

INTERNATIONAL CIVIL AVIATION ORGANIZATION



**ASIA-PACIFIC REGIONAL STRATEGY
FOR
COVID-19-RELATED ATM CONTINGENCY RECOVERY**

Developed by the ICAO Asia/Pacific Regional Office

ASIA-PACIFIC REGIONAL STRATEGY FOR COVID-19-RELATED ATM CONTINGENCY RECOVERY

Air Navigation Service Provider (ANSP) Actions	
1.	Respond to the Second Survey on COVID-19-related ATM capacity (Appendix A), to support development of a regional overview of ATM capacity and recovery capacity. - Forward the completed survey to the ICAO Asia/Pacific Regional Office (apac@icao.int) as soon as possible (preferably not later than 31 July 2020). - Inform the Regional Office of any subsequent changes to ATM capacity.
2.	Regularly review the Checklist: Asia/Pacific COVID-19 Contingency Operations and Recovery, (Appendix B) and report any status updates to ICAO Asia/Pacific Regional Office apac@icao.int .
3.	Establish regular liaison between ANSP and government COVID-19 decision-makers. Ensure government COVID-19-related decisions on relaxation of entry restrictions fully take into account local and regional Air Navigation Services' needs for advance notification.
4.	Ensure government COVID-19 decision-makers are kept fully informed of ATM readiness. - ANSP contingency operations or limitations that may impact upon or be impacted by any relaxation of entry restrictions. - Neighbouring States' ANSP contingency operations or limitations that may impact upon or be impacted by any resumption of traffic (see item 7. below).
5.	Ensure there is an effective agreement between government COVID-19 decision-makers and the ANSP for minimum advance notification of decisions to relax entry requirements. - city pairs. - State-to-State 'travel bubbles'. - unrestricted entry. - ideally not less than 14 days advance notification of the effective date of any relaxation of entry restrictions.
6.	Conduct air traffic demand prediction analyses. - regular analysis, to develop demand prediction processes and be aware of any trends; - specific demand analyses for each case of proposed relaxation of entry restrictions for city pairs, 'travel bubbles' or unrestricted entry. - ATFM demand/capacity analyses where implemented. - other information sources, e.g. Aviation Regulator, CANSO traffic prediction, IATA; - a list of links to COVID-19-related information is provided in Appendix D.
7.	Establish regular liaison between ANSP and airport authorities. ensure mutual understanding of the impact of ATM capacity and airport capacity limitations on airport and ATM operations.
8.	Keep all neighbouring ANSPs informed of current and planned ATM contingency and recovery operations through regular bilateral and/or multi-lateral Collaborative Decision-Making (CDM) conferencing. - Daily information sharing conferences recommended, otherwise weekly, as a minimum. - any planned relaxation of entry restrictions. - results of demand prediction analyses. - The ICAO COVID-19 Outbreak Simplified Procedure for ATM CDM and Sharing of Information provides further information, including guidance and templates for ATM/CDM teleconferencing.
9.	Notify ICAO Asia/Pacific Regional Office of: - any changes to ATM contingency status and arrangements; - any planned relaxation of entry restrictions resulting in a recovery of traffic (full or partial); and - Any changes to Contingency Coordination Team (CCT) or ATC Points of Contact (Appendix D). apac@icao.int; ssumner@icao.int; lwicks@icao.int.

ICAO Asia/Pacific Regional Office Actions	
1.	On receipt of notification from the ANSP of changes to ATM contingency arrangements, or relaxation of entry requirements, ICAO APAC Regional Office will, where considered necessary, coordinate the convening of Contingency Coordination Teams – <i>Recovery</i> (CCTs-<i>Recovery</i>) to assess and coordinate: a. readiness of all affected FIRs (including other ICAO Regions where necessary); b. existing COVID-19-related NOTAMs; c. traffic demand predictions; d. Air Traffic Flow Management (ATFM, where capability exists) or other traffic mitigation requirements; e. agreed common commencement date/time of flights under relaxed entry requirements or other resumption of ATM operations (if necessary); f. reviewed or new NOTAMs as required; g. situation monitoring and reporting; and h. follow-up VTCs.
2.	CCTs- <i>Recovery</i> consisting of relevant APAC Administrations, ICAO, IATA and other relevant International Organizations may be convened on a case-by-case basis. They may be expanded or merged where necessary.
3.	CCTs- <i>Recovery</i> will communicate and confer by electronic means, including email, Video Teleconference (VTC) and, where necessary, telephone.
4.	CCTs will continue to be separately formed where necessary to coordinate the regional response to ATM contingency operations unrelated to the COVID-19 pandemic.

APPENDIX A: SECOND SURVEY ON COVID-19-RELATED ATM CAPACITY

1. Completed survey to be forwarded to the ICAO Asia/Pacific Regional Office (apac@icao.int) by C.O.B Friday 31 July 2020.
2. Further completed survey forms should be forwarded to ICAO whenever the capacity information changes.
3. The form is available in MS Word format on the ICAO Asia/Pacific Regional Office COVID-19 website at <https://www.icao.int/APAC/Pages/COVID-19.aspx>.

Note: The purpose of this second survey is to provide a general overview of regional COVID-19-related ATM capacity for recovery of 'normal' traffic levels for both overflight and arrival/departure. The survey is a further development of the initial survey of COVID-19-related ATM capacity conducted in June 2020, and is intended to provide further information for sub-regional and regional recovery planning.

Indicate your ANSP's current ATM capability/capacity compared to normal full capacity (December 2019)			
Overflight Traffic			
<i>Where more than one ACC is established, indicate overall overflight capacity for the ANSP</i>			
☐ 0 – 25%	☐ 26 – 50%	☐ 51 – 75%	☐ 76 – 100%
Arriving/Departing Traffic			
<i>Where more than one ACC/TMA/TWR is established, indicate overall ARR/DEP capacity for the ANSP</i>			
☐ 0 – 25%	☐ 26 – 50%	☐ 51 – 75%	☐ 76 – 100%

If your ANSPs current ATM capability/capacity is less than 100% of full capacity (December 2019), indicate how long it would take to reach the following capacity levels:			
Overflight Traffic			
<i>Where multiple ACCs are established, indicate overall/combined recovery periods for the ANSP, for overflight traffic.</i>			
Percentage of Full (Dec 2019) Capacity	3 Days	7 Days	14 Days
50%	☐	☐	☐
75%	☐	☐	☐
100%	☐	☐	☐
Arriving/Departing Traffic			
<i>Where multiple ACC and/or TMA units are established, indicate overall/combined recovery periods for the ANSP, for arriving/departing traffic.</i>			
Percentage of Full (Dec 2019) Capacity	3 Days	7 Days	14 Days
50%	☐	☐	☐
75%	☐	☐	☐
100%	☐	☐	☐

APPENDIX B: CHECKLIST: ASIA/PACIFIC COVID-19 CONTINGENCY OPERATIONS AND RECOVERY

Note: *Originally distributed as an APAC survey of regional contingency readiness, the survey questions may also serve as a checklist of considerations for States to assess and update their contingency readiness.*

CURRENT AND ONGOING CONTINGENCY OPERATIONS		
Check the box if the Air Navigation Service Provider:		
1.	☐	Established an ATM Central Coordinating Committee (CCC) function for the development, maintenance, activation and conduct of contingency plans, and for the forming of an ATM Operational Contingency Group (AOCG) function. <i>Ref: APAC Regional ATM Contingency Plan elements 5.8, 5.9, 7.1</i>
2.	☐	Convened an ATM Operational Contingency Group for COVID-19-related contingency <i>Ref: APAC Regional ATM Contingency Plan elements 5.10, 5.11, 7.1</i>
3.	☐	Established Level 1 contingency plans for all ATS units, for services that are reduced or withdrawn due to pandemic. <i>Ref: APAC Regional ATM Contingency Plan elements 1.3, 5.5 to 5.7, 5.12, 7.1 to 7.7 and Appendix C</i>
4.	☐	Established Level 2 contingency arrangements with all neighbouring administrations, for reduced or withdrawn ATS affecting cross-border flights. <i>Ref: APAC Regional ATM Contingency Plan elements 1.3, 5.5 to 5.7, 5.12, 7.1 to 7.7 and Appendix C</i>
5.	☐	Established contingency ATS routes, Flight Level Allocation Scheme/s (FLAS) and associated procedures applicable to COVID-19-related contingency operations in the event of reduced or withdrawn ATS affecting cross-border flights. <i>Ref: APAC Regional ATM Contingency Plan elements 1.3, 5.5 to 5.7, 5.12, 7.1 to 7.7 and Appendix C</i>
6.	☐	Published details of ATS contingency routes and Flight Level Allocation Schemes (FLAS) in AIP <i>Ref: APAC Regional ATM Contingency Plan element 7.6</i>
7.	☐	Prepared template NOTAMs for promulgation of ATS contingency routes, FLAS and procedures, in readiness for COVID-19-related reduction or withdrawal of services. <i>Ref: ICAO State Letter AP086/20 (ATM)</i>
8.	☐	Due to COVID-19, developed and implemented a process for monitoring current and expected traffic demand.
9.	☐	Due to COVID-19, implemented processes in ATS units to reduce the risk of virus transmission (e.g. social distancing, protective clothing/face masks, roster segregation)
10.	☐	Due to COVID-19, implemented processes in ATS units for frequent sterilization of shared workstations and other equipment.
11.	☐	Due to COVID-19, implemented processes for COVID-19 tests and follow-up medical treatment (if necessary) for licensed ATC and other key personnel. (ATC, AIS, FIS, RFF, SAR, and CNS technical maintenance personnel)

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CURRENT AND ONGOING CONTINGENCY OPERATIONS		
Check the box if the Air Navigation Service Provider:		
1.	☐	Due to COVID-19, amended or relaxed regulations for ATC licensing, license validity and medical certification. <i>Ref: ICAO Annex 1 Personnel Licensing section 4.5 and chapter 6.</i> ☐ Registered a Difference in the ICAO EFOD system. (see CCRD).
2.	☐	Due to COVID-19, implemented a program of refresher training for maintenance of ATC skills in preparation for resumption of normal traffic demand.
3.	☐	Due to COVID-19, implemented processes to ensure the validity of performance assessments demonstrating ATC skills required for normal (pre-COVID-19) traffic.
Comments		

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APPENDIX C: REFERENCES AND LINKS

REFERENCES	
ICAO Annex 11 – Air Traffic Services - Standards and Recommended Practices	
2.3.2	Contingency Arrangements Air traffic services authorities shall develop and promulgate contingency plans for implementation in the event of disruption, or potential disruption, of air traffic services and related supporting services in the airspace for which they are responsible for the provision of such services. Such contingency plans shall be developed with the assistance of ICAO as necessary, in close coordination with the air traffic services authorities responsible for the provision of services in adjacent portions of airspace and with airspace users concerned. <i>Note 1.— Guidance material relating to the development, promulgation and implementation of contingency plans is contained in Attachment C.</i> <i>Note 2.— Contingency plans may constitute a temporary deviation from the approved regional air navigation plans; such deviations are approved, as necessary, by the President of the ICAO Council on behalf of the Council.</i>
Attachment C	Material (Guidelines) Relating to Contingency Planning Status of contingency plans; responsibility for developing; promulgating and implementing contingency plans; preparatory action (including public health emergencies); coordination, development, promulgation and application of contingency plans.
ICAO Annex 1 – Personnel Licensing – Standards and Recommended Practices	
4.3	Student Air Traffic Controller
4.4	Air Traffic Controller Licence
4.5	Air Traffic Controller Ratings
Chapter 6	Medical Provisions for Licensing
ICAO Asia/Pacific Regional ATM Contingency Plan Regional Guidance Material and APANPIRG-Agreed Performance Expectations	
Links	ICAO Asia/Pacific Regional Office eDocuments web-page (ATM Section, Contingency sub-section) Regional ATM Contingency Plan Regional ATM Contingency Plan Monitoring and Reporting Form
1.3	Hierarchy and categories of contingency plans (<i>levels and categories</i>)
5.7 and Appendix B	Basic Plan Elements (BPE).
5.8 to 5.12	Contingency plan coordination and operations functions, including establishment of <i>Central Coordinating Committee (CCC)</i> and <i>ATM Operational Contingency Group</i> functions.
5.13 and 5.14	Coordinated recovery from contingency operations.
Appendix C	Template for Level 1 and Level 2 contingency planning.
Section 7	Performance Improvement Plan (APAC regional performance expectations). <i>Elements relevant to ATM contingency planning for pandemic:</i> 7.1 to 7.8, 7.10, 7.11, 7.20 to 7.22.

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Additional Information	
Links	<u>ICAO Headquarters</u> Aviation and COVID-19 ICAO Council Aviation Recovery Task Force (CART) Safety Operational Measures Doc 10144 Handbook for CAAs on the Management of Aviation Safety Risks related to COVID-19 COVID-19 – ATM-dedicated web-page, including: – Simplified procedure for ATM CDM and Sharing of Information – Example review of potential hazards associated with ATS recovery Airport Status <u>ICAO Asia/Pacific Regional Office</u> ICAO Asia/Pacific Regional Office COVID-19 Website – ICAO Asia/Pacific Regional Office COVID-19 BCP Measures & Guidelines Information Sharing – APAC COVID-19 ATM-ATFM Status Update and Status Reporting Template – APAC COVID-19 Contingency and Recovery Planning Group IATA, CANSO, IFATCA.

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APPENDIX D: AIR TRAFFIC CONTROL (ATC) AND CONTINGENCY COORDINATION TEAM (CCT) POINTS OF CONTACT

UPDATED: 12 July 2020

Note: The Points of Contact List includes selected non-Asia/Pacific States, for contingency coordination purposes.

	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	AFGHANISTAN			
CCT	Mr. Ahmad Jawid Shahryar	Deputy DG for operations	Tel: +93700244349	shahryar@acaa.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. Doug Tyson	Advisor for Kabul ACC	Tel: +93797472285	doug.tyson123@yahoo.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 ;
	ARMENIA			
CCT	Mr. Artur Gasparyan	Director General "ARMATS" CJSC	Tel: +374 10284142 Fax: +374 10284142	arthur.gasparyan@armats.am ;
CCT	Mr. Sergey Danielyan	Chief of ATC Centre ARMATS	Tel: +37410282673 Fax: +37410282673	sergey.danielyan@armats.am ;
	AZERBAIJAN			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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			
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 ;
	BAHRAIN			
CCT	Abdallal Alquadhi	Director AIS		aalqadhi@mtt.gov.bh ;
CCT	Ahmed Bucheery	Director ATM		aalqadhi@mtt.gov.bh ;
	BANGLADESH			
CCT	Md. Mizanur Rahman	Deputy Director (ATS) ATM Division Civil Aviation Authority of Bangladesh	Tel: +880 28901431, +8801911529066	ddats@caab.gov.bd ; azad_mizan@yahoo.com ;
CCT	Mohammad Doulotuzzaman	Assistant Director Chief Instructor, Civil Aviation Training Center Civil Aviation Authority of Bangladesh	Tel: +880 1913575716	65mdzaman@gmail.com ;
ATC	Md. Masud Rana	Assistant Director Deputy Station Air Traffic Officer (SATO) Air Traffic Control Center Hazrat Shahjalal International Airport Dhaka, Bangladesh	Tel: +880 1913575853	mdmrana@yahoo.com ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
ATC	Mohammad Shamsudduha	Senior Aerodrome Officer Air Traffic Control Center Hazrat Shahjalal International Airport, Dhaka.	Tel: +880 1913575769	sdoha70@gmail.com ;
	BHUTAN			
ATC	Ms. Phuntsho Yeozer	ATC Officer ANSP Division Department of Air Transport Paro Int. Airport - Bhutan	Tel: +975 (8) 272306	Pyeozer@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 ;
	BRUNEI DARUSSALAM			
	CAMBODIA			
CCT	Ms. Tith Phoumith	Deputy Director of ANS Department State Secretariat of Civil Aviation #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 ;
ATC	Ms. Tith Phoumith	Deputy Director of ANS Department State Secretariat of Civil Aviation #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 ;
	CHINA			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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 ;
	HONG KONG, CHINA			
CCT	Mr Tommy AU-YEUNG	Chief (Operations) 1 Civil Aviation Department 2/F, Office Building, Civil Aviation Department Headquarters, 1 Tung Fai Road, Hong Kong International Airport, Lantau	Tel: +852 2910 8170 Fax: +852 2910 8170 +852 2910 0186	thlauyeung@cad.gov.hk ;
	MACAO, CHINA			
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 ;

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<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA (DPRK)			
CCT	Mr. An Kyong Hwa	Deputy Director, Air Traffic Management Bureau (ATMB), General Administration of Civil Aviation	Tel: +850 2 18111 X 8108 Fax: +850 2 3814625 Ext-4625	gaca@silibank.net.kp ;
	FIJI			
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 ;
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 ;

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<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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 ;
	FRANCE (FRENCH POLYNESIA)			
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 ;
	FRANCE (NEW CALEDONIA)			
ATC	M. Thierry HORLAIT	Head of Tontouta Air Traffic Services Head or New Caledonian ARSC	Tel: +687 35.24.01 Mobile: +687 78 57 39	
	INDIA			
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 ;
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 ;

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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 9831591366	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 ;
	INDONESIA			
CCT	Mr Tian Kusdinar	Chief of ATM Section Directorate of Air Navigation, DGCA Indonesia, MOT 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 Directorate of Operation, AirNav Indonesia 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		truedien@gmail.com ;
CCT	Mr. Rahmat Widiyana	ATFM adn 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	Junior Manager of Planning and Evaluation of Ujung Pandang ACC, Makassar Air Traffic Services Centre (MATSC)	Tel: +62 877 8008 1977	arieharsa@gmail.com ;
	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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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 ;
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 ;
	KIRIBATI			
ATC	Ms. Muraea Tiaoti	ATS Manager Airport Service Kiribati Bonriki International Airport	Tel: +686 752 28092 Fax: +686 28280	mtiaoti@gmail.com ;
	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 ;

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CCT	Mr. Ulukbek Rakhamanov	Director General	Tel: +996-312393559 Fax: +996-312-393 093	kan_atm@kan.kg ;
	LAO PDR			
ATC	Mr. Amdounla Salinphone	Director of ATSD 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 512006 Fax: +856 21 512216 Mobile: +856 20 55668240	asalinphone@gmail.com ;
ATC	Mr. Thanongdeth Nalisak	Deputy Director of ANSD Air Navigation Standards Division (ANSD) Department of Civil Aviation of Lao PDR (DCAL) 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 ;
	MALAYSIA			
CCT	Mr. Rohdizad bin Ariffin	Dep Director Kuala Lumpur Area Control Centre Blok B, Air Traffic Control Complex Sultan Abdul Aziz Shah Airport 47200 Subang, Selangor	Tel: +60 3 7846 5233 Fax: +60 3 7845 6590 Mobile: +6013 6190716	rohdizad@caam.gov.my ;
CCT	Mr. Chars Wong	Deputy Director Kota Kinabalu Area Control Centre Jalan Kepayan 88618 Kota Kinabalu, Sabah	Tel: +60 16 817 6983 Fax: +60 88 219 198	chars@caam.gov.my ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
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CCT	Md. Nastain Bin Mahazur	Senior Asst Director Civil Aviation Authority of Malaysia 4 th Floor, Block Podium , No 27 Pesiaran Perdana 62618 Putrajaya, Malaysia	Tel: +603 88714272 Fax: +603 88810530 Mobile: +6017 2187531	mdnastain@caam.gov.my ;
CCT	Mr. Muddastsir Bin Mashor	Senior Asst Director Civil Aviation Authority of Malaysia 4 th Floor, Block Podium , No 27 Pesiaran Perdana 62618 Putrajaya, Malaysia	Tel: +603 88714273 Fax: +603 88810530 Mobile: +60122334550	muddatsir@caam.gov.my ;
ATC	Mr. Rohdizad bin Ariffin	Dep Director Kuala Lumpur Area Control Centre Blok B, Air Traffic Control Complex Sultan Abdul Aziz Shah Airport 47200 Subang, Selangor	Tel: +60 3 7846 5233 Mobile: +6013 6190716 Fax: +60 3 7845 6590	rohdizad@caam.gov.my ;
ATC	Mr. Chars Wong	Deputy Director Kota Kinabalu Area Control Centre Jalan Kepayan 88618 Kota Kinabalu, Sabah	Tel: +60 16 817 6983 Fax: +60 88 219 198	chars@caam.gov.my ;
ATC	Mr. Wong Ding Hook	Deputy Director Kuching Area Control Centre P.O. Box 1359 93728 Kuching, Sarawak	Tel: +6019 818 5932 Fax: 082-454523	dhwong@caam.gov.my ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
	MALDIVES			
ATC		Watch Manager Male Area Control Centre, Velana International Airport	Tel: +960 332 2071 Mobile: +960 7977802 (24 hrs)	sup_matcc@macl.aero ;
	MARSHALL ISLANDS			
	TO BE PROVIDED			
	MICRONESIA			
	TO BE PROVIDED			
	MONGOLIA			
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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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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	MYANMAR			
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 ;
	NAURU			
	TO BE PROVIDED			
	NEPAL			
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 ;
	NEW ZEALAND			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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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			
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 ;
	PALAU			
	TO BE PROVIDED			
	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	p Irvine@pngairservices.com.pg ;
ATC	Mr. Gabriel Salayau	Executive Manager Aviation Facilities Civil Aviation Safety Authority	Tel: +675 3027551	gsalayau@casapng.gov.pg ;
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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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ATC	Mr. Ferdinand A. Tienzo	Chief, Enroute Division Air Traffic Control and Management Department Air Traffic Service, Civil Aviation Authority of the Philippines	Tel: +632 944 2215	fatienzo@caap.gov.ph ;
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 ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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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 ;
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 ;
	REPUBLIC OF KOREA			
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 ;
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 ;
	QATAR			
CCT	Qatar FLS			aalhammadi@caa.gov.qa ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Qatar MFP			ahmed@caa.gov.qa ; 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			
	TO BE PROVIDED			
	SINGAPORE			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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ATC	Mr. Harrison Lim	Chief (Area) Singapore Air Traffic Control Centre 60 Biggin Hill Road Singapore 509950	Tel: +65 6422 7048 Fax: +65 6545 6252	harrison_lim@caas.gov.sg ;
ATC	Mr. Yeo Khung Hui			YEO_Khung_Hui@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;
	SRI LANKA			
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 ;
	TAJIKISTAN			

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
CCT	Mr. Alisher A. Shambiev,	First Deputy of Director General, SUE “Tajikairnavigation”	Tel: +992 48 701-17-20	a.shambiev@airnav.tj ;
	THAILAND			
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, Sathorn, Bangkok 10120	Tel: +66 2 287 8808 Mobile: +66 85 481 1646	suppanat.ha@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 ;
	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 ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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	UAE			
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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			
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 ;

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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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CCT	Mr. Robert Roxbrough			robert.roxbrough@faa.gov ;
	VANUATU			
	TO BE PROVIDED			
	VIET NAM			
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	CANSO			

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<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
ATC	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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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
<i>ATC= Air Traffic Control, CCT= Contingency Coordination Team</i>				
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	NAME	TITLE/ORGANIZATION	TEL/FAX NUMBER	E-MAIL
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	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 ;

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