority of Bangladesh	Tel: +880 2 890415, +8801715063505	faizul.dat@caab.gov.bd ; faizul1964@gmail.com ;
ARC	Sabera Rahman	Assistant Director (ATS) ATM Division Civil Aviation Authority of Bangladesh	Tel: +8801715161126	mitasr@gmail.com ;
ARC	Md. Shakhawat Hossain	Senior Aerodrome Officer Air Traffic Control Center Hazrat Shahjalal International Airport, Dhaka	Tel: +880708167127	mshossain25ju@gmail.com ;
ADM	Air Vice Marshal M Mafidur Rahman	Chairman Civil Aviation Authority of Bangladesh	Tel: +88028901400 +8801708167001 Fax: +88028901411	chairman@caab.gov.bd ;
ADM	Air Commodore Md Aminul Islam	Member (Air Traffic Management) ATM Division Civil Aviation Authority of Bangladesh	Tel: +88028901241, +880 1708167340, +880 1712569054	matm@caab.gov.bd ;
ADM	Md. Mizanur Rahman	Director (ATM) ATM Division Civil Aviation Authority of Bangladesh	Tel: +88028901404, +8801911529066	dats@caab.gov.bd ; azad_mizan@yahoo.com ;
	BHUTAN			

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SAR	Mr. Yonten Dendup	ATS/SAR Inspector Air Navigation Services Section Bhutan Civil Aviation Authority (BCAA) 2nd Floor BCAA Building, Paro Int. Airport - Bhutan	Tel: +975 (8) 271 374 (Ext. 219)	ydendup@bcaa.gov.bt ;
SAR	Mr. Karma Yonten	Sr. ATCO/AIS Officer ANSP Division Department of Air Transport Paro Int. Airport - Bhutan	Tel: +975 (8) 272306	kyonten@doat.gov.bt ;
ATC	Ms. Phuntsho Yeozzer	ATC Officer ANSP Division Department of Air Transport Paro Int. Airport - Bhutan	Tel: +975 (8) 272306	Pyeozzer@doat.gov.bt ;
ATC	Mr. Yonten Dendup	ATS Inspector Air Navigation Services Section Bhutan Civil Aviation Authority (BCAA) 2nd Floor BCAA Building, Paro Int. Airport - Bhutan	Tel: +975 (8) 271 374 (Ext. 219)	ydendup@bcaa.gov.bt ;
AIS	Mr. Kencho Tshering	AIS/CHARTS/PANS-OPS Inspector Air Navigation Services Section Bhutan Civil Aviation Authority (BCAA) 2nd Floor BCAA Building, Paro Int. Airport - Bhutan	Tel: +975 (8) 271 374 (Ext. 217)	ktshering@bcaa.gov.bt ;

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SAF	Mr. Kencho Tshering	AIS/CHARTS/PANS-OPS Inspector Air Navigation Services Section Bhutan Civil Aviation Authority (BCAA) 2nd Floor BCAA Building, Paro Int. Airport - Bhutan	Tel: +975 (8) 271 374 (Ext. 217)	ktshering@bcaa.gov.bt ;
SAF	Ms. Kinley Yangden	AIS Officer ANSP Division Department of Air Transport Paro Int. Airport - Bhutan	Tel: +975 (8) 272306	kyangden@doat.gov.bt ;
ARC	Mr. Kencho Tshering	AIS/CHARTS/PANS-OPS Inspector Air Navigation Services Section Bhutan Civil Aviation Authority (BCAA) 2nd Floor BCAA Building, Paro Int. Airport - Bhutan	Tel: +975 (8) 271 374 (Ext. 217)	ktshering@bcaa.gov.bt ;
ADM	Mr. Kinley Wangchuk	Director (Head) Bhutan Civil Aviation Authority (BCAA) 1 st Floor BCAA Building, Paro Int. Airport - Bhutan	Tel: +975 (8) 271 374 (Ext. 207)	kinleyw@bcaa.gov.bt ; bcaa-techdiv@bcaa.gov.bt ;
ADM	Mr. Karma Wangchuk	Director (Head) Department of Air Transport (DoAT) Paro Int. Airport - Bhutan	Tel: +975 (8) 271 403	kwangchuk@doat.gov.bt ;

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	BRUNEI DARUSSALAM			
SAR	Mr. Hafizul Bin Hj Abdul Hamid	Search and Rescue Officer Department of Civil Aviation BB2513 Brunei Darussalam	Tel: +6738249229(M) +6732330142(O)	hafizul.hamid@civil-aviation.gov.bn ;
ARC	Mr. Mohammad Nazri bin Mohammad Yusof	Director of Civil Aviation Department of Civil Aviation Ministry of Communications		nazri.yusof@civil-aviation.gov.bn ;
	CAMBODIA			
SAR	Capt. Kim Sophorn	Under Secretary of State, State Secretariat of Civil Aviation of Cambodia	Tel: +855 15 883 388 +855978 883 336 Fax: +855 23 222 035	ssca_kimsophorn@yahoo.co ;
SAR	Mr. Em Yuthea	Deputy Director General for Operations and Technical Permanent member, Disaster Secretariat of State Secretariat of Civil Aviation State Secretariat of Civil Aviation of Cambodia	Tel: +855 98 658 168 Fax: +855 23 809 106	emyuthea@gmail.com ; emyuthea@civilaviation.gov.kh ; emyuthea@ssca.gov.kh ;
SAR	Mr. Khun Chantheara	Chief of Search and Rescue ANS Department State Secretariat of Civil Aviation (SSCA) No. 44 Phnom Penh International Airport Russian Federation Blvd.	Tel: +855 23 890 160 Fax: +855 23 890 159 H/P: +855 15 222392	kctkhunchantheara@gmail.com ; kctheara@ssca.gov.kh ;
CCT	Ms. Tith Phoumith	Deputy Director of ANS Department State Secretariat of Civil Aviation No. 44 Phnom Penh International Airport Russian Federation Blvd.	Tel: +855 23 890 160 Fax: +855 23 890 159 H/P: +855 16 354 519	tphoumith9999@gmail.com ; tithphoumith@ssca.gov.kh ;

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<i>ADM= Administration, AIS= Aeronautical Information Service, ARC= Asia/Pacific Region ATS Route Catalogue ATC= Air Traffic Control, CCT= Contingency Coordination Team, SAF= Safety, SAR= Search and Rescue</i>				
ATC	Ms. Tith Phoumith	Deputy Director of ANS Department State Secretariat of Civil Aviation No. 44 Phnom Penh International Airport Russian Federation Blvd.	Tel: +855 23 890 160 Fax: +855 23 890 159 H/P: +855 16 354 519	tphoumith9999@gmail.com ; tithphoumith@ssca.gov.kh ;
AIS	Mr. Peou Vuthy	Chief of AIS State Secretariat of Civil Aviation (SSCA) No. 44 Phnom Penh International Airport Russian Federation Blvd.	Tel: +855 23 890 160 Fax: +855 23 890 159	ansops_ssca@yahoo.com ;
SAF	Ms. Tith Phoumith	Deputy Director of ANS Department State Secretariat of Civil Aviation No. 44 Phnom Penh International Airport Russian Federation Blvd.	Tel: +855 23 890 160 Fax: +855 23 890 159 H/P: +855 16 354 519	tphoumith9999@gmail.com ; tithphoumith@ssca.gov.kh ;
ARC	Mr. Kim Rathanak	Chief of Flight Procedure Design and Chart ANS Department State Secretariat of Civil Aviation (SSCA) No. 44 Phnom Penh International Airport, Russian Federation Blvd., Khan Por Senchey	Tel: +855 23 890 160 Fax: +855 23 890 159	k_rathanak@yahoo.com ;
ADM	Mr. Bean Han	Deputy Chief of Technical Document ANS Department State Secretariat of Civil Aviation (SSCA) No. 44 Phnom Penh International Airport, Russian Federation Blvd., Khan Por Senchey	Tel: +855 23 890 160 Fax: +855 23 890 159	hanbean79@ssca.gov.kh ;
ADM	Capt. Kim Sophorn	Under Secretary of State State Secretariat of Civil Aviation	Tel: +855 15 883 388/ 978 883 336 Fax: +855 23 222 035	ssca_kimsophorn@yahoo.com ;

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	CHINA			
CCT	Mr. Wang Haibo	Director of Department of General Affairs CAAC	Tel: +86 10 64091504 Mobile: +86 13 911403951	
CCT	Mr. Li Zhe	Deputy Director of Emergency Response Office CAAC	Tel: +86 10 64092125 Mobile: +86 15 810978307	lizhe00162@163.com ;
AIS	Mr. Su Hang	Deputy Director, ATC Division of ATMB of CAAC	Tel: +86 10 8778 6813 Fax: +86 10 8778 6810	hanssued@atmb.net.cn ;
AIS	Mr. Zhang Baiweng	Deputy Director, AIS Center of ATMB of CAAC	Tel: +86 10 6749 9218	zhangbaiweng@sina.com ;
SAF	Ms. Susan Jun Zhao	Coordinator of China RMA, ADCC, ATMB of CAAC		rmachina@rmachina.cn ;
SAF	Mr. Zou Guoliang	Deputy Director of Safety Management Division Civil Aviation Administration of China No. 155 Dongsi Xidajie, Beijing 100710	Tel: +86 10 640 92676 Fax: +86 10 640 92646	Gl_zou@caac.gov.cn ;
SAF	Ms Liu Yang	Deputy Director Safety Division of the Office of Air Traffic Regulation	Tel: +86 10 64092636	liuyang@caac.gov.cn ;
SAF	Ms Li Xiaomeng	Assistant Safety Division of the Office of Air Traffic Regulation	Tel: +86 10 64092679	xm_li@caac.gov.cn ;
ARC	Ms. Wang Mingxin	Engineer of Airspace Management Office of AMC ATMB	Tel: +86 10 8647 2590	18500163429@163.com ;

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ADM	Ms. Zhao Can	Engineer ADCC, ATMB, CAAC Floor 14, Bai Yan Building, No. 238 Bei Si Huan Zhong Road, Haidian, District, Beijing	Tel: +86 10 82325050-6815 Fax: +86 10 82325552	zhaoc@adcc.com.cn ;
ADM	Mr. Tian Fang	Director International Cooperation Division of ATMB, CAAC #12 East San-huan Road Middle, Chaoyang District, Beijing	Tel: +86 10 87786051 Fax: +86 10 87786055	tianfang@atmb.net.cn ;
ADM	Mr. Guo Hang	Assistant of ATC Division, ATMB of CAAC No.12 East 3rd Ring Road Middle Chaoyang District, Beijing	Tel: +86 10 8778 6861 Fax: +86 10 8778 6810	guohang@atmb.net.cn ;
ADM	Mr. Su Hang	Deputy Director ATC Division of ATMB, CAAC #12 East San-huan Road, Middle Chaoyang District, Beijing	Tel: +86 10 8778 6813 Fax: +86 10 8778 6810	hanssued@atmb.net.cn ;
ADM	Mr. Wang HaoYu	Engineer ADCC, ATMB, CAAC Floor 14, Bai Yan Building, No. 238 Bei Si Huan Zhong Road, Haidian, District, Beijing	Tel: +86 10 82325050-6965 Fax: +86 10 82325552	wanghy@adcc.com.cn ;
ADM	Ms. Hu Huiling	Deputy Director of ATC Division Middle & South Regional ATMB of CAAC No.3 Nanyundong street, Jichang Road, Guangzhou	Tel: +86 20 86122223 Fax: +86 20 36229685	hhl@atmb.org ;

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ADM	Mr. Li Jingwei	Assistant ATC Division of ATMB, CAAC #12 East San-huan Road, Middle Chaoyang District, Beijing	Tel: +86 10 8778 6828 Fax: +86 10 8778 6810	lijingwei@atmb.net.cn ;
ADM	Mr. Wang Jun	Assistant ATC Division of ATMB, CAAC #12 East San-huan Road, Middle Chaoyang District, Beijing	Tel: +86 10 8778 6819 Fax: +86 10 8778 6810	junwang@atmb.net.cn ;
ADM	Mr. Kang Nan	Deputy Director of ATC Division ATMB, CAAC #12 East San-Huan Road Middle, Chaoyang District, Beijing	Tel.: +86 010 87786812 Fax: +86 010 87786810	knknkn222@163.com ;
ADM	Ms. Zhang Ying	Deputy director of Planning and Research Office of Airspace Management Centre of ATMB, CAAC	Tel: +86 10 86472572	zhangying@atmb.net.cn ;
ADM	Mr. Zhao Tong	Assistant of Air Traffic Control Division Southwest Regional ATMB of CAAC Shuangliu International Airport, Chengdu, Sichuan	Tel: +86 28 85705307 Fax: +86 28 85706376	zhaotong2000@gmail.com ;
ADM	Mr. Li Xingchao	Engineer ATMB of CAAC No.12 Dongsanhuan Middle Rd., Chaoyang District, Beijing	Tel: +86 10 8778 6569 Fax: +86 10 8778 6464	5518437@qq.com ;

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ADM	Ms. Huang Yan	Administration Office Manager East China Regional ATMB of CAAC No.171 First Airport Rd, Changning District Shanghai	Tel: +86 21 2232 6511 Fax: +86 21 2232 6510	huangyantina@sina.com ;
ADM	Mr. Feng Zhenglin	Administrator Civil Aviation Administration of China 155 Dongsu Street West Beijing 100710	Tel: +86 10 64092517 Fax: +86 10 64016918, 64091341	china_icao@caac.gov.cn ;
HONG KONG, CHINA				
SAR	Mr. Terence KC Chan	Senior Operations Officer (Support) 2 3/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong	Tel: +852 2910 6466 Fax: +852 2910 0186	tkcchan@cad.gov.hk ;
CCT	Mr. TM Wong	Senior Operations Officer (Technical) 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong	Tel: +852 2910 6446 Fax: +852 2910 0186	tmwong@cad.gov.hk ;

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ATC	Ms. Sarah SN Wong	Senior Safety & Quality Officer (En-route) 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong	Tel: +852 2910 6448 Fax: +852 2910 0186	ssnwong@cad.gov.hk ;
AIS	Ms. Cheryl WS Chan (Primary point of contact)	Evaluation Officer 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong	Tel: +852 2910 6513 Fax: +852 2910 0186	cwschan@cad.gov.hk ;
AIS	Ms. Elsa TP Kwan	Operations Officer Aeronautical Information Management Centre, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong	Tel: +852 2910 6461 Fax: +852 2910 0186	etpkwan@cad.gov.hk ;
AIS	Ms. Gladys Koon	Electronics Engineer 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau, Hong Kong	Tel: +852 2910 6517 Fax: +852 2845 7160	gskoon@cad.gov.hk ;

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SAF	Mr. Taka CT Chow	Senior Safety Manager 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau	Tel: +852 2910 6442 Fax: +852 2910 0186	tctchow@cad.gov.hk ;
ARC	Mr. Timothy KC Yeung	Senior Operations Officer (Operations) 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau	Tel: +852 2901 6443 Fax: +852 2910 0186	tkcyeung@cad.gov.hk ;
ADM	Mr. Taka CT Chow (Primary Point of Contact)	Senior Safety Manager 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau	Tel: +852 29106442 Fax: +852 29100186	tctchow@cad.gov.hk ;
ADM	Ms. Mona LK Cheung (Alternate Point of Contact)	Assistant Director General of Civil Aviation (Air Traffic Management) 6/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport	Tel: +852 2910 6988 Fax: +852 2910 0139	mlkcheung@cad.gov.hk ;
	MACAO, CHINA			

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SAR	Mr. Taft Tat Ming LAM	Director of Airport Infrastructure & Air Navigation Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4127 Fax: +853 2833 8089	taflam@aacm.gov.mo ;
CCT	Mr. Stanley Wa Kin PUN	Vice President Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4136 Fax: +853 2833 8089	stanleypun@aacm.gov.mo ;
CCT	Mr. Bryan Kuan Hou CHIU	Safety Officer (ATC) Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4142 Fax: +853 2833 8089	bryanchiu@aacm.gov.mo ;
ATC	Mr. Bryan Kuan Hou CHIU	Safety Officer (ATC) Civil Aviation Authority – Macao, China SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4142 Fax: +853 2833 8089	bryanchiu@aacm.gov.mo ;
AIS	Mr. Edward Ip Veng Chon	Assistant Safety Officer (AIS) Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4118 Fax: +853 2833 8089	edwardip@aacm.gov.mo ;
AIS	Ms. Brendah Vai Man CHOI	Senior Head of AIC Service Airport Operations Department Macao International Airport Co. Ltd. Macao International Airport PAC on, Taipa	Tel: +853 8898 2200 Fax: +853 2886 1145	brendahchoi@aod.macau-airport.com ;

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SAF	Mr. Bryan Kuan Hou CHIU	Safety Officer (ATC) Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4142 Fax: +853 2833 8089	bryanchiu@aacm.gov.mo ;
ARC	Mr. Edward Ip Veng Chon	Assistant Safety Officer (AIS) Civil Aviation Authority of Macao		edwardip@aacm.gov.mo ;
ADM	Mr. Simon W. H. CHAN	President Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 2851 1213 Fax: +853 2833 8089	aacm@aacm.gov.mo ;
ADM	Mr. Stanley Wa Kin PUN	Vice President Civil Aviation Authority, Macao SAR 18/F, Cheng Feng Commercial Centre, 336-342, Alameda Dr. Carlos D'Assumpção, Macao	Tel: +853 8796 4136 Fax: +853 2833 8089	stanleypun@aacm.gov.mo ;
	DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA (DPRK)			
CCT	Mr. An Kyong Hwa	Deputy Director Air Traffic Management Bureau (ATM) General Administration of Civil Aviation	Tel: +850 2 18111 X 8108 Fax: +850 2 3814625 Ext-4625	gaca@silibank.net.kp ;
AIS	Mr. Kim Chol Guk	Officer Aeronautical Information Service, ATMD Sunan District, Pyongyang,	Tel: +850 2 18111 ext- 8108 Fax: +850 2 381 4625	gaca@silibank.net.kp ;

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ARC	Mr. Rj Yong Chol	Chief of ATS ATMD General Administration of Civil Aviation		gaca@silibank.net.kp ;
ARC	Mr. Kim Jong Chol	Officer Air Traffic Control Division, ATMD		
ADM	Mr. Rim Kwang Ung	Director General General Administration of Civil Aviation Sunan District Pyongyang	Tel: +850 (2) 18111 Ext. 8108 Fax: +850 (2) 3814410	gaca@silibank.net.kp ;
ADM	Mr. Mun Hyok Chol	Officer External Relations Department Sunan District, Pyongyang	Tel: +850 2 18111 ext- 8108 Fax: +850 2 381 4625	gaca@silibank.net.kp ;
	FIJI			
SAR	Mr. Amit Singh	ATM Co-Head Operations & Support Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906127	AmitS@fijiairports.com.fj ;
SAR	Ms. Alisi Namoro	Air Traffic Management Inspector Air Traffic Management & SAR Civil Aviation Authority of Fiji, Private Mail Bag, NAP 0354 Nadi International Airport	Tel: +679 8923167 +679 8923155 ext 3373 Fax: +67 9 672 0261	alisi.namoro@caaf.org.fj ;
CCT	Mr. Isei Tudreu	General Manager ATM & Operations Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906617	IseiT@fijiairports.com.fj ;

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CCT	Theresa Levestam	Controller Ground Safety Civil Aviation Authority of Fiji Private Mail Bag, NAP 0354 Nadi International Airport	Tel: +679 8923167 +679 8923155 ext 3371 Fax: +679 672 0261	cgs@caaf.org.fj ;
ATC	Mr. Amit Singh	ATM Co-Head Operations & Support Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906127	AmitS@fijiairports.com.fj ;
ATC	Mr. Ivan Wong	ATM Co-Head Operations Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906128	IvanW@fijiairports.com.fj ;
ATC	Mr. Makiti Raratabu	Air Traffic Management Inspector Air Traffic Management & Meteorology Civil Aviation Authority of Fiji, Private Mail Bag, NAP 0354 Nadi International Airport	Tel: +679 8927907 +679 8923155 ext 3405 Fax: +679 672 0261	makiti.raratabu@caaf.org.fj ;
AIS	Mr. Amit Singh	ATM Co-Head Operations & Support Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906127	AmitS@fijiairports.com.fj ;
AIS	Theresa Levestam (Interim)	Controller Ground Safety Civil Aviation Authority of Fiji Private Mail Bag, NAP 0354 Nadi International Airport	Tel: +679 8923167 +679 8923155 ext 3371 Fax: +679 672 0261	cgs@caaf.org.fj ;

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SAF	Mr. Isei Tudreu	General Manager ATM & Operations Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906617	IseiT@fijiairports.com.fj ;
ARC	Mr. Amit Singh	ATM Co-Head Operations & Support Fiji Airports Limited Private Mail Bag Nadi Airport	Tel: +679 6725777 Fax: +679 6731125 Mobile: +679 9906127	AmitS@fijiairports.com.fj ;
ARC	Theresa Levestam (Interim)	Controller Ground Safety Civil Aviation Authority of Fiji Private Mail Bag, NAP 0354 Nadi International Airport	Tel: +679 8923167 +679 8923155 ext 3371 Fax: +679 672 0261	cgs@caaf.org.fj ;
ADM	Alumita Lagicere	P O Box 2213 Government Buildings Suva, Fiji		alagicere@govnet.gov.fj ;
	FRANCE (FRENCH POLYNESIA)			
SAR	Mr. Antoine FERRI	Head of JRCC Tahiti – French Polynesia JRCC Tahiti	Tel: +689 4054 1618 Fax: +689 4042 3915 Mobile: +689 8775 7424	directeur@jrcc.pf ;

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ATC	Mr. Nicolas Hinchliffe	Head of ATC Department SEAC/PF – DGAC	Tel: +689 4086 1147 Fax: Mobile: +689 8953 4894	nicolas.hinchliffe@aviation-civile.gouv.fr ;
ARC	Mr. Nicolas Hinchliffe	Head of ATC Department SEAC/PF – DGAC	Tel: +689 4086 1147 Fax: Mobile: +689 8953 4894	nicolas.hinchliffe@aviation-civile.gouv.fr ;
ADM	Mr. PERETTI Charles	Head of ATS Division Department of Civil Aviation BP6011 – 98702 Faaa	Tel: +689 40 86 10 41 +689 782 440 Fax: +689 40 86 13 29	charles.peretti@aviation-civile.gouv.fr
ADM	Mr. Patrick Mouysset	Director Civil Aviation Authority		lucette.lasserre@aviation-civile.gouv.fr ;
	FRANCE (NEW CALEDONIA)			
ATC	M. Thierry HORLAIT	Head of Tontouta Air Traffic Services Head of New Caledonian ARSC	Tel: +687 35.24.01 Mobile: +687 78 57 39	
ARC	Mr. Jean Claude Gouhot	Director, Department of Civil Aviation New Caledonia, France		jean-claude.gouhot@aviation-civile.gouv.fr ;
ARC	Mr. Christophe Verges	Deputy Director, Department of Civil Aviation New Caledonia, France		christophe.verges@aviation-civile.gouv.fr ;
ARC	Mr. Jude Mariadassou (copy to)	Chef du bureau "coordination multilatérale" Sous direction de l'Europe et de l'international, Direction Générale De L'aviation Civile		jude.mariadassou@aviation-civile.gouv.fr ;

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ADM	Mr. Delvallee Olivier	Head of ATS Division Department of Civil Aviation, Air Navigation Service, BP H1 Noumea Cedex	Tel: +687 265643	olivier.delvallee@aviation-civile.gouv.fr ;
ADM	Mr. Calmejane Patrick	Head of Air Navigation Service Department of Civil Aviation Air Navigation Service, BP H1 Noumea Cedex	Tel: +687 26 52 70	patrick.calmejane@aviation-civile.gouv.fr ;
	INDIA			
SAR	Mr. Kalyan Choudhury	Executive Director (ATM) Airports Authority of India, Rajiv Gandhi Bhawan, Safdarjung Airport, New Delhi -110003	Tel: +91 11 2463 1684 Fax: +91 11 2461 1078 Mobile: +91 9161005544	edatm@aai.aero ;
SAR	Mr. M. Muthu	General Manager (ATM-SAR) Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003	Tel: +91 11 24610204 Fax: Mobile: +91 7303518877	gmsar@AAI.AERO ;
CCT	Mr. A K Meena	Executive Director (Air Space Management) Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003	Tel: +91 11 24632992 Fax: +91 11 24610528 Mobile: +91 9650108662	edasm@aai.aero ;

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CCT	Mr. K Vasudevan	General Manager (Air Space Management) Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003	Tel: +91 11 24629012 Fax: +91 11 24610528 Mobile: +91 9920065132	gmasm@aai.aero ;
ATC	Watch Supervisory Officer, Chennai FIR	Area Control Centre, Chennai Airport, Chennai	Tel: +91 44 22560894 Fax: +91 44 22561365 (24 hours) Mobile: +91 9514074449	vomm.wso@aai.aero ;
ATC	Watch Supervisory Officer, Delhi FIR	Area Control Centre, I.G.I. Airport, New Delhi	Tel: +91 11 25653283, +91 11 28705100 Fax: +91 11 25653284 (24 hours) Mobile: +91 7290017580	wsoigidelhi@aai.aero ;
ATC	Watch Supervisory Officer, Kolkata FIR	Area Control Centre, NSCBI Airport, Kolkata	Tel: +91 33 25119520 Fax: +91 33 25130134 (24 hours) Mobile: +91 9831479366	vecc.wso@aai.aero ;
ATC	Watch Supervisory Officer, Mumbai FIR	Area Control Centre, CSI Airport Mumbai	Tel: +91 22 20888088 Fax: +91 22 26828066 (24 hours) Mobile: +91 9869062250	vabb.wso@aai.aero ;

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AIS	Mr. Davinder Arora	General Manager (ATM-AIS/SAR) Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003	Tel: +91 11 24615508 Fax: +91 11 24615508 Mobile: +91 9871405220	gmais@aai.aero ;
AIS	Mr. Yogendra Kumar Rohilla	Jt. General Manager (ATM-AIS & SAR) Airports Authority of India Rajiv Gandhi Bhawan Safdarjung Airport New Delhi – 110003	Tel: +91 11 24610536 Fax: +91 11 24615508 Mobile: +91 9910840303	yogendra@AAI.AERO ;
SAF	Mr. A. P. Udayanarayanan	Joint General Manager (ATM) India Bay of Bengal Arabian Sea Indian Ocean Safety Monitoring Agency (BOBASMA)	Tel: +91 44 22561253 Fax: +91 44 22561740 Mobile: +91 9445035614	bobasmachennai@gmail.com ; bobasma@aai.aero ;
ARC	Mr. K. Vasudevan	General Manager (ATM-Air Space Management) Airports Authority of India Directorate of Airspace Management, CHQ, Airports Authority of India New Delhi 110003 India	Tel.: +91 11 24629012 Fax.: +91 11 2461 0528 Mobile: +91 99 2006 5132	gmasm@aai.aero ;
ADM	Mr. Arun Kumar	Director General of Civil Aviation Directorate of Civil Aviation Department Technical Centre, Opp. Safdarjung Airport New Delhi 110003	Tel: +91 11 24627830, 24620784, 24652491 Fax: +91 11 24652760	dgoffice.dgca@nic.in ;

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ADM	Mr. Kalyan Choudhury	Executive Director (ATM) Airports Authority of India, Rajiv Gandhi Bhawan, Safdarjung Airport, New Delhi -110003.	Tel: +91 11 2463 1684 Fax: +91 11 2461 1078 Mobile: +91 9161005544	edatm@aai.aero ;
ADM	Mr. A K Meena	Executive Director (ASM) Airports Authority of India, Rajiv Gandhi Bhawan, Safdarjung Airport, New Delhi -110003	Tel: +91 11 2463 2992 Fax: +91 11 2461 0528 Mobile: +91 9650108662	edasm@aai.aero ;
INDONESIA				
SAR	Mr. Otty Rusinarsetyo	Chief, International Organization Technical Cooperation, Planning and International Cooperation Division National Search and Rescue Agency of Republic of Indonesia (BASARNAS)	Tel: +62-21-6570 1116 ext. 1751 Fax: +62-21-654 0638	otty.rs@gmail.com ;
CCT	Mr Tian Kusdinar	Chief of ATM Section Directorate of Air Navigation DGCA Indonesia 23rd Floor Karya Building Medan Merdeka Barat No. 8 Jakarta 10110	Tel: +62 21 3506451, 3506617 Fax: +62 21 3507569 Mobile: +62 813 8449 7414	tian231182@gmail.com ;

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CCT	Mr. Hermawan Novitriyanto	Manager of Area Control Center and Terminal Control Area AirNav Indonesia Directorate of Operation 2nd floor Support Building of AirNav Indonesia Headquarters Ir. H. Juanda # 1, Tangerang 15121Banten	Tel: +62 21 55915000, Fax: +62 21 55915100 Mobile: +62 81284173391	hermawan.airnav@gmail.com ;
CCT	Mr. Indra Gunawan	Deputy Director of Air Navigation Operation, DGCA of Indonesia		indraatc31@gmail.com ;
CCT	Mrs. Nurdini Tambunan	Air Navigation Inspector DGCA of Indonesia		nurdini_tambunan@dephub.go.id ; truedien@gmail.com ;
CCT	Mr. Rahmat Widiyana	ATFM and CDM Planning Manager AirNav Indonesia		rachmat.widiyana@airnavindonesia.co.id ;
ATC	Mr. Raden Triaswanto	Junior Manager Planning and Evaluation of Jakarta ACC Upper Kalimantan Jakarta Air Traffic Services Centre (JATSC)	Tel: +62 819 5682 502	rtriaswanto@gmail.com ;
ATC	Mr. Ari Nugraha Harsawardhana	Manager of Planning and Evaluation of Ujung Pandang ACC Makassar Air Traffic Services Centre (MATSC)	Tel: +62 877 8008 1977	arieharsa@gmail.com ;
AIS	Mr. Ulul Azmi	General Manager AIS Center AirNav Indonesia	Tel: +62 21 5591 5000 Fax: +62 21 5591 5100	azmi@aviasi.org ;
AIS	Mr. R. Ahmad Hasyim	QMS Junior Manager AirNav Indonesia	Tel: +62 21 5591 5000 Fax: +62 21 5591 5100	r.ahmadhasyim@gmail.com ;

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ARC	Mr. Rahmat	Aeronautical Information Manager AirNav Indonesia	Tel: +62 21 5591 5000 Fax: +62 21 5591 5100	dms@airnavindonesia.co.id ;
ARC	Mr. Yayat Supriyatna	Aeronautical Information Evaluation Junior Manager AirNav Indonesia	Tel: +62 21 5591 5000 Fax: +62 21 5591 5100	yhatk3s@yahoo.com ;
ADM	Mr. Haris Achadi	Deputy Director for International Cooperation Planning and International Cooperation Division	Tel: +62 21 6570 1116 ext. 1751 Fax: +62 21 654 0638	habasarnas@gmail.com ;
ADM	Mr. Hedriansyah	Air Navigation Inspector Karya Building 23 rd Floor Ministry of Transportation, Medan Merdeka Barat st. No. 8 Jakarta	Tel: +62 878 2422 2263 Fax: +62 21 350 7569	hedriansyah@dephub.go.id ;
ADM	Mr Nur Sa'id Eko Nugroho	Air Navigation Inspector and ATM Officer Directorate of Air Navigation DGCA Indonesia 23rd Floor Karya Building Medan Merdeka Barat No. 8 Jakarta 10110	Tel: +62 21 3506451, 3506617 Mobile: +62 813 2546 9339 Fax : +62 21 3507569	ecko.atc@gmail.com ;
ADM	Mr. I Made Sutamayasa	Chief of Air Navigation & Airport Operation Airport Authority Region IV Bali Juanda St. No.1 Tuban Bali	Tel: +62 813 373 93413 Fax: +62 361 935 710	imade050278@gmail.com ;

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ADM	Mr. Muji Subagyo	Head of Service Development Division AirNav Indonesia Directorate of Operation 2nd floor Support Building of AirNav Indonesia Headquarters Ir. H. Juanda # 1, Tangerang 15121 Banten	Tel: +62 21 55915000 Fax : +62 21 55915100 Mobile: +62 81383034781	muji_subagyo@yahoo.com ;
ADM	Mrs. Dina Yunita	Chief of AIM, Aviation MET & Aeronautical SAR DGCA – Indonesia Karya Building 7th Floor Ministry of Transportation, Medan Merdeka Barat st. No. 8 Jakarta,	Tel: +62 812 96075249 Fax:	dina_yunita@dephub.go.id ; dn.yunita22@gmail.com ;
ADM	Mr. Angga Wiguna	Air Navigation Inspector DGCA – Indonesia Karya Building 23 rd Floor Ministry of Transportation, Medan Merdeka Barat St. No. 8 Jakarta	Tel: +62 813 16519005 Fax: +62 21 350 7569	angga_wiguna@dephub.go.id ;
	IRAN			
CCT	Mr. Ahmad Kaveh Firouz	Deputy of Tehran ACC	Tel: +982144544119 Tel: +982144544119 (H) Fax: 989123230447 Mobile: +982144433100	ahmadkavehfiroz@gmail.com ;
	JAPAN			

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SAR	Mr. OKAGAMI Takahiro	Special Assistant to the Director, Operations and Flight Inspection Division, Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8111 ext. 51332 Fax: +81 3 5253 1664	okagami-t2di@mlit.go.jp ;
SAR	Mr. NAKAMURA Satoshi	Air Traffic Services Flight Information Officer, Tokyo airport office, Japan Civil Bureau (JCAB), 3-3-1 Haneda-kuko Otaku, Tokyo 144-0041	Tel: +81 3 5757 3022 Fax: +81 3 5756 1512	nakamura-s11e6@mlit.go.jp ; eab-hnd-rc@mlit.go.jp ;
SAR	Mr. HAMADA Takahisa	Special Assistant to the Director, Operations and Flight Inspection Division, Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8111 ext. 51332 Fax: +81 3 5253 1664	hamada-t01na@mlit.go.jp ;
SAR	Mr. SUGIMOTO Hiromitsu	Air Traffic Services Flight Information Officer, Tokyo airport office, Japan Civil Bureau (JCAB), 3-3-1 Haneda-kuko Otaku, Tokyo 144-0041	Tel: +81 3 5757 3022 Fax: +81 3 5756 1512	sugimoto-h2vt@mlit.go.jp ; cab-hnd-rc@mlit.go.jp ;
CCT	Mr. NINOMIYA Osamu	Special Assistant to the Director, Flight Procedures and Airspace Program Office, Japan Civil Aviation Bureau, Japan Airspace Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8750 Fax: +81 3 5253 1664	ninomiya-o104h@mlit.go.jp ;

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ATC	Mr. SHIGENOBU Toshiya	Special Assistant to the Director, Air Traffic Control Division, Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8749 Fax: +81 3 5253 1664	shigenobu-t07sa@mlit.go.jp ;
AIS	Ms. SAKAMOTO Takako	Deputy Chief Aeronautical Information Service Officer Aeronautical Information Service Center 133 Kanemae Furugome, Narita-shi Chiba 282-0004	Tel: +81 476 33 5506 Fax: +81 476 33 5509	sakamoto-t41zd@mlit.go.jp ;
AIS	Ms. WAKAMATSU Ikuko	Special Assistant to the Director, Operations and Flight Inspection Division, Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8751 Fax: +81 3 5253 1664	wakamatsu-i2ed@mlit.go.jp ;
SAF	Mr. MARUTSUKA Yasuhiro	Special Assistant to the Director, Flight Procedures and Airspace Program Office, Japan Civil Aviation Bureau, Japan Airspace Safety Monitoring Agency (JASMA)	Tel: +81 3 5253 8750 Fax: +81 3 5253 1664	marutsuka-y0799@mlit.go.jp ; hqt-JASMA@ml.mlit.go.jp ;
SAF	Mr. WADA Hiroyuki	Special Assistant to the Director, Air Navigation Services Planning Division, Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918		wada-h22t5@mlit.go.jp ;

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ARC	Mr. SANO Atsushi	Special Assistant to the Director Air Traffic Control Division Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918		sano-a03ju@mlit.go.jp ;
ADM	Mr. YAMADA Shinichi	Deputy Director, Air Traffic International Affairs Office, Japan Civil Aviation Bureau (JCAB), Ministry of Land, Infrastructure, Transport and Tourism 2-1-3 Kasumigaseki, Chiyodaku, Tokyo 100-8918	Tel: +81 3 5253 8740 Fax: +81 3 5253 1663	yamada-s25n@mlit.go.jp ;
ADM	Mr. HARANO Kyotaro	Director, Air Traffic International Affairs Office Air Navigation Services Department Civil Aviation Bureau		harano-k2pc@mlit.go.jp ;
KIRIBATI				
ATC	Ms. Muraea Tiaoti	ATS Manager Airport Service Kiribati Bonriki International Airport	Tel: +686 752 28092 Fax: +686 28280	muraea.tiaoti@mcttd.gov.ki ;
ARC	Ms. Aako Teikake	Acting Director of Civil Aviation Directorate of Civil Aviation Ministry of Communications, Transport and Tourism Development		dca@mcttd.gov.ki ;

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ADM	Mr. Tiamwa Teaiwa	ICAO National Compliance Co-ordinator Civil Aviation Authority of Kiribati P.O. Box 487, Betio, Tarawa	Tel: +686 730 55574 +686 26003 ext 34 Fax: +686 26192 +686 26195	icao_ncc@mcttd.gov.ki ;
KUWAIT				
CCT	Shaine Al-Ghanim	Director Safety		sm.alghanim@dgca.gov.kw ;
CCT	Musatfa Al -ararh	Director ANS Safety		ma.altarrah@dgca.gov.kw ;
KYRGYZ REPUBLIC				
CCT	Mr. Dmitriy Chetvertak	Head of ATM Department SE Kyrgyzaeronavigatsia	Tel: +996-312393130 Fax: +996-312-393093	kan_atm@kan.kg ;
CCT	Mr.Ulukbek Rakhmanov	Director General	Tel: +996-312393559 Fax: +996-312-393 093	kan_atm@kan.kg ;
LAO PDR				
SAR	Mr. Vixay Vorlachit	Chief of SAR Section Air Navigation Standards Division Department of Civil Aviation of Lao PDR Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O Box: 119	Tel: +856 21 513 163 Fax: +856 21 520 237 Mobile: +856 20 28008833	november.victor1991@gmail.com ;
SAR	Mr. Amphone Thanasine	Chief of RCC Air Traffic Services Division (ATSD) Lao Air Navigation Services (LANS) Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box 2985.	Tel.: +856 21 512237 Fax: +856 21 513041 Mobile: +856 20 54111219	amthanasine@gmail.com ;

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CCT	Mr. Amdounla Salinthonne (Primary)	Director of ATS Division Lao Air Navigation Services	Tel: +856 21 512006 Fax: +856 21 512216 Mobile: +856 20 55668240	asalinthonne@gmail.com ;
CCT	Mr. Thanongdeth Nalisak (Secondary)	Deputy Director of Air Navigation Standards Division Department of Civil Aviation of Lao PDR	Tel: +856 21 513 163 Fax: +856 21 520 237 Mobile: +856 20 54212446	thanongdeth@dcal.gov.la ; thanongdeth.nalisak@gmail.com ;
ATC	Mr. Amdounla Salinthonne	Director of ATSD Air Traffic Services Division Lao Air Navigation Services Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box 2985	Tel: +856 21 512006 Fax: +856 21 512216 Mobile: +856 20 55668240	asalinthonne@gmail.com ;
ATC	Mr. Thanongdeth Nalisak	Deputy Director of ANSD Air Navigation Standards Division Department of Civil Aviation of Lao PDR Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box: 119.	Tel: +856 21 513 163 Fax: +856 21 520 237 Mobile: +856 20 54212446	thanongdeth@dcal.gov.la ; thanongdeth.nalisak@gmail.com ;
AIS	Mr. Manasavanh Kounlath	Director of AISD Aeronautical Information Service Division Lao Air Navigation Services Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box 2985	Tel: +856 21 512006 Fax: +856 21 512 216 Mobile: +856 20 22202598	manasavanh@gmail.com ;
AIS	Ms. Davone Vilayseng	Deputy Director of ANSD Air Navigation Standards Division Department of Civil Aviation of Lao PDR Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box: 119.	Tel: +856 21 512163 Fax: +856 21 520237 Mobile: +856 20 22223498	davone.vs@gmail.com ;

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ARC	Mr. Sohnsacksit Khamkeo	Director of ANSD Air Navigation Standards Division Department of Civil Aviation of Lao PDR Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O Box: 119.	Tel: +856 21 512163 Fax: +856 21 520237 Mobile: +856 20 22499936	sohnsacksit@dcal.gov.la ; saykhamkeo@gmail.com ;
ARC	Ms. Inseelee Bouapao	Flight Procedure Designer Aeronautical Information Service Division Lao Air Navigation Services Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box 2985.	Tel: +856 21 512006 Fax: +856 21 512 216 Mobile: +856 20 77893977	insee_lee@yahoo.com ;
ADM	Mr. Vanpheng Chanthaphone	Director General Department of Civil Aviation of Lao PDR Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O Box: 119	Tel: +856 21 512163 Fax: +856 21 520237 Mobile: +856 20 55888875	laodca@laotel.com ;
ADM	Mr. Bountaeng Symoon	Deputy Director General Department of Civil Aviation of Lao PDR Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O Box: 119.	Tel: +856 21 512163 Fax: +856 21 520237 Mobile: +856 20 22206472	bountaeng@dcal.gov.la ; bountaeng@gmail.com ;
ADM	Mr. Bounthueng Soumontha	General Director of LANS Lao Air Navigation Services Souphanouvong RD, Wattay International Airport Vientiane capital, Lao PDR, P.O. Box 2985.	Tel: +856 21 512006 Fax: +856 21 512 216 Mobile: +856 20 55121314	gd.bountheung@lans.gov.la ;
	MALAYSIA			

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SAR	Mr. Mani Vannan a/l Ketena Samy Mr. Mani Vannan s/o Ketena Samy	Principal Assistant Director SAR Unit, Air Traffic Management Division Civil Aviation Authority of Malaysia 4th Floor, Blok Podium B, Precint 4, No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4285 Fax: +60 3 8881 0530	mani@caam.gov.my ;
SAR	Mr. Megat Ahmad Zuhri Bin Megat Ahmad Zubir	Senior Assistant Director SAR Unit, Air Traffic Management Division Civil Aviation Authority of Malaysia 4th Floor, Blok Podium B, Precint 4, No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4287 Fax: +60 3 8881 0530	megat@caam.gov.my ;
CCT	Mrs. Dayang Zarina Binti Abang Alli	Deputy Director (Operations) Kuala Lumpur Air Traffic Control Centre Block A, Air Traffic Control Complex, Sultan Abdul Aziz Shah Airport 47200 Subang, Selangor, Malaysia	Tel: +60 3 7840 0060 Fax: +60 3 7845 6590	dygzarina@caam.gov.my ;
CCT	Mr. Chars Wong	Deputy Director Kota Kinabalu Area Control Centre Jalan Kepayan 88618 Kota Kinabalu, Sabah, Malaysia	Tel: +60 16 817 6983 Fax: +60 88 219 198	chars@caam.gov.my ;

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CCT	Mr. Wong Ding Hook	Deputy Director Kuching Area Control Centre P.O. Box 1359 93728 Kuching, Sarawak, Malaysia	Tel: +6019 818 5932 Fax: +60 82 454 523	dhwong@caam.gov.my ;
CCT	Mr. Abdul Rali Bin Kassim	Principal Assistant Director Air Traffic Management Division Civil Aviation Authority of Malaysia 4 th Floor, Blok Podium, No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4273 Fax: +60 3 8881 0530	abdulrali@caam.gov.my ;
CCT	Mr. Muhammad Hafidz Bin Ibrahim	Senior Assistant Director Air Traffic Management Division Civil Aviation Authority of Malaysia 4 th Floor, Blok Podium, Precint 4, No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4269 Fax: +60 3 8881 0530	mhafidz_ibrahim@caam.gov.my ;
ATC	Mrs. Dayang Zarina Binti Abang Alli	Deputy Director (Operations) Kuala Lumpur Air Traffic Control Centre Block A, Air Traffic Control Complex, Sultan Abdul Aziz Shah Airport 47200 Subang, Selangor, Malaysia	Tel: +60 3 7840 0060 Fax: +60 3 7845 6590	dvgzarina@caam.gov.my ;
ATC	Mr. Chars Wong	Deputy Director Kota Kinabalu Area Control Centre Jalan Kepadayan 88618 Kota Kinabalu, Sabah, Malaysia	Tel: +60 16 817 6983 Fax: +60 88 219 198	chars@caam.gov.my ;

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ATC	Mr. Wong Ding Hook	Deputy Director Kuching Area Control Centre P.O. Box 1359 93728 Kuching, Sarawak, Malaysia	Tel: +6019 818 5932 Fax: +60 82 454 523	dhwong@caam.gov.my ;
AIS	Mr. Mohd Fitri Bin Ishak	Principal Assistant Director Air Traffic Management Division Civil Aviation Authority of Malaysia 4 th Floor, Blok Podium, Precint 4, No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4260 Fax: +60 3 8881 0530	fitri@caam.gov.my ;
AIS	Mr. Tan Kim Sin	Senior Assistant Director Air Traffic Management Division Civil Aviation Authority of Malaysia 4th Floor, Blok Podium, Precint 4, No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +603 8871 4284 Fax: +603 8881 0530	tanks@caam.gov.my ;
SAF	Mr. Mohd Rashidi Bin Abd Rahim	Principal Assistant Director SMS Unit Air Traffic Management Division Civil Aviation Authority of Malaysia 4th Floor, Blok Podium B, Precint 4, No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4239	rashidi@caam.gov.my ;

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ARC	Mr. Bahrin Bin Tahir	Principal Assistant Director Air Navigation Services Standards Division Civil Aviation Authority of Malaysia 3rd Floor, Blok Podium No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4189 Fax: +60 3 8881 4333	bahrin.tahir@caam.gov.my ;
ARC	Mr. Abdul Rali Bin Kassim	Principal Assistant Director Air Traffic Management Division Civil Aviation Authority of Malaysia 4 th Floor, Blok Podium No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4273 Fax: +60 3 8881 0530	abdulrali@caam.gov.my ;
ADM	Captain Chester Voo Chee Soon	Chief Executive Officer Civil Aviation Authority of Malaysia 8 th Floor, Galeria PJH, Persiaran Perdana, Precint 4, 62100 Putrajaya, Malaysia	Tel: +60 3 8893 4188 Fax: +60 3 8893 4163	cvoos@caam.gov.my ;
ADM	Mr. Noor Izhar Bin Bahrin	Deputy CEO (Operations) Civil Aviation Authority of Malaysia 8th Floor, Galeria PJH, Persiaran Perdana, Precint 4, 62100 Putrajaya, Malaysia	Tel: +60 3 8893 4188 Fax: +60 3 8893 4163	izhar@caam.gov.my ;

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ADM	Captain Md Jani Bin Md Dom	Director Quality and Standards Division Civil Aviation Authority of Malaysia 8 th Floor, Galeria PJH, Persiaran Perdana, Precint 4, 62100 Putrajaya, Malaysia	Tel: +60 3 8893 4188 Fax: +60 3 8893 4163	janimd@caam.gov.my ;
ADM	Mr. Nasuruddin Bin Zainol Abidin	Director Air Traffic Management Division Civil Aviation Authority of Malaysia 4 th Floor, Blok Podium No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4227 Fax: +60 3 8871 0530	nasuruddin@caam.gov.my ;
ADM	Mr. Joseph D'Cruz	Deputy Director (Operations) Air Traffic Management Division Civil Aviation Authority of Malaysia 4 th Floor, Blok Podium No. 27, Persiaran Perdana 62618 Putrajaya, Malaysia	Tel: +60 3 8871 4225 Fax: +60 3 8881 0530	joedcruz@caam.gov.my ;
	MALDIVES			
ATC		Watch Manager Male Area Control Centre, Velana International Airport	Tel: +960 332 2071 Mobile: +960 7977802 (24 hrs)	sup_matcc@macl.aero ;

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AIS	Mrs. Haseena Hadee	Assistant Manager, AIS Maldives Airports Company Limited Aeronautical Information Services, Air Traffic Management Section, Ibrahim Nasir International Airport, Hulhule'22000	Tel: +960 919 1266 Fax: +960 331 3258	hasyna@macl.aero ;
AIS	Ms. Fathimath Samiya	Associate General Manager, AIS Maldives Airports Company Limited Aeronautical Information Services, Air Traffic Management Section, Ibrahim Nasir International Airport, Hulhule'22000	Tel: +960 777 9586 Fax: +960 331 3258	samiya@macl.aero ;
ARC	Ms. Fathimath Samiya	Associate General Manager, AIS Maldives Airports Company Limited		samiya@macl.aero ;
ARC	Mrs. Haseena Hadi	Assistant Manager, AIS Maldives Airports Company Limited		hasyna@macl.aero ;
ADM	Mr. Ibrahim Thoha	General Manager, Air Traffic Management Maldives Airports Company Limited	Tel: +960 333 1711 Mobile: +960 777 1963	thoha@macl.aero ;
ADM	Mr. Ibrahim Hameed	Associate General Manager, Air Traffic Services, Air Traffic Management, Maldives Airports Company Limited, Velana International Airport	Tel: +960 333 7114 Mobile: +960 7739100	i.hameed@macl.aero ;

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ADM	Mr. Hussein Jaleel	Chief Executive Civil Aviation Authority Ministry of Transport and Communication 11 th Floor, Velaanaage Ameeru Ahmed Magu Malé 20096	Tel: +960 (3) 324992 Fax: +960 (3) 323039	dgca@aviainfo.gov.mv ; jaleel@aviainfo.gov.mv ;
ADM	Ms. Fathimath Ramiza	Director Air Navigation & Aerodromes Maldives Civil Aviation Authority	Tel: +960 3342984 Mobile: +960 7774838	ramiza@caa.gov.mv ;
MARSHALL ISLANDS				
ARC	Mr. Stanley Myazoe	Director Directorate of Civil Aviation Ministry of Transport and Communications		rmidca@yahoo.com ;
MICRONESIA				
ARC	Mr. Massy Halbert	Assistant Secretary (Minister) Division of Civil Aviation Department of Transportation, Communications and Infrastructure		mas.halbert@gmail.com ;
MONGOLIA				
SAR	Mr. Mungunkhuyag Gankhuu	Deputy Head of Air Navigation Service Department, National Civil Aviation Services Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285022 Fax: +976 70 049640	mungunkhuyag.g@mcaa.gov.mn ;

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SAR	Mr. Batkhaan Dorjnyam	Officer Search and rescue coordination unit, ATS Division, Civil Aviation Authority of Mongolia, Buyant- Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 281154 Fax: +976 70 049640	ub_rcc@mcaa.gov.mn ; batkhaan@mcaa.gov.mn ;
CCT	Mr. Erdenebat Yondon	Deputy Director National Civil Aviation Services Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285100 Fax: +976 70 049640	yo_erdenebat@mcaa.gov.mn ;
CCT	Mr. Urtnasan Doljin	Officer National Civil Aviation Service Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285014 Fax: +976 70 049640	d_urtnasan@mcaa.gov.mn ;
ATC	Mrs. Mandkhai Batjil	ATM officer Air Navigation and Airports Policy Regulation Department, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 282060 Fax: +976 70 049640	mandkhai.b@mcaa.gov.mn ;

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ATC	Mr. Purevsukh Purev	Director ATS Division, National Civil Aviation Service Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 281700 Fax: +976 70 049640	purevsukh@mcaa.gov.mn ;
AIS	Mr. Odkhuu Khalzan	Officer Air Navigation and Airports Policy Regulation Department, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 282060 Fax: +976 70 049640	odkhuu.kh@mcaa.gov.mn ;
AIS	Mrs. Ariungerel Purev	Director AIS Division, National Civil Aviation Service Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 11 283131 Fax: +976 70049838	ariungerel@mcaa.gov.mn ;
SAF	Mr. Urantugs Badambazar	General Manager Aviation Safety Oversight and Regulation Department, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285002 Fax: +976 70 049640	b.urantugs@mcaa.gov.mn ;

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SAF	Mr. Odgerel Davaadorj	Safety Manager National Civil Aviation Services Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285559 Fax: +976 70 049640	odgerel@mcaa.gov.mn ;
ARC	Mr. Lkhagvajav Dashdorj	Senior Officer Air Navigation Service Department, National Civil Aviation Services Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285012 Fax: +976 70 049640	Lkhagvajav.d@mcaa.gov.mn ;
ARC	Mr. Khadbayar Tumurbaatar	Officer Air Navigation Service Department, National Civil Aviation Services Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 71 285012 Fax: +976 70 049640	khadbayar.tu@mcaa.gov.mn ;
ARC	Mr. Batsaikhan Tserenjav	Head of ACC unit ATS division, National Civil Aviation Service Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar 17120	Tel: +976 11 281614 Fax: +976 70 049640	batsaikhan.ts@mcaa.gov.mn ;

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ADM	Mr. Munkhjargal Purevjav	Director National Civil Aviation Services Center, Civil Aviation Authority of Mongolia, Buyant-Ukhaa, Khan-Uul district, Ulaanbaatar- 17120	Tel: +976 71 285000 Fax: +976 70 049640	munkhjargal.p@mcaa.gov.mn ;
	MYANMAR			
SAR	Mr. Aung Zaw Thein	Assistant General Manager (ATM) Air Traffic Management Division Department of Civil Aviation Yangon International Airport Mingaladon 11021, Yangon	Tel: +959 533041 Fax: +951 533000	azawthein@gmail.com ;
CCT	Mr. Aung Kyaw Tun	Director General Department of Civil Aviation DCA Headquarters Building Yangon International Airport P.O.Box 11021, Mingaladon Yangon	Tel: +95 (1) 533015 Fax: +95 (1) 533016	dgdca@dca.gov.mm ;
ATC	Mr Aung Zaw Thein	Assistant General Manager(En route ATM)	Tel: +959 533041 Fax: +951 533000	azawthein@gmail.com ;
ATC	Mr Tint Wai	Assistant General Manager(ASM)	Tel: +951 533 043 Fax: +951 533 000	dcatint@gmail.com ;
AIS	Mr. Than Lwin	Deputy General Manager (AIS) Department of Civil Aviation, Myanmar ATC Building, Yangon International Airport, Yangon 11021	Tel: +959 533085 Fax: +951 533016	aiso@ais.gov.mm ; thanlwin.ais@gmail.com ;

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ARC	Mr. Than Lwin	Deputy General Manager (AIS) Department of Civil Aviation, Myanmar ATC Building, Yangon International Airport, Yangon 11021	Tel: +959 533085 Fax: +951 533016	aiso@ais.gov.mm ; thanlwin.ais@gmail.com ;
ARC	Mr. Tint Wai	Assistant General Manager (ATM) Air Traffic Management Division Department of Civil Aviation Yangon International Airport Mingaladon 11021, Yangon	Tel: +951 533 043 Fax: +951 533 000	dcatint@gmail.com ;
ADM	Mr. Soe Paing	General Manager (ANSP) Air Navigation Service Provider Department of Civil Aviation Yangon International Airport Mingaladon 11021, Yangon	Tel: +951 533 008 Fax: +951 533 000	soepng1@gmail.com ;
ADM	Mr. Aung Myint Thein	Deputy General Manager (ATMD) Air Traffic Management Division Department of Civil Aviation Yangon International Airport Mingaladon 11021, Yangon	Tel: +951 533 043 Fax: +951 533 000	aungmyintthein.dca@gmail.com ;
ADM	Mr. Aung Zaw Thein	Assistant Director (ATM) Air Traffic Management Division Department of Civil Aviation Yangon International Airport Mingaladon 11021, Yangon	Tel: +959 533041 Fax: +951 533000	azawthein@gmail.com ;

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ADM	Mr. Tint Wai	Assistant General Manager (ATM) Air Traffic Management Division Department of Civil Aviation Yangon International Airport Mingaladon 11021, Yangon	Tel: +951 533 043 Fax: +951 533 000	dcatint@gmail.com ;
	NAURU			
ARC	Ms. Li-May Uera	Secretary for Transport & Telecommunications		secretary.transport@naurugov.nr ;
ADM	Mr. Dominic Tabuna	Director of Civil Aviation Civil Aviation Authority Department of Transport Directorate of Civil Aviation Civil Aviation Head Office, Nauru International Airport Yaren District		djtabuna@gmail.com ;
ADM	Mr. Nodel Neneiya	Secretary for Transport Department of Transport Transport Secretariat Nauru International Airport Yaren Department		neneiya@gmail.com ;
	NEPAL			
SAR	Mr. Sanjay Kumar	Dy. Director, Rescue Coordination Centre (RCC) Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4113000 Fax: +977 1 4113222 Mobile: +977 9851223000	rcc@caanepal.gov.np ;

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CCT	Mr. Mukul Mishra	Chief, CNS P & D Department Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4249379 Fax: +977 1 4262516 Mobile: +977 9849496700	mishramukul@hotmail.com ;
ATC	Mr. Deepak Baral	Director, ATM Department, Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4266139 Fax: +977 1 4262516 Mobile: +977 9851071819	Deepak.baral@caanepal.gov.np ;
AIS	Mr. Sudhir Kumar Chaudhary	Director, AIM Department, Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4257667 Fax: +977 1 4262516 Mobile: +977 9841320087	Chaudhary.sudhir754@gmail.com ;
SAF	Mrs. Nabina Karmacharya	Director, ANS Safety & Standard Department, Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4267784 Fax: +977 1 4262516 Mobile: +977 9841485092	Nabina2008@live.com ;
ARC	Mr. Devendra Prasad Shrestha	Manager ATM Department CAAN	Tel: +977 01 4252206 Fax: +977 1 4262324 Mobile: +977 9841237079	airspace@caanepal.gov.np ; atcdeven@gmail.com ;
ARC	Mr. Rajendra Singh Nayak	Manager ATM Department CAAN		Nayakrajendra123@gmail.com ;
ADM	Mr. Rajan Pokherel	Director General, Civil Aviation Authority of Nepal, Head Office, Babarmahal, Kathmandu	Tel: +977 1 4262387, 4262518 Fax: +977 1 4262516 Mobile: +977 9851071814	dgca@caanepal.gov.np ; cnsatm@mos.com.np ;
ADM	Mr. Sanjay Kumar	Deputy Director, ATM Department Civil Aviation Authority of Nepal Head Office, Babar Mahal, Kathmandu	Tel: +977 1 426 6139 Fax: Mobile: +977 984 1343995	Sanjay.kumar@caanepal.gov.np ; Nanpig@caanepal.gov.np ; Sk.tiao@gmail.com ;

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	NEW ZEALAND			
SAR	Mr. Paul Craven	Operations Officer Rescue Coordination Centre New Zealand (RCCNZ) Maritime New Zealand	Tel: +64 4 577 8032 Fax: Mobile: +64 27 491 8013	Paul.craven@maritimenz.govt.nz ;
CCT	Mr. Mark Blanchard	Head of Policy and Standards Airways New Zealand 26 Sir William Pickering Drive, Russley, Christchurch 8053 PO Box 14131, Christchurch, 8544	Tel: +64 3 3575430 ext. 3430 Fax: Mobile: +64 27 5975604	Mark.Blanchard@airways.co.nz ;
ATC	Mr. Mark Blanchard	Head of Policy and Standards Airways New Zealand 26 Sir William Pickering Drive, Russley, Christchurch 8053 PO Box 14131, Christchurch, 8544	Tel: +64 3 3575430 ext. 3430 Fax: Mobile: +64 27 5975604	Mark.Blanchard@airways.co.nz ;
AIS	Mr. Matt Day	Manager - Aeronautical Information Management Aeropath Level 7, 100 Willis Street Wellington 6011 Manager AIM Group EAD Asia/Pacific	Tel: +64 4 471 4795 Mobile: +64 27 437 0107	matt.day@aeropath.aero ; matt.day@groupead.co.nz ;
ARC	Mr. Matt Day	Manager - Aeronautical Information Management Aeropath Level 7, 100 Willis Street Wellington 6011 Manager AIM Group EAD Asia/Pacific	Tel: +64 4 471 4795 Mobile: +64 27 437 0107	matt.day@aeropath.aero ; matt.day@groupead.co.nz ;

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ADM	Mr. Paul Craven	Operations Officer Rescue Coordination Centre New Zealand (RCCNZ) Maritime New Zealand	Tel: +64 4 577 8032 Fax: Mobile: +64 27 491 8013	Paul.craven@maritimenz.govt.nz ;
ADM	Ms. Kate Madden	Aeronautical Services Officer Air Traffic Services Civil Aviation Authority of New Zealand P.O. Box 3555 Wellington 6140	Tel: +64 4 560 9645 Fax: +64 4 560 2024 Mobile: + 64 27 556 1512	Kate.Madden@caa.govt.nz ;
ADM	Mark Blanchard (ANSP)	Manager ATS P&S		mark.blanchard@airways.co.nz ;
ADM	Mr. David Wills	Aeronautical Services Officer Telecommunications Civil Aviation Authority of New Zealand P.O. Box 3555 Wellington 6140	Tel: +64 4 560 9583 Fax: +64 4 560 2024	david.wills@caa.govt.nz ;
	OMAN			
CCT	Mr. Saleh Al Harthy	Director of CNS	Tel: +968-24519789	saleh@paca.gov.om ;
CCT	Mr. Mubarak Al Ghelani	Director of ATC	Tel: +968-24518646	m.alghelani@paca.gov.om ;
CCT	Mr. Nasser Al Mazroui	Chief of ACC	Tel: +968-24518646	n.almazroui@paca.gov.om ;
	PAKISTAN			

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SAR	Mr. Syed Munawar Ali	Additional Director SAR, HQCAA, Terminal 1, Jinnah Intl Airport, Karachi	Tel: +92 21 99249153, +92 21 99072069 +92 322 2287585 Fax: +92 21 99249154	Adld.sar@caapakistan.com.pk ;
SAR	Mr Taqi Nasir	Officer-in Charge, Lahore RCC, Area Control Centre Radar Building Allama Iqbal Intl Airport Lahore	Tel:: +92 42 36611618, +92 42 99240624, +92 42 312922-25 Fax: +92 42 99240580 Mobile: +92 333 4277023	taqinasir64@gmail.com ;
SAR	Mr. Ali Hasan	Officer-in Charge, Karachi RCC, Area Control Centre Radar Building Jinnah Intl Airport Karachi	Tel: +92 21 99242401 +92 21 99071977 Fax: +92 21 99242404 Mobile: +92 310 7771211	RCCKARFIR@caapakistan.com.pk ;
SAR	Mr. Akhtar Niqab	SAR Mission Coordinator, RSC Islamabad New Islamabad International Airport Islamabad	Tel: +92 51 9282009 +92 51 9252007-8 Fax: +92 51 9282006 Mobile: +92 334 8402650	
SAR	Mr. Iftikhar Ahmed	Director Operations Headquarters, Pakistan Civil Aviation Authority Terminal No.1, Jinnah International Airport Karachi 75200	Tel: +92-2199242742 Fax: +92-2134604323 Mobile: +92 301 8267926	Director.ops@caapakistan.com.pk ;

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CCT	Mr. Iftikhar Ahmed	Additional Director ATS Headquarters, Pakistan Civil Aviation Authority Terminal No.1, Jinnah International Airport Karachi 75200	Tel: +92 21 99242044 Fax: +92 21 99242045 Mobile: +92 301 8267926	Adldops.atm@caapakistan.com.pk ;
AIS	Mr. Muhammad Azam Ghouri	Additional Director Aeronautical Information Management Headquarters, Pakistan Civil Aviation Authority, Terminal-1 Jinnah International Airport, Karachi	Tel: +92 21 99242155, +92 21 99072288 Fax: +92 21 99242089 Mobile: +92 301 2627768	AdID.AIM@caapakistan.com.pk ; AIMHQCAA@caapakista.com.pk ;
ARC	Minister in-charge on Aviation	Minister in-charge on Aviation		secyavn@gmail.com ;
ARC	Mr. Iftikhar Ahmed	Director Operations Headquarter Pakistan Civil Aviation Authority Terminal No.1, Jinnah International Airport Karachi 75200	Tel: +92 21 99242742 Fax: +92 21 34604323 Mobile: +92 301 8267926	dops@caapakistan.com.pk ;
ADM	Mr. Iftikhar Ahmed	Additional Director ATS Headquarters, Pakistan Civil Aviation Authority, Terminal-1 Jinnah International Airport, Karachi 75200	Tel: +92 21 99242044, +92 21 99072281 Fax: +92 21 99242045 Mobile: +92 301 8267926	AdIDOPS.ATM@caapakistan.com.pk ;
ADM	Mr. Shabbir Ahmed	Additional Director Airspace and Air Navigation Standards Headquarters, Pakistan Civil Aviation Authority Inspectorate Building, Jinnah International Airport Karachi 75200	Tel: +92 21 99242748, +92 21 99072665, Fax: +92 21 99242757 Mobile: +92 332 8262870	AdIDAAR.AANS@caapakistan.com.pk ;
	PALAU			

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ARC	Mr. Peter N. Polloi	Administrator Director General of Civil Aviation Palau National Aviation Administration		pnaa@palaunet.com ;
ADM	Mr. Peter N. Polloi	Administrator (DGCA) Palau National Aviation Administration P.O. Box 6051 Koror, Palau 96940	Tel: +680 587 2944, +680 587 4363 Mobile: +680 775 1828 Fax: +680 587 2945	pnaa@palaunet.com ;
PAPUA NEW GUINEA				
CCT	Mr. Gabriel Salayau	Executive Manager Aviation Facilities Civil Aviation Safety Authority	Tel: +675 3027551	gsalayau@casapng.gov.pg ;
CCT	Mr. Phil Irvine	Executive Manager Air Traffic Service PNG Airservices Limited	Tel: +675 3131521	pirvine@pngairservices.com.pg ;
ATC	Mr. Gabriel Salayau	Executive Manager Aviation Facilities Civil Aviation Safety Authority	Tel: +675 3027551	gsalayau@casapng.gov.pg ;
ATC	Mr. Phil Irvine	Executive Manager Air Traffic Service PNG Airservices Limited	Tel: +675 3131521	pirvine@pngairservices.com.pg ;
AIM	Mr. Robin Damo	Chief Cartographer of AIS PNG Air Services Ltd. P.O. Box 273 Boroko NCA, Port Moresby	Tel: +675 3121582 Fax: +675 3250749	rdamo@pngairservices.com.pg ;
AIS	Ms. Collette B Karang	Manager AIS PNG Air Services Ltd. P.O. Box 273 Boroko NCA, Port Moresby	Tel: +675 7615 5319 Fax: +675 325 0749	ckarang@pngairservices.com.pg ;

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ARC	Mr. Roy Mumu	Secretary Department of Transport		rmumu@transport.gov.pg;
ARC	Mr. Wilson Sagati	Chief Executive Officer and Director Civil Aviation Safety Authority of Papua New Guinea		wsagati@casapng.gov.pg;
ADM	Mr. Roy Mumu	Secretary Department of Transport P.O.Box 1489 Port Moresby National Capital District	Tel: + (675) 325 7500/3236186 Fax: + (675) 323 3339	rmumu@transport.gov.pg
PHILIPPINES				
SAR	Mr. Braulio I. Meneses	Facility-In-Charge, Philippine Aeronautical RCC (PARCC) Civil Aviation Authority of the Philippines	Tel: +632 86727705 Tel: +632 86727706 Fax: +632 86727704 Mobile: +63917 6502302 AMHS: RPLLYCYX	caaphil.rcc@gmail.com;
SAR	Ms. Joyce B. Santos	Asst. FIC for Operations, PARCC Civil Aviation Authority of the Philippines	Tel: +632 86727705 Tel: +632 86727706 Fax: +632 86727704 Mobile: +63917 6502302 AMHS: RPLLYCYX	caaphil.rcc@gmail.com;
ATC	Mr. Amada de Guzman, Jr.	Head, Operation Center Civil Aviation Authority of the Philippines MIA Road, Pasay City 1300 Metro Manila, Philippines	Tel: +632 7944 2030 +632 7944 2031	opcen@gnail.com;

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ATC	Ms. Ma. Theresa L.Olpindo	Department Manager, III Air Traffic Control and Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2221	Limavic2000@yahoo.com ;
ATC	Mr. Ferdinand A. Tienzo	Chief, Enroute Division Air Traffic Control and Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 8672 7784	tienzoda@yahoo.com ;
ATC	Mr. Romel Y. Matnog	Chief, Approach Division Air Traffic Control and Airspace Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2215	mdapproach@yahoo.com ;
ATC	Ms. Marlene I. Singson	Chief, Aerodrome Division Air Traffic Control and Airspace Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2222	phlaerodrometowers2017@gmail.com ;
ATC	Mr. Ariel J. Carabeo	Facility Chief Manila Area Control Center Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 8672 7784	arielcarabeo@yahoo.com ;
ATC	Mr. Joselito D. Mamuad	Facility Chief Manilla-Clark Approach Cluster Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 8672 7711	ym_atcradar@yahoo.com ;

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ATC	Ms. Helen Grace J. Cabuyadao	Facility Chief Manila Control Tower Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2169	juliet_golf@yahoo.com ;
AIS	Ms. Remedios M. Gomez	Acting Division Chief, AIS/MAPS Air Traffic Services Civil Aviation Authority of the Philippines	Tel: +632 7944 2269	Rem_gomez@yahoo.com ;
AIS	Ms. Alicia C. Bagot	Facility-In-Charge, AIS OPS Air Traffic Service Civil Aviation Authority of the Philippines	Tel: +632 8672 7730, +632 8672 7732	alicebagot@yahoo.com ;
AIS	Mr. George Don M. Narvaez	Assistant Facility-In-Charge, AIS OPS Air Traffic Service Civil Aviation Authority of the Philippines Aeronautical Information Service Ops, Gnd Floor Air Traffic Management Center Civil Aviation Authority of the Philippines CAAP Compound, Mia Road Pasay City, 1300	Tel: +632 8672 7785	phil.aisops@gmail.com ; gdnarvaez@yahoo.com ;
SAF	Ms. Arlene B. Gentica	Safety Manager Air Traffic Service Civil Aviation Authority of the Philippines	Tel: +632 7944 2217	
ARC	Ms. Jessica Adeline D. Jamero	Chief, Airspace and Flight Procedure Design Division Air Traffic Control and Airspace Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 7944 2213 +632 7944 2214	jamerojessica@gmail.com ;

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ARC	Ms. Maria Rumela G. Cortes	Civil Aviation Authority of the Philippines		phil.aisops@gmail.com ;
ARC	Mr. Charlemagne P. Gilo	Chief, Aeronautical Communication Division Aeronautical Information and Communications Department Air Traffic Service Civil Aviation Authority of the Philippines		Charlemagne.gilo@gmail.com ;
ADM	Engr. Arnold R. Balucating (PIRG Deficiencies)	Assistant Director General I, Air Navigation Service Civil Aviation Authority of the Philippines MIA Road, Pasay City 1300 Metro Manila, Philippines	Tel: +63 2 79442194	arnoldrbalucating@yahoo.com ;
ADM	Atty. Antonio G. Gonzales (PIRG Deficiencies ALT)	Acting Chief, Air Traffic Service Air Traffic Service Civil Aviation Authority of the Philippines	Tel: +63 2 7944 2218	antoniogonzales2003@yahoo.com ;
ADM	Ms. Ma. Antonia V. Bornas (Volcanic Activity)	Chief, Science Research Specialist, Volcanic Monitoring & Eruption Prediction Division Philippine Institute of Volcanology and Seismology (PHIVOLCS) PHIVOLCS Building, C.P. Garcia Avenue UP Campus, Diliman, Quezon City 1100	Tel: +63 (2) 426 1468	mariton.bornas@phivolcs.dost.gov.ph ; vmedp@phivolcs.dost.gov.ph ;
ADM	Vicente B. Malano, Ph.D. (Volcanic Activity)	Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) PAGASA Science Garden Complex, BIR Road, Brgy. Central, Quezon City 1100 Metro Manila, Philippines	Tel: +63 2 8929 4865 +63 2 84349040	rzmalano@paqasa.dost.gov.ph ; vmalanoSS@yahoo.com ;

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ADM	Ms. Amneris G. Gabriel	Department Manager, III Aeronautical Information and Communications Department Air Traffic Service Civil Aviation Authority of the Philippines	Tel: +632 7944 2221	vannieggabriel@gmail.com ;
ADM	Ms. Melba S. Acurantes	Division Chief, Progression Division Air Traffic Service Civil Aviation Authority of the Philippines	Tel: +632 7944 2245	Ms_acurantes@yahoo.com ;
ADM	Mr. Michael E. Mapanao	Assistant Director General 1 Air Traffic Service Civil Aviation Authority of the Philippines	Tel: +63 2 7944 2218	mikeecho905@yahoo.com ;
ADM	Ms. Anna Joy C. Papag	Division Chief Air Traffic Service Planning Division Civil Aviation Authority of the Philippines	Tel: +632 7944 2209	ae_jae0627@yahoo.com ;
ADM	Captain Jim C. Sydiongco	Director General Civil Aviation Authority of the Philippines Old MIA Rd., Pasay City Metro Manila	Tel: +632 7944-2000 Fax: +632 944-2168 +632 7944 2168	iirnsvd@gmail.com ; de@caap.sov.ph ;
	REPUBLIC OF KOREA			

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SAR	Mr. Sang-cheol Kim	Fire Fighting Equipment & Aviation Division Assistant Director Ministry of Public Safety and Security National Fire Service HQ SM Tower, #503, 10 Jeongbu 2 Cheongsa-ro, Sejong Special Self Governing City	Tel: +82 44 205 7388 Fax: +82 44 205 7326	godwater@korea.kr ;
SAR	Ms. Eun-ah SONG	Assistant Inspector, Search and Rescue Division, Korea Coast Guard, 130, Haedoji-ro, Yeonsu-gu, Incheon, 21995, Republic of Korea	Tel: +82 32 835 2347 Fax: +82 32 835 2846	raonseal@korea.kr ;
SAR	Mr. Min-hyeon KIM	Assistant Inspector, Search and Rescue Division, Korea Coast Guard, 130, Haedoji-ro, Yeonsu-gu, Incheon, 21995, Republic of Korea	Tel: +82 32 835 2547 Fax: +82 32 835 2846	clearhate@korea.kr ;
SAR	Mr. Dong-sun Yoo	Assistant Director Air Traffic Management Office 50-12, Maeyeou-ro 1 gil, Dong-gu, Daegu City, 41059	Tel.: +82 53 668 0256 Fax: +82 53 668 0277	yds1992@korea.kr ;
CCT	Ms. Hye-in Jung	Deputy Director Air Traffic Command Center Air Traffic Management Office 50-12, Maeyeou-ro 1 gil, Dong-gu, Daegu City, 41059	Tel: +82 53 668 0232 Fax: +82 53 668 0275	hyein@korea.kr ;

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CCT	Ms. So-hyun Park	Assistant Director Air Traffic Division Korea Office of Civil Aviation Ministry of Land, Infrastructure and Transport #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel: +82 44 201 4196 Fax: +82 44 201 5631	psohyon@korea.kr ;
AIS	Ms. Jihyang KIM	Assistant Director, Air Traffic Management Office, 50-12, Maeyeou-ro 1 gil, Dong-gu, Daegu City, 41059	Tel: +82 53 668 0259 Fax: +82 53 668 0277	onlyjh8807@korea.kr ;
ARC	Mr. Young-ho Kim	Deputy Director Air Traffic Division Korea Office of Civil Aviation Ministry of Land, Infrastructure and Transport #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel.: +82 44 201 4303 Fax: +82 44 201 5631	kimyh24@korea.kr ;
ARC	Mr. Jun-ho Lee	Assistant Director Air Traffic Division Korea Office of Civil Aviation Ministry of Land, Infrastructure and Transport #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel: +82 44 201 4301 Fax: +82 44 201 5631	garund9@korea.kr ;

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ARC	Mr. Hyung-cheol Kwon	Assistant Director Air Traffic Management Office 50-12, Maeyeou-ro 1 gil, Dong-gu, Daegu City, 41059	Tel: +82 53 668 0253 Fax: +82 53 668 0277	cheol89@korea.kr ;
ADM	Mr. Hyuk Jin KWON	Deputy Director, Air Traffic Division, Korea Office of Civil Aviation, Ministry of Land, Infrastructure and Transport, #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel: +82 44 201 4192 Fax: +82 44 201 5631	jntower@korea.kr ;
ADM	Mr. Taeyong BAEK	Deputy Director, Air Traffic Division, Korea Office of Civil Aviation, Ministry of Land, Infrastructure and Transport, #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel: +82 44 201 4192 Fax: +82 44 201 5631	btbtbt@korea.kr ;
ADM	Ms. Eun Jeong KOO	Assistant Director, Air Traffic Division, Korea Office of Civil Aviation, Ministry of Land, Infrastructure and Transport, #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel: +82 44 201 4300 Fax: +82 44 201 5631	controller99@korea.kr ;
ADM	Ms. So-hyun Park	Assistant Director Air Traffic Division Korea Office of Civil Aviation Ministry of Land, Infrastructure and Transport #11 Doum-ro 6, Sejong Special Self-governing City, 30103	Tel: +82 44 201 4196 Fax: +82 44 201 5631	psohyon@korea.kr ;

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	QATAR			
CCT	Mr. Majed Al Atawi	Acting Director Air Safety Department		Majed.Alatawi@caa.gov.qa ;
CCT	Mr. Ahmed Al-Eshaq	Director of Air Navigation Department		Ahmed@caa.gov.qa ;
	SAUDI ARABIA			
CCT	Mr. Ibrahim Al-Jabri			ialjabri@gaca.gov.sa ;
	RUSSIAN FEDERATION			
CCT	Mr. Sergey Pogrebnov	Deputy Director General, State ATM Corporation HQ	Tel: Fax:	Pogrebnov@matfmc.ru ;
CCT	Mr. Peter Shipil	Director, International Relations and Protocol, State ATM Corporation HQ	Tel: Fax:	shipil@gkovd.ru ;
CCT	Mr. Alexey Buevich	Head of ATFM & Strategic Planning, Main ATM Center of Russia, State ATM Corporation	Tel: +7 495 6010643 Fax: +7 495 601 07 64	matcc@aviacom.ru ;
CCT	Mr. Konstantin Starostin,	Deputy Branch Director for ATM, Far East Air Navigation Branch (Khabarovsk), State ATM Corporation	Tel: Fax:	sko@dv.gkovd.ru ;
CCT	Mr. Viktor Trikopa,	Head of ATM unit, North East Air Navigation Branch (Magadan)	Tel: Fax:	trikopa@sv.gkovd.ru ; acc@sv.gkovd.ru ;
CCT	Mr. Alexey Khrabrov	Chief of ATM Services, PK ACC	Tel: +7 914 788 1874 Fax:	
	SAMOA			
ARC	Mr. Magele Hoe Viali	Secretary for Transport/Chief Executive Officer Ministry of Works, Transport and Infrastructure		hoe.viali@mwti.gov.ws ;

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ARC	Mrs. Yvonne Tuioti Mariner-Viliamu	Director of Civil Aviation/Assistant Chief Executive Officer Civil Aviation Division Ministry of Works, Transport and Infrastructure		yvonne.mariner@mwti.gov.ws ;
SINGAPORE				
SAR	Mr. Tai Kit	Head ATC Specialist (Search and Rescue/ Contingency Planning) Singapore Air Traffic Control Centre 60 Biggin Hill Road Singapore 509950	Tel: +65 6 595 4084 Fax: +65 6542 2548	tai_kit@caas.gov.sg ;
SAR	Mr. Goh Seng Peng Brian	ATC Specialist (Search and Rescue) Singapore Air Traffic Control Centre 60 Biggin Hill Road Singapore 509950	Tel: +65 6 4227051 Fax: +65 6542 2548	brian_goh@caas.gov.sg ;
CCT	Mr. Yeo Khung Hui	Head (ATM – South East Asia 1)/ Head (ATM – Asia Pacific) Chief (ATM - 1) Civil Aviation Authority of Singapore, Singapore Changi Airport, P.O Box 1 Singapore 918141	Tel: +65 6541 2457 Fax: +65 6441 0221	YEO_Khung_Hui@caas.gov.sg ;
ATC	Mr. Thomas Yeo	Senior Chief (SATCC)/ Chief (Approach) Singapore Air Traffic Control Centre 60 Biggin Hill Road Singapore 509950	Tel: +65 6541 2947 Fax: +65 6545 6252	thomas_yeo@caas.gov.sg ;

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ATC	Mr. Harrison Lim Mr. Dennis Wan	Chief (Area) Singapore Air Traffic Control Centre 60 Biggin Hill Road Singapore 509950	Tel: +65 6422 7048 +65 6422 7510 Fax: +65 6545 6252	harrison_lim@caas.gov.sg ; Dennis_Wan@caas.gov.sg ;
AIS	Mr. Vevaganandam Ravichandran	Head (Aeronautical Information Services) Civil Aviation Authority of Singapore Singapore Changi Airport P.O. Box 1 Singapore 918141	Tel: +65 64227036 Fax: +65 64410221	ravichandran_vevaganandam@caas.gov.sg
AIS	Ms. Wong Liang Fen	Specialist (Aeronautical Information Services) Civil Aviation Authority of Singapore Singapore Changi Airport P.O. Box 1 Singapore 918141	Tel: +65 6595 6051 Fax: +65 6441 0221	wong_liang_fen@caas.gov.sg ;
AIS	Ms. Choo Meijing	Deputy Head (Aeronautical Information Services) Civil Aviation Authority of Singapore, Singapore Changi Airport, P.O Box 1 Singapore 918141	Tel: +65 6422 7505 Fax: +65 6441 0221	choo_meijing@caas.gov.sg ;
SAF	Mr Thomas Ng	Covering Head (ANS Safety & Security) Civil Aviation Authority of Singapore, Singapore Changi Airport, P.O Box 1 Singapore 918141	Tel: +65 6422 7042 Fax: +65 6441 0221	Thomas_ng@caas.gov.sg ;
SAF	Mr. Ying Weng Kit	Principal ATC Manager (ANS Safety & Security) Civil Aviation Authority of Singapore, Singapore Changi Airport, P.O Box 1 Singapore 918141	Tel: +65 6595 6763 Fax: +65 6441 0221	ying_weng_kit@caas.gov.sg ;

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ARC	Mr. Jermaine Hoh	Head (ATM - South East Asia 2) Civil Aviation Authority of Singapore, Singapore Changi Airport, P.O Box 1 Singapore 918141	Tel: +65 6541 2436 Fax: +65 6441 0221	jermaine_hoh@caas.gov.sg ;
ADM	Mr. Shum Jin-Chyi Kevin	Director General of Civil Aviation Civil Aviation Authority of Singapore Singapore Changi Airport P. O. Box 1 Singapore 918141	Tel: +65 6541 2010 Fax: +65 6542 1231	kevinshum@caas.gov.sg ;
ADM	Mr Vincent Hwa	Director Air Traffic Services Civil Aviation Authority of Singapore, Singapore Changi Airport P.O. Box 1 Singapore 918141	Tel: +65 6541 2669 Fax: +65 6441 0221	vincent_hwa@caas.gov.sg ;
ADM	Mr. Andrew Wee	Deputy Director (Safety & Standards) Air Traffic Services Division Civil Aviation Authority of Singapore, Singapore Changi Airport, P.O Box 1 Singapore 918141	Tel: +65 6541 3467 Fax: +65 6441 0221	andrew_wee@caas.gov.sg ;
	SOLOMON ISLANDS			
ATC	Mr Alfred Pitaa	Manager Air Traffic Services Ministry of Communication and Aviation PO BOX 1850 HONIARA	Tel: +677 36326 OR +677 36271	APita'a@mca.gov.sb

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ADM	Mr. Brian Halisanau	Director of Civil Aviation (Acting) Civil Aviation Authority of Solomon Islands PO BOX R25, Honiara	Tel: +677 36563	halisanau_b@caasi.com.sb ;
ADM	Mr. Allen Zunia	Technical Officer – ANS/CNS/MET Civil Aviation Authority of Solomon Islands PO BOX R25, Honiara		zunia_a@caasi.com.sb ;
SRI LANKA				
SAR	Mr. Nishan Abeywardena	Head of Air Navigation Services Air Navigation Services Complex Bandaranaike International Airport, Katunayake. Sri Lanka	Tel: +94 11 2252062 Fax: +94 11 2252062 Mobile: +94 11 768242691	head.ans@airport.lk
CCT	Mr. Sumith Tennakoon	Senior Manager – Air Traffic Control	Tel: +94 11 2623030 Ext: 251 Fax: +94 112635105 Mobile: +94 777703854	sumithatc.ans@airport.lk ;
ATC	Mr. Nishan Abeywardena	Head of Air Navigation Services Air Navigation Services Complex Bandaranaike International Airport, Katunayake. Sri Lanka	Tel: +94 11 2252062 Fax: +94 11 2252062 Mobile: +94 11 768242691	head.ans@airport.lk ;
AIS	Mr. M.P. Bowatte	Manager AIS Aeronautical Information Services Airport & Aviation Services (SL) Ltd. Bandaranaike International Airport, Katunayake	Tel: +94 11 226 4229 Fax: +94 11 225 9916	mpb.ais.ans@airport.lk ;

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AIS	Mr. Asanga Senarath Bandara	Senior Electronics Engineer (Surveillance/ATM/AIM) / Project Manager of AIM System Implementation Project of Sri Lanka Airport & Aviation Services (Sri Lanka) Limited Electronics & Air Navigation Engineering Division Navigational Services Complex Bandaranaike International Airport, Katunayake	Tel: +94 76 824 2654, +94 11 226 3619 Fax: +94 11 225 2400	asanga.eane@airport.lk ; asangasenarath@gmail.com ;
ARC	Ms. Vineetha Senanayake	Senior Civil Aviation Inspector (AIS) Civil Aviation Authority of Sri Lanka	Tel: +94 11 2358851 Fax: +94 11 2253627	scaiais@caa.lk ;
ADM	Mr. M. A. K. Prasanna	Director Air Navigation Services, Civil Aviation Authority of Sri Lanka No. 152/1, Minuwangoda Road Katunayake	Tel: +94 11 2253863, +94 11 2358849 Fax: +94 11 2257159	dans@caa.lk ;
ADM	Capt. Themiya Abeywickrama	Director General & Chief Executive Officer Civil Aviation Authority of Sri Lanka 152/1, Opposite Radar Hill Katunayake –Minuwangoda Road Katunayake	Tel: +94 11 22 52 017 (direct line) Fax: +94 11 22 52 038	sldgca@slt.lk ; sldgca@caa.lk ;
ADM	Mr. Nishan Abeywardena	Head of Air Navigation Services Air Navigation Services Complex Bandaranaike International Airport, Katunayake	Tel: +94 11 2252062 Fax: +94 11 2252062 Mobile: +94 11 768242691	head.ans@airport.lk ;

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ADM	Ms. Vineetha Senanayake	Senior Civil Aviation Inspector Civil Aviation Authority of Sri Lanka No.152/1, Minuwangoda Road Katunayake	Tel: +94 11 2358851 Fax: +94 11 2253627	scaiais@caa.lk ;
	TAJIKISTAN			
CCT	Mr. Alisher A. Shambiev,	First Deputy of Director General, SUE "Tajikairnavigation"	Tel: +992 48 701-17-20	a.shambiev@airnav.tj ;
	THAILAND			
SAR	Mr. Punlop Sungsilert (Principle SAR Contact)	Chief of Technical and Standard Group Transport Technical Officer, Professional Level Office of the Search and Rescue Commission Ministry of Transport	Tel: +66 2 287 4717 Mobile: +6689 7960 368 Fax: +66 2 286 2925	punlopsung@yahoo.com ; punlop.s@mot.go.th ;
SAR	Ms. Natkitta Srithaweepan	Transport Technical Officer, Professional Level Office of the Search and Rescue Commission Ministry of Transport	Tel: +66 2 285 5451 Fax: +66 2 286 2925	natkitta.s@mot.go.th ;
SAR	Mr. Thanatip Jantarapakde	Chief of Vessel Traffic Control Section, Vessel Traffic Control and Maritime Security Office Marine Department of Thailand	Tel/Fax: +6638400271 +66 38 495161-3	thanatipj@hotmail.com ; thanatip.j@md.go.th ;
SAR	Mr. Damrongkiat Kiatopas	Harbour Master Harbour Master Section Marine Safety and Environment Bureau The Marine Department, Thailand	Tel: +66 2 2341070 Fax: +66 2 2382309	k.damrongkiat@gmail.com ;

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SAR	Pol.Lt.Col.Phitik Rerngphitak	Chief of Search and Rescue Coordination Group Transport Technical Officer, Professional Level Office of the Search and Rescue Commission, Ministry of Transport	Mobile: +66 89 545 4699	rerngphitak@yahoo.com ;
CCT	Mr. Piyawut Tantimekabut	Air Traffic Management Network Manager Network Operations Air Traffic Management Center Aeronautical Radio of Thailand Ltd (AEROTHAI) 102 Soi Ngamduplee, Tungmahamek, Sathon Bangkok 10120 Thailand	Tel: +66 2 287 8616 Fax: Mobile: +66 89 697 5859	piyawut@aerothai.co.th ;
ATC	Ms. Suppanat Hannarongsag	Senior Director, Bangkok Area Air Traffic Control Management Bureau Aeronautical Radio of Thailand Ltd (AEROTHAI) 102 Soi Ngamduplee Tungmahamek, Sathon, Bangkok 10120	Tel: +66 2 287 8808 Mobile: +66 85 481 1646	suppanat.ha@aerothai.co.th ;
AIS	Mr. Chai Kaewkitinarong	Chief of Aeronautical Information Service Oversight Division 333/105 9th Floor Laksi Plaza Building, Khampheng Phet 6 Rd., Talat Bangkhen, Laksi, Bangkok 10210	Tel: +66 2 568 8825	chai.k@caat.or.th ;
AIS	Mr. Jakrin Kutantham	Aeronautical Information and Chart Standards Officer 333/105 9 th Floor Laksi Plaza Building, Khampheng Phet 6 Rd., Talat Bangkhen, Laksi, Bangkok 10210	Tel: +66 2 568 8825 Fax:	jakrin.k@caat.or.th ;

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AIS	Ms. Papasrin Jirawiwatkul	Chief of Aeronautical Information Division The Civil Aviation Authority of Thailand 333/105 7 th Floor Laksi Plaza Building, Khampheng Phet 6 Rd., Talat Bangkhen, Laksi, Bangkok 10210	Tel: +66 63 205 8830 Fax: +66 2 576 1903	papasrin.j@caat.or.th ;
AIS	Ms. Sujin Promduang	Director, Aeronautical Information and Flight Data Management Centre Aeronautical Radio of Thailand Limited 102 Ngarmduplee, Rama IV Road Tungmahamek, Sathon Bangkok 10120	Tel: +66 2 285 9083 Fax: Mobile: +66 81 915 0560	sujin.pr@aerothai.co.th ;
SAF	Mr. Kajonpat Maklin	Manager, Aviation Safety Management Department the Civil Aviation Authority of Thailand (CAAT) 333/105 11th Floor Laksi Plaza Building, Khampheng Phet 6 Rd., Talat Bangkhen, Laksi, Bangkok 10210	Tel: +66 2 568 8813	kajonpat.m@caat.or.th ;
SAF	Mr. Theeravut Sungseemek	Director, Safety Management Department Aeronautical Radio of Thailand Ltd. (AEROTHAI) 102 Soi Ngamduplee, Tungmahamek, Sathon Bangkok 10120 Thailand	Tel: +66 2 285 9677 Fax: Mobile: +66 61 403 1146	theeravut.su@aerothai.co.th ;

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ARC	Mr. Pawat Harnbumrunakit	Chief of Airspace and Flight Procedure Oversight Division The Civil Aviation Authority of Thailand (CAAT) 333/105 9th Floor Laksi Plaza Building, Khampheng Phet 6 Rd., Talat Bangkhen, Laksi, Bangkok 10210	Tel: +66 2 568 8825	pawat.h@caat.or.th ;
ARC	Mr. Winyou Sriwong	Senior Director, Air Traffic Management Network Bureau Aeronautical Radio of Thailand Ltd. (AEROTHAI) 102 Soi Ngamduplee, Tungmahamek, Sathon Bangkok 10120 Thailand	Tel: +66 2 285 9692 Fax: Mobile: +66 89 039 7421	winyou.sr@aerothai.co.th ;
ADM	Mr. Sarun Benjanirat	Deputy Director General Acting for Director General the Civil Aviation Authority of Thailand (CAAT) 333/105 Lak Si Plaza, Khamphaeng Phet 6 Road Talat Bang Khen, Lak Si, Bangkok 10210	Tel: +66 2 568 8800 Fax: +66 2 568 8844	Sarun.b@caat.or.th ;
ADM	Ms. Tawika Huayhongtong	Manager, Air Navigation Services Standards Department the Civil Aviation Authority of Thailand (CAAT) 333/105 Lak Si Plaza, Khamphaeng Phet 6 Road, Talat Bang Khen, Lak Si, Bangkok 10210	Tel: +66 2 568 8825 Fax: +66 2 568 8844	tawika.h@caat.or.th ;

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ADM	Miss Amornrat Jirattigalachote	Strategic Planning Manager (Engineering) Policy and Strategy Management Bureau Aeronautical Radio of Thailand Ltd. (AEROTHAI) 102 Soi Ngamduplee, Tungmahamek, Sathon Bangkok 10120 Thailand	Tel: +66 2 287 8262 Mobile: +66 81 887 2535	amornrat.ji@aerothai.co.th ;
TONGA				
ATC	Mr. Tino Fuka	Chief Operating Officer Tonga Airports Limited Fua'amotu International Airport P.O. Box 876 Nuku'alofa	Tel: +676 35212 Mobile: +676 7767264	tfuka@tongaairports.com ;
ARC	Hon. Semisi K L Sika	Deputy Prime Minister and Minister for Infrastructure and Tourism		misisika@gmail.com ;
ARC	Mr. Ringo K Fa'oliu	Chief Executive Officer for Infrastructure		rfaoliu0708@gmail.com ; ringo.faoliu@moi.gov.to ;
TURKEY				
CCT	Mr. Ayhan Öztekin	Air Traffic Manager, DHMI HQ, Ankara	Tel: +90 312 2042290 Fax: +903122220976	Ayhan.Oztekin@dhmi.gov.tr ;
CCT	Mr. Sıtkı Kağan Ertas	Air Navigation Department General Directorate of State Airports Authority	Tel: +90 312 2042592 Fax: +90 3122220976	Kagan.Ertas@dhmi.gov.tr ;
TURKMENISTAN				

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CCT	Mr. Batyr Chikayev	Chief of Ashgabat ACC, "Turkmenhowayollary", State Civil Aviation Department	Tel: + 99 312233880 Fax: + 99 312230199	
	UAE			
CCT	Mr. Hamad Rashid Al Belushi	Director Air Traffic Management GCAA P.O Box 666, Abu Dhabi	Tel.: +971 2 5996830, +971 50 6164350 Fax: +971 2 5996836	hbelushi@szc.gcaa.ae;
CCT	Mr. Ahmed Al Jallaf	Assistant Director General Air Navigation Services Sector GCAA P.O Box 666, Abu Dhabi	Tel.: +971 2 5996888, +971 50 6599242 Fax: +971 2 5996883	aljallaf@szc.gcaa.ae;
ATC	UAE ANS			aldossari@gcaa.gov.ae;
	UNITED STATES OF AMERICA			
SAR	Mr. David Edwards	Chairman, ICAO/IMO Joint Working Group SAR U.S. Coast Guard U.S. Coast Guard Search and Rescue	Tel: +1 202 372 2087 Fax: +1 202 372 8384	david.l.edwards@uscg.mil;
SAR	Ms. Jennifer Conklin	Search and Rescue Manager Fourteenth Coast Guard District 300 Ala Moana Blvd Honolulu, Hawaii 96850-4982	Tel: +1 808 535 3342	Jennifer.J.Conklin@uscg.mil;

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ATM/ CCT	Mr. Michael Watkins	Senior ATO Representative Asia/Pacific Region Air Traffic Organization, International Office Federal Aviation Administration Air Traffic Representative US Embassy 27 Napier Road Singapore 258508	Tel: +65 6476 9462 Fax: +65 9228 6216 Mobile: +65 9228 2612	michael.w.watkins@faa.gov ;
ATM/ CCT	Mr. Greg Byus		Tel: +1 540 422 4570 Mobile: +1 202 281 6513	Greg.Byus@faa.gov ;
CCT	Mr. Robert Roxbrough			robert.roxbrough@faa.gov ;
SAF	Ms. Christine Falk	Operations Research Analyst Separation Standards Analysis Team (PARMO RMA) Federal Aviation Administration William J. Hughes Technical Center Atlantic City, NJ 08405	Tel: +1 609 485 6877	christine.falk@faa.gov ; parmo@faa.gov ;
AIS	Ms. Jodi Brainard	International Aero Representative NGA Aeronautical Office 3838 Vogel Rd. Mail Stop L-27 Arnold, Missouri 63010	Tel: +1 314 676 0595 Fax: +1 314 676 3044	Jodi.A.Brainard@nga.mil ;
ARC	Mr. Jerry Torres	Manager U.S. NOTAM Office Operations and Policy Group		jerry_torres@faa.gov ;
ARC	Mr. Gary Bobik	FAA Contractor Senior Program Analyst		gary_ctr.bobik@faa.gov ;

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ADM	Mr. James Duke	Chief, Airspace Management Branch Command Airspace Manager HQ Pacific Air Forces Hickam AFB, HI 9685	Tel: +1 808 449 1948	James.duke@us.af.mil ;
ADM	Mr. Admad Usmani	International Office, Asia Pacific Region Air Traffic Organization, Systems Operations Federal Aviation Administration 800 Independence Ave. S.W. Washington, D.C. 20591	Tel: +1 202 267 0913	Ahmad.usmani@faa.gov ;
ADM	Ms Ashlei Nadler	Principal Staff Officer Interagency Group on International Aviation (IGIA) Office of International Aviation API-20, Department of Transportation Federal Aviation Administration 800 Independence Avenue, S.W. Washington, D.C. 20591	Tel: +1 (202) 385 8866 Fax: +1 (202) 267 5499	9-AWA-API-IGIA@faa.gov ;
ADM	Mr. Sam El-Zoobi	International Office, Asia Pacific Region Air Traffic Organization, Systems Operations Federal Aviation Administration 800 Independence Ave. S.W. Washington, D.C. 20591	Tel: +1 202 3858089	sam.el-zoobi@faa.gov ;
	VANUATU			
ARC	Ms. Jackie Langati Trief	Director Civil Aviation Authority of Vanuatu		civav@vanuatu.com.vu ; jlangati.civav@vanuatu.com.vu ;

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	VIET NAM			
SAR	Mr. Duong Van Khe	Director Aviation Search and Rescue Coordination Centre – VATM 6/200 Nguyen Son street, Long Bien District, Ha Noi	Tel: +8424 3872 1658 Mobile: +84 962 137 685	duongvankhe@vatm.vn ;
SAR	Mr. Nguyen The Hung	Director Air Navigation Department Civil Aviation Authority of Viet Nam 119 Nguyen Son Street, Long Bien District Ha Noi, Viet Nam	Tel: +8424 3827 4191 Fax: +8424 3927 4194 Mobile: +84 936 700 729	hungand@caa.gov.vn ; hungand_caav@yahoo.com ;
CCT	Mr. Nguyen The Hung	Director Air Navigation Department Civil Aviation Authority of Viet Nam 119 Nguyen Son Street, Long Bien District Ha Noi, Viet Nam	Tel: +8424 3827 4191 Fax: +8424 3927 4194 Mobile: +84 936 700 729	hungand@caa.gov.vn ; hungand_caav@yahoo.com ;
CCT	Mr. Bui Thanh Ha	Director ATS Department – VATM 6/200 Nguyen Son street, Long Bien District, Ha Noi	Tel: +8424 3872 5272 Fax: +8424 3872 5281	habt@vatm.vn ; buithanhhaatc@yahoo.com ;
ATC	Mr. Nguyen The Hung	Director Air Navigation Department Civil Aviation Authority of Viet Nam 119 Nguyen Son Street, Long Bien District Ha Noi, Viet Nam	Tel: +8424 3827 4191 Mobile: +84 936 700 729 Fax: +8424 3927 4194	hungand@caa.gov.vn ; hungand_caav@yahoo.com ;

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ATC	Mr. Bui Thanh Ha	Director ATS Department – VATM 6/200 Nguyen Son street, Long Bien District, Ha Noi	Tel: +8424 3872 5272 Fax: +8424 3872 5281	habt@vatm.vn ; buithanhhaatc@yahoo.com ;
AIS	Mrs. Tran Duc Hoai Phuong	Deputy Director Air Navigation Department Civil Aviation Authority of Viet Nam 119 Nguyen Son street, Long Bien District, Ha Noi	Tel: +8424 3873 1611 Fax: +8424 3827 4194	phuongtd@caa.gov.vn ;
AIS	Mrs. Ngo Thi Thuy Van	Deputy Director Viet Nam Aeronautical Information Centre (VNAIC) – VATM 6/200 Nguyen Son street, Long Bien District, Ha Noi	Tel: +84 912054569 Fax: +8424 3872 5687	thuyvanais@gmail.com ;
ARC	Mr. Nguyen The Hung	Director Air Navigation Department Civil Aviation Authority of Viet Nam 119 Nguyen Son Street, Long Bien District Ha Noi, Viet Nam	Tel: +8424 3927 4191 Fax: +8424 3827 4194 Mobile: +84 936 700 729	hungand@caa.gov.vn ;
SAF	Mr. Nguyen The Hung	Director Air Navigation Department Civil Aviation Authority of Viet Nam 119 Nguyen Son Street, Long Bien District Ha Noi, Viet Nam	Tel: +8424 3927 4191 Fax: +8424 3827 4194 Mobile: +84 936 700 729	hungand@caa.gov.vn ; hungand_caav@yahoo.com ;

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SAF	Mr. Ngo The Vinh	Director, Safety – Quality - Security Department - VATM 6/200 Nguyen Son street, Long Bien District, Ha Noi	Tel/Fax: +8424 3872 7797 Fax: +8424 3872 5281 Mobile: +84975658899	ngothevinh@vatm.vn ;
ADM	Mr. Dinh Viet Thang	Director General Civil Aviation Authority of Viet Nam Address 119 Nguyen Son Street, Long Bien District, Ha Noi	Tel: +8424 38272241/38272352 Fax: +8424 38271933/38272240	thangdv@caa.gov.vn ; iad@caa.gov.vn ;
	CANSO			
CCT	Mr. Chiang Hai Eng	Director Asia Pacific Affairs Civil Air Navigation Services Organization Asia Pacific Office Singapore Aviation Academy 1 Aviation Drive Singapore 499867	Tel: Fax:	hai.eng.chiang@canso.org ;
ADM	Mr. Chiang Hai Eng	Director Asia Pacific Affairs Civil Air Navigation Services Organization Asia Pacific Office Singapore Aviation Academy 1 Aviation Drive Singapore 499867	Tel: Fax:	hai.eng.chiang@canso.org ;
	EUROCONTROL			

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CCT	Mr. Tihomir Todorov	EUROCONTROL Network Management Directorate Airspace and Capacity Division Operations Planning Unit Head of Section Airspace Design	Tel: +32 2 729 31 34	Tihomir.TODOROV@eurocontrol.int ;
CCT	Mr. Razvan Bucuroiu	EUROCONTROL Network Management Directorate Head of Airspace and Capacity Division/Acting Head of Operations Planning Unit	Tel: +32 (0)2 7293648	razvan.bucuroiu@eurocontrol.int ;
	IATA			
SAR	Mr. John Moore	ASPAC Assistant Director – Safety and Flight Operations IATA Singapore	Tel: +65 64992529 Mobile: +65 92470139	moorej@iata.org ;
CCT	Ms. Zainab Khudhair	IATA MENA Office Jordan Manger Safety & flight Operations	Tel: +962 6 5804200 Mobile: +962795222602	khudhairz@iata.org ;
CCT	Mr. John Moore	ASPAC Assistant Director – Safety and Flight Operations IATA Singapore	Tel: +65 6499 2529 Fax: Mobile: +65 92470139	moorej@iata.org ;
CCT	Mr. Yoshiki Imawaka	Executive Advisor, ANA Holdings Inc. Shiodome City Center, 1-5-2 Higashi Shimbashi, Minato-ku, Tokyo, 105-7140, Japan	Tel: +81 50 3756 8520 Fax: +81 3 6735 5770	y.imawaka@anahd.co.jp ;

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CCT	Mr. Kim Jung Sik	Chief Specialist, CNS/ATM, FLT OPS Technical Support, Korean Air.	Tel: +822 2656 6249 Mobile: +822 10 97516551	jungsikkim@koreanair.com ;
CCT	Capt Nilesh Patel	Head, Regulatory and International Affairs' Singapore Airlines	Tel: +65 65481662 Mobile: +65 93699951	nileshm_patil@singaporeair.com.sg ;
CCT	Capt Nithaar Zain	Senior Manager Technical and Flight Services; Singapore Airlines	Tel: +65 65411023 Mobile: +65 9821 2541	nithaar_zain@singaporeair.com.sg ;
CCT	Mr. Julian Fung	International Operations Manager Flight Operations Dept Cathay Pacific Airways Ltd	Tel: +852 27473818 Mobile: +852 97473573	julian_fung@cathaypacific.com ;
CCT	Ms. Lori Shaw	Head of Regulatory Affairs - Flight Ops and Industry; Cathay Pacific	Tel: +852 27478829 Mobile: +852 67402947	Lori_shaw@cathaypacific.com ;
ATC	Mr. Blair Cowles	Regional Director, Safety & Flight Operations – ASPAC IATA	Tel: +65 6499 2395 Mobile: +65 9012 3170	cowlesb@iata.org ;
ATC	Mr. John Moore	ASPAC Assistant Director – Safety and Flight Operations IATA Singapore	Tel: +65 64992529 Mobile: +65 92470139	moorej@iata.org ;
ATC	Mr. Yoshiki Imawaka	Executive Advisor, ANA Holdings Inc. Shiodome City Center, 1-5-2 Higashi Shimbashi, Minato-ku, Tokyo, 105-7140, Japan	Tel: +81 50 3756 8520 Fax: +81 3 6735 5770	y.imawaka@anahd.co.jp ;
AIS	Mr. John Moore	ASPAC Assistant Director – Safety and Flight Operations IATA Singapore	Tel: +65 64992529 Mobile: +65 92470139	moorej@iata.org ;

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SAF	Mr. John Moore	ASPAC Assistant Director – Safety and Flight Operations IATA Singapore	Tel: +65 64992529 Mobile: +65 92470139	moorej@iata.org ;
SAF	Mr. Hakimuddin (Hakim) Patanwala	Manager, Safety & Flight Operations – ASPAC IATA	Tel: +6564992253 Mobile: +6583038426	patanwalah@iata.org ;
ARC	Mr. Blair Cowles	Regional Director, Safety & Flight Operations – ASPAC IATA	Tel: +65 6499 2395 Mobile: +65 9012 3170	cowlesb@iata.org ;
ARC	Mr. John Moore	ASPAC Assistant Director – Safety and Flight Operations IATA Singapore	Tel: +65 64992529 Mobile: +65 92470139	moorej@iata.org ;
ADM	Mr. Hakimuddin (Hakim) Patanwala	Manager, Safety & Flight Operations – ASPAC IATA	Tel: +6564992253 Mobile: +6583038426	patanwalah@iata.org ;
	ICAO			
CCT	Mr. Mike Boyd	Technical Officer, ICAO HQ	Tel: +1 514 954 8219 X 5323 Fax: Mobile: +1 514 6912693	mboyd@icao.int ;
CCT	Mr. Chris Dalton	Chief, Airspace Management and Organization ICAO HQ	Tel: +1 514 954 6711 Fax: +1 514 954 8197 Mobile: +1 514 9510283	cdalton@icao.int ;
CCT	Mr. Raphael Guillet	Chief, ICAO APAC Regional Sub-Office, Beijing	Tel: +86 10 64557179 Fax: +86 10 64557164 Mobile: +86 18510853925	rguillet@icao.int ;

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CCT	Mr. Sven Halle	Regional Officer, ICAO Paris	Tel: Fax:	shalle@icao.int ;
CCT	Mr. Elie El Khoury	Regional Officer, ICAO Cairo	Tel: Fax:	ekhoury@icao.int ; icaomid@icao.int ;
CCT	Mr. Shane Sumner	Regional Officer, ICAO Bangkok	Tel: + 66 2 537 8189 X 159 Fax: +66 2 5378199 Mobile: +66 9 707 3 2424	ssumner@icao.int ;
CCT	Mr. Hiroyuki Takata	Regional Sub-Office, Beijing	Tel: Fax: +86 10 64557164	htakata@icao.int ;
CCT	Mr. Leonard (Len) Wicks	Regional Officer, ICAO Bangkok	Tel: + 66 2 537 8189 X 152 Fax: +66 2 5378199 Mobile: +66 8 49073260	lwicks@icao.int ;
CCT	Ms. Keziah A Ogutu	Regional Officer ATM/SAR, ICAO ESAF	Tel: +254 (0)20 7622372/7622395 Fax: +254 (0)20 7621092/7623028 Mobile: +254 722386001	kogutu@icao.int ;
	ICCAIA			
ADM	Warren BEESTON	ATM Expert - Operational Authority Director Thales Air Systems 3, avenue Charles Lindbergh 94628 Rungis Cedex	Tel: +33 (0)1 79 6123 49 Mobile: +33 (0)6 37 49 12 34	warren.beeston@thalesgroup.com ;

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	IFALPA			
ADM	Capt. Amornvaj Mansumitchai	Executive Vice President, Asia/Pacific, IFALPA 484 Rachadinivet Soi 12 Pracharajbampen Rd Huaykhwang Bangkok 10320, Thailand	Tel: +66 02 274 3673 +66 81 3446055 Fax: +66 02 513 0030	amornvaj@gmail.com ;
ADM	SFO Thasan Bureechana	Regional Vice President, Asia East IFALPA 3 rd Floor, 5 th Building Thai Airways International Public Company 89 Vibhavadi – Rangsit Road Chatuchak Bangkok 10900 Thailand	Tel: +66 2 5454046 Fax: +66 2 5130030 Mobile: +66 81 935 0126	thasancom@yahoo.com ;
	IFATCA			
ADM	Mr. Anthony Ang	Executive Vice-President Asia Pacific International Federation of Air Traffic Controllers' Associations (IFATCA)	Tel: +65 9797 0252	anthony.ang@ifatca.org ;
	IMO			
SAR	Mr. Hans Van Der Graaf	Senior Technical Officer Operational Safety Section Maritime Safety Division International Maritime Organization	Tel: +44 20 7587 3111 Fax: +44 20 7587 3210 Mobile: +44 781 443 4991	hvander@imo.org ;
	SITA			

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ADM	Mr. Diego Albert	ATM Senior Business Development Manager SITAONAIR, SITA 11 Loyang way Singapore	Tel: + 65 9017 7895	diego.albert@sitaonair.aero ;