

**ATTACHMENT 1** to the APANPIRG/33 Report



**ICAO**

*International Civil Aviation Organization*

**Thirty-Third Meeting of the Asia/Pacific Air Navigation  
Planning and Implementation Regional Group  
(APANPIRG/33)**

*Bali, Indonesia, Hybrid Meeting, 22 to 24 November 2022*

**LIST OF PARTICIPANTS**

NAME		TITLE/ORGANIZATION	E-MAIL
<b>1.</b>	<b>AUSTRALIA (2)</b>		
1.	Mr. Adrian Slootjes	Acting Branch Manager, Air Navigation, Airspace and Aerodromes Branch, National Operations and Standards Div., Civil Aviation Safety Authority	<a href="mailto:Adrian.Slootjes@casa.gov.au">Adrian.Slootjes@casa.gov.au</a> ;
2.	Ms. Robyn L. Leece	Service Standards Head Airservices Australia	<a href="mailto:robyn.leece@airservicesaustralia.com">robyn.leece@airservicesaustralia.com</a> ;
<b>2.</b>	<b>BANGLADESH (7)</b>		
3.	Mr. Md. Masud Rana	Deputy Director - Air Traffic Management Civil Aviation Authority of Bangladesh	<a href="mailto:masud.caab@gmail.com">masud.caab@gmail.com</a> ; <a href="mailto:ddats@caab.gov.bd">ddats@caab.gov.bd</a> ;
4.	Ms. Sabera Rahman	Deputy Director - Air Traffic Management Civil Aviation Authority of Bangladesh	<a href="mailto:mitasr@gmail.com">mitasr@gmail.com</a> ; <a href="mailto:sabera_atm@caab.gov.bd">sabera_atm@caab.gov.bd</a> ;
5.	Mr. Abul Kalam Md Saiduzzaman	Deputy Director (ATM) Civil Aviation Authority of Bangladesh	<a href="mailto:akmsaiduz@gmail.com">akmsaiduz@gmail.com</a> ; <a href="mailto:mdsaiduzzamana@yahoo.com">mdsaiduzzamana@yahoo.com</a> ;
6.	Mr. Mahmud Akhter Hossain	Assistant Director (ATM) Civil Aviation Authority of Bangladesh	<a href="mailto:makhtercaab@gmail.com">makhtercaab@gmail.com</a> ;
7.	Mr. Md. Shamsudduha	Assistant Director (Investigation) Civil Aviation Authority of Bangladesh	<a href="mailto:ms.duha@caab.gov.bd">ms.duha@caab.gov.bd</a> ; <a href="mailto:sdoha70@gmail.com">sdoha70@gmail.com</a> ;
8.	Mr. Md. Shakhawat Hossain	Assistant Director (Instrument Procedure Design) Civil Aviation Authority of Bangladesh	<a href="mailto:mshossain25ju@gmail.com">mshossain25ju@gmail.com</a> ;
9.	Mr. Md. Readad Hossain	Member (Air Traffic Management) Civil Aviation Authority of Bangladesh	<a href="mailto:matm@caab.gov.bd">matm@caab.gov.bd</a> ;
<b>3.</b>	<b>BHUTAN (1)</b>		
10.	Mr. Karma Gayley	Head of ANS Bhutan Civil Aviation Authority	<a href="mailto:kgayley@bcaa.gov.bt">kgayley@bcaa.gov.bt</a> ;
<b>4.</b>	<b>CAMBODIA (7)</b>		
11.	Mr. Tan Sophondarith	Director of Security/Safety Management and Quality Assurance Department State Secretariat of Civil Aviation	<a href="mailto:sophondarith-tan@sca.gov.kh">sophondarith-tan@sca.gov.kh</a> ; <a href="mailto:tansophondarith@gmail.com">tansophondarith@gmail.com</a> ;
12.	Mr. Cheav Vin	Director of Airport Standard and Safety Department, Secretariat of Civil Aviation	<a href="mailto:vincheav@gmail.com">vincheav@gmail.com</a> ;
13.	Mr. Eng Samreth	Deputy Director of Airport Standard and Safety Department, Secretariat of Civil Aviation	<a href="mailto:engsamreth@gmail.com">engsamreth@gmail.com</a> ;
14.	Ms. Thith Phoumith	Deputy Director of ANS State Secretariat of Civil Aviation	<a href="mailto:tphoumith9999@gmail.com">tphoumith9999@gmail.com</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
15.	Mr. Prak Outhdam	Chief of Bureau State Secretariat of Civil Aviation	<a href="mailto:prak_outhdam@yahoo.com">prak_outhdam@yahoo.com</a> ;
16.	Mr. Sok Sithpisey	Chief of Airport Standard Office State Secretariat of Civil Aviation	<a href="mailto:soksithpisey@gmail.com">soksithpisey@gmail.com</a> ;
17.	Mr. Khorn Vannak	ATM Manager Cambodia Air Traffic Service (CATS)	<a href="mailto:vannakk@cats.com.kh">vannakk@cats.com.kh</a> ;
<b>5.</b>	<b>CHINA (18)</b>		
18.	Mr. Xiangyang CHEN	Deputy Director General of Air Traffic Regulation Office, Civil Aviation Administration of China	<a href="mailto:xy_chen@caac.gov.cn">xy_chen@caac.gov.cn</a> ;
19.	Mr. Li LI	Air Traffic Regulation Office, CAAC	<a href="mailto:lili1@caac.gov.cn">lili1@caac.gov.cn</a> ;
20.	Ms. Jie PAN	Air Traffic Regulation Office, CAAC	<a href="mailto:panjie@caac.gov.cn">panjie@caac.gov.cn</a> ;
21.	Mr. Bihe WANG	Flight Standard department, CAAC	<a href="mailto:bh_wang@caac.gov.cn">bh_wang@caac.gov.cn</a> ;
22.	Ms. Qing LYU	Airport department, CAAC	<a href="mailto:lvqing@caac.gov.cn">lvqing@caac.gov.cn</a> ;
23.	Mr. Jingcheng GUO	Airport department, CAAC	<a href="mailto:guojingcheng@caac.gov.cn">guojingcheng@caac.gov.cn</a> ;
24.	Mr. Kun TU	Airport department, CAAC	<a href="mailto:tukun@caac.gov.cn">tukun@caac.gov.cn</a> ;
25.	Ms. Yali YU	Airport department, CAAC	<a href="mailto:yl_yu@caac.gov.cn">yl_yu@caac.gov.cn</a> ;
26.	Ms. Rui WANG	Air Traffic management Bureau, CAAC	<a href="mailto:wangrui@atmb.net.cn">wangrui@atmb.net.cn</a> ;
27.	Ms. Xiaoying ZHANG	Air Traffic management Bureau, CAAC	<a href="mailto:zhangxiaoying@atmb.net.cn">zhangxiaoying@atmb.net.cn</a> ;
28.	Ms. Liming HE	Air Traffic management Bureau, CAAC	<a href="mailto:heliming@atmb.net.cn">heliming@atmb.net.cn</a> ;
29.	Mr. Fangen HUANG	Air Traffic management Bureau, CAAC	<a href="mailto:huangfangen@atmb.net.cn">huangfangen@atmb.net.cn</a> ;
30.	Mr. Jun WANG	Air Traffic management Bureau, CAAC	<a href="mailto:wangjun@atmb.net.cn">wangjun@atmb.net.cn</a> ;
31.	Ms. Jing CAI	Air Traffic management Bureau, CAAC	<a href="mailto:caijing@atmb.net.cn">caijing@atmb.net.cn</a> ;
32.	Ms. Juan ZOU	Air Traffic management Bureau, CAAC	<a href="mailto:zoujuan@atmb.net.cn">zoujuan@atmb.net.cn</a> ;
33.	Ms. Ying ZHANG	Air Traffic management Bureau, CAAC	<a href="mailto:zhangying@atmb.net.cn">zhangying@atmb.net.cn</a> ;
34.	Mr. Baiweng ZHANG	Air Traffic management Bureau, CAAC	<a href="mailto:zhangbaiweng@sina.com">zhangbaiweng@sina.com</a> ;
35.	Mr. Chenhui ZHU	Air Traffic management Bureau, CAAC	<a href="mailto:zhuchenhui@atmb.net.cn">zhuchenhui@atmb.net.cn</a> ;
<b>6.</b>	<b>HONG KONG CHINA (12)</b>		
36.	Mr. Victor LIU	Director-General of Civil Aviation Civil Aviation Department	<a href="mailto:vcyliu@cad.gov.hk">vcyliu@cad.gov.hk</a> ; <a href="mailto:hkcad_icao@cad.gov.hk">hkcad_icao@cad.gov.hk</a> ;
37.	Mr. Richard WU	Deputy Director-General of Civil Aviation, Civil Aviation Department	<a href="mailto:rckwu@cad.gov.hk">rckwu@cad.gov.hk</a> ;
38.	Mr. HUI Man Ho	Assistant Director-General of Civil Aviation (Air Traffic Engineering Services), CAD	<a href="mailto:mhhui@cad.gov.hk">mhhui@cad.gov.hk</a> ;
39.	Mr. AU YEUNG Hung Leung	Acting Assistant Director-General (Air Traffic Management Division) Civil Aviation Department	<a href="mailto:thlauyeung@cad.gov.hk">thlauyeung@cad.gov.hk</a> ;
40.	Mr. Cheng Po Keung	Chief Air Traffic Control Officer Civil Aviation Department	<a href="mailto:gpkcheng@cad.gov.hk">gpkcheng@cad.gov.hk</a> ;
41.	Ms. WONG Shan Ngar Sarah	Senior Evaluation Officer, Civil Aviation Department	<a href="mailto:ssnwong@cad.gov.hk">ssnwong@cad.gov.hk</a> ;
42.	Ms. Yip Miu Ling	Senior Operations Officer Civil Aviation Department	<a href="mailto:rmlyip@cad.gov.hk">rmlyip@cad.gov.hk</a> ;
43.	Mr. Steven Ka Ho Pang	Senior Operations Officer (AVSEC Standards) Civil Aviation Department	<a href="mailto:kh pang@cad.gov.hk">kh pang@cad.gov.hk</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
44.	Ms. CHAN Wei Shuen Cheryl	Evaluation Officer, Civil Aviation Department	<a href="mailto:cwschan@cad.gov.hk">cwschan@cad.gov.hk</a> ;
45.	Mr. Arthur LAU	Electronics Engineer, Civil Aviation Department	<a href="mailto:akhlau@cad.gov.hk">akhlau@cad.gov.hk</a> ;
46.	Mr. CHAN Pak Wai	Assistant Director, Hong Kong Observatory	<a href="mailto:pwchan@hko.gov.hk">pwchan@hko.gov.hk</a> ;
47.	Mr. KOK Mang-hin, Marco	Acting Senior Scientific Officer, Hong Kong Observatory	<a href="mailto:mhkok@hko.gov.hk">mhkok@hko.gov.hk</a>
<b>7. MACAO CHINA (3)</b>			
48.	Mr. Tat Ming LAM	Director of Airport Infrastructure & Air Navigation, Civil Aviation Authority	<a href="mailto:taftlam@aacm.gov.mo">taftlam@aacm.gov.mo</a> ;
49.	Mr. Veng Tong LO	Senior Safety Officer, Civil Aviation Authority of Macao, Macao, China	<a href="mailto:freemanlo@aacm.gov.mo">freemanlo@aacm.gov.mo</a> ;
50.	Mr. Kuan Hou CHIU	Safety Officer, Civil Aviation Authority of Macao, Macao China	<a href="mailto:bryanchiu@aacm.gov.mo">bryanchiu@aacm.gov.mo</a> ;
<b>8. DPRK (4)</b>			
51.	Mr. AN Gyong Hwa	Director of Air Traffic Management Bureau, National Aviation Administration (NAA) General Administration of Civil Aviation (GACA)	<a href="mailto:gaca@silibank.net.kp">gaca@silibank.net.kp</a> ;
52.	Mr. KANG Chang Min	Director of Air Navigation Service Department, National Aviation Administration	<a href="mailto:gaca@silibank.net.kp">gaca@silibank.net.kp</a> ;
53.	Mr. KIM Jong Chol	Deputy Director of Air Traffic Management Bureau, National Aviation Administration	<a href="mailto:gaca@silibank.net.kp">gaca@silibank.net.kp</a> ;
54.	Mr. HO Won Il	Chief of Air Traffic Service Department, Air Traffic Management Bureau, National Aviation Administration	<a href="mailto:gaca@silibank.net.kp">gaca@silibank.net.kp</a> ;
<b>9. FIJI (3)</b>			
55.	Mr. Maibulu Laliqavoka	Senior Aerodrome Inspector Civil Aviation Authority of Fiji	<a href="mailto:maibulu.laliqavoka@caaf.org.fj">maibulu.laliqavoka@caaf.org.fj</a> ;
56.	Mr. Amit Singh	General Manager ATM & Operations Fiji Airports	<a href="mailto:amits@fijiairports.com.fj">amits@fijiairports.com.fj</a> ;
57.	Ms. Theresa Levestam	Controller Ground Safety Civil Aviation Authority of Fiji	<a href="mailto:cgs@caaf.org.fj">cgs@caaf.org.fj</a> ; <a href="mailto:ce@caaf.org.fj">ce@caaf.org.fj</a> ;
<b>10. FRENCH POLYNESIA (1)</b>			
58.	Mr. Marc Houalla	Head of Civil Aviation Authority Civil Aviation Authority of French Polynesia	<a href="mailto:Marc.houalla@aviation-civile.gouv.fr">Marc.houalla@aviation-civile.gouv.fr</a> ; <a href="mailto:houalla_marc@hotmail.com">houalla_marc@hotmail.com</a> ;
<b>11. INDIA (13)</b>			
59.	Mr. Dinesh Chand Sharma	Joint Director General Directorate General of Civil Aviation	<a href="mailto:dcsharma.dgca@nic.in">dcsharma.dgca@nic.in</a> ;
60.	Mr. Ravinder Singh Jamwal	Director of Operations, AS & ANSS Directorate General of Civil Aviation	<a href="mailto:jamwal.dgca@nic.in">jamwal.dgca@nic.in</a> ;
61.	Mr. Suresh Muthiah	Member (Air Navigation Services) Airports Authority of India	<a href="mailto:memberans@AAI.AERO">memberans@AAI.AERO</a> ;
62.	Mr. Anil Kumar Meena	Executive Director (ATM) Airports Authority of India	<a href="mailto:edatm@aai.aero">edatm@aai.aero</a> ;
63.	Mr. Barun Kumar Sarkar	Executive Director (ATM) Airports Authority of India	<a href="mailto:edatfm@aai.aero">edatfm@aai.aero</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
64.	Mr. Krishnan Vasudevan	Executive Director (ATM) Airports Authority of India	<a href="mailto:edasm@aai.aero">edasm@aai.aero</a> ;
65.	Mr. Tony C T	General Manager CNS Airports Authority of India	<a href="mailto:tctharayil@aai.aero">tctharayil@aai.aero</a> ;
66.	Mr. J B Singh	General Manager CNS Airports Authority of India	<a href="mailto:gmcnsqa@aai.aero">gmcnsqa@aai.aero</a> ;
67.	Mr. Asit Kumar Sinha	Joint General Manager (ASM) Airports Authority of India	<a href="mailto:asitsinha@aai.aero">asitsinha@aai.aero</a> ;
68.	Mr. B K Dhamu	Joint General Manager (CNS) Airports Authority of India	<a href="mailto:bkdhamu@aai.aero">bkdhamu@aai.aero</a> ;
69.	Mr. Krishnan Udayabhau Rao	Deputy General Manager (ATM) Airports Authority of India	<a href="mailto:kurao@aai.aero">kurao@aai.aero</a> ;
70.	Mr. Sushil Chandra Verma	Deputy General Manager (OPS) Airports Authority of India	<a href="mailto:sushilv@aai.aero">sushilv@aai.aero</a> ;
71.	Mr. Munish Kumar Mangla	Assistant General Manager (CNS) Airports Authority of India	<a href="mailto:munishm@aai.aero">munishm@aai.aero</a> ;
<b>12. INDONESIA (53)</b>			
72.	Capt. Sigit Hani Hadiyanto	Director of Air Navigation Directorate General of Civil Aviation	<a href="mailto:sigit.hadiyanto.74@gmail.com">sigit.hadiyanto.74@gmail.com</a> ; <a href="mailto:sigit_hani@dephub.go.id">sigit_hani@dephub.go.id</a> ;
73.	Mr. Okta Kurnia Putra	Deputy Director of Air Navigation Standardization and Procedure, DGCA	<a href="mailto:oktakurniaputra1@gmail.com">oktakurniaputra1@gmail.com</a> ;
74.	Mr. Tian Kusdinar	Acting Deputy Director of Air Navigation Operation, DGCA	<a href="mailto:tian231182@gmail.com">tian231182@gmail.com</a> ;
75.	Mr. Wahyudi Nugroho	Chief of Air Navigation Standardization Section Directorate General of Civil Aviation	<a href="mailto:ditnavpen_ssnp@yahoo.com">ditnavpen_ssnp@yahoo.com</a> ;
76.	Ms. Theresia Damayanti	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:dama_th07@yahoo.com">dama_th07@yahoo.com</a> ;
77.	Ms. Emi Astuti	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:emi_atc6@yahoo.com">emi_atc6@yahoo.com</a> ;
78.	Ms. Suyanti Aviani	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:aviakennia@gmail.com">aviakennia@gmail.com</a> ;
79.	Ms. Ika Septiana Sari	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:ika@aviasi.org">ika@aviasi.org</a> ; <a href="mailto:ika.saridnp@gmail.com">ika.saridnp@gmail.com</a> ;
80.	Ms. Nurdini Rospitha Tambunan	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:truedien@gmail.com">truedien@gmail.com</a> ;
81.	Mr. Hendra Ahmad Firdaus	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:hendra_af@yahoo.com">hendra_af@yahoo.com</a> ;
82.	Mr. Yuli Asnanto	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:to_yuli_abu@yahoo.com">to_yuli_abu@yahoo.com</a> ;
83.	Mr. Ferdinan Nurdin	Head of Sub Directorate of Air Navigation Oversight and Safety Data, Directorate General of Civil Aviation	<a href="mailto:atc_f3rd1@yahoo.com">atc_f3rd1@yahoo.com</a> ;
84.	Mr. Dian Wahyudi	Deputy Director of Air Navigation Directorate Directorate General of Civil Aviation	<a href="mailto:dianwhy2014@gmail.com">dianwhy2014@gmail.com</a> ;
85.	Mr. Arian Nurahman	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:arian.nurahman@gmail.com">arian.nurahman@gmail.com</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
86.	Mr. Abdul Aziz	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:azizsabdul@gmail.com">azizsabdul@gmail.com</a> ;
87.	Mr. Maruli Tua Edison Saragih	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:edisonsaragih.es@gmail.com">edisonsaragih.es@gmail.com</a> ;
88.	Ms. Sukmani Fetti Ramadian	Director of Air Navigation Directorate General of Civil Aviation	<a href="mailto:fetti.ramadian@gmail.com">fetti.ramadian@gmail.com</a> ;
89.	Ms. Rosleli Eva Susanti Saragih	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:roslelisaragih@yahoo.com">roslelisaragih@yahoo.com</a> ;
90.	Ms. Dina Yunita	Chief of AIS, MET and SAR Section Directorate General of Civil Aviation	<a href="mailto:dn.yunita22@gmail.com">dn.yunita22@gmail.com</a> ;
91.	Ms. Dewi Larasati Budiono	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:dewilarasatibudiono@gmail.com">dewilarasatibudiono@gmail.com</a> ;
92.	Ms. Yurika Oktorina Oktorina	Air Navigation Inspector Directorate General of Civil Aviation	<a href="mailto:yurika_stpi@yahoo.com">yurika_stpi@yahoo.com</a> ;
93.	Mr. Bambang Wijayanto	Head of Operational Management of Center for Aeronautical Meteorology, The Agency for Meteorology, Climatology, and Geophysics (BMKG)	<a href="mailto:bbwijayanto@gmail.com">bbwijayanto@gmail.com</a> ;
94.	Mr. Fani Setyawan	Officer of the Center for Aeronautical Meteorology, BMKG Indonesia	<a href="mailto:fani.setyawan@bmkg.go.id">fani.setyawan@bmkg.go.id</a> ;
95.	Ms. Ali Wardhana	Officer of the Center for Aeronautical Meteorology, BMKG Indonesia	<a href="mailto:ali.wardhana@bmkg.go.id">ali.wardhana@bmkg.go.id</a> ;
96.	Ms. Resa Pratikasari	Officer of the Center for Aeronautical Meteorology, BMKG Indonesia	<a href="mailto:resa.pratikasari@bmkg.go.id">resa.pratikasari@bmkg.go.id</a> ;
97.	Mr. Dony P. Siswantoro	NCMC	<a href="mailto:dony_prasetiyo@kemenhub.go.id">dony_prasetiyo@kemenhub.go.id</a> ; <a href="mailto:dony_siswantoro@yahoo.com">dony_siswantoro@yahoo.com</a> ;
98.	Mrs. Polana B. Pramesti	Director of Air Navigation Airnav Indonesia	<a href="mailto:polana.makawi@gmail.com">polana.makawi@gmail.com</a> ;
99.	Mr. Mokhamad Khatim	Director of Operation, Airnav Indonesia	<a href="mailto:mokhamad.khatim@gmail.com">mokhamad.khatim@gmail.com</a> ;
100.	Mr. Bambang Rianto	Director of Safety, Security and Standardization AirNav Indonesia	<a href="mailto:brats111@yahoo.co.id">brats111@yahoo.co.id</a> ;
101.	Mr. Setio Anggoro	Head Division of Planning & Development Air Navigation Services, Airnav Indonesia	<a href="mailto:setio@airnavindonesia.co.id">setio@airnavindonesia.co.id</a> ;
102.	Mr. Wahyu Tirtaji Setyo Priyanto	VP Aeronautical Communication Operation Services, Airnav Indonesia	<a href="mailto:wahyutirtaji@yahoo.com">wahyutirtaji@yahoo.com</a> ;
103.	Mr. Roy Johanis	Senior Vice President of Air Navigation Service Data And Evaluation, Airnav Indonesia	<a href="mailto:roy.johanis@mavindonesia.co.id">roy.johanis@mavindonesia.co.id</a> ;
104.	Mr. Rino Laharto	Manager of Airspace Development Airnav Indonesia	<a href="mailto:rinolaharto.atc@gmail.com">rinolaharto.atc@gmail.com</a> ;
105.	Mrs. Lisnawati	Junior Manager of Air Traffic Service Development, Airnav Indonesia	<a href="mailto:lisna.mllp@gmail.com">lisna.mllp@gmail.com</a> ;
106.	Mr. Yuliawan R. Alit	Safety Information and Compliance Manager Airnav Indonesia	<a href="mailto:alit.gpa@gmail.com">alit.gpa@gmail.com</a> ;
107.	Mr. Rachmat Hidayat	Manager Facility Readiness of Surveillance and ATC Automation, Division of Engineering Facility Readiness, Airnav Indonesia	<a href="mailto:rachmat.hidayat1@airnavindonesia.co.id">rachmat.hidayat1@airnavindonesia.co.id</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
108.	Mr. Mohamad Ali Said	Junior Manager Surveillance and ATC Automation, Division of Technical Design & Engineering, Airnav Indonesia	<a href="mailto:mohamad.ali@airnavindonesia.co.id">mohamad.ali@airnavindonesia.co.id</a> ;
109.	Mr. Zainal Arifin	Head Division of Information Technology Airnav Indonesia	<a href="mailto:cokycok@gmail.com">cokycok@gmail.com</a> ;
110.	Mr. Said Fauzul	Network dan Supporting Facilities Manager Airnav Indonesia	<a href="mailto:said.fauzul@airnavindonesia.co.id">said.fauzul@airnavindonesia.co.id</a> ;
111.	Mr. Dedy Iskandar	Jr. Manager of Automation Facility Readiness, Division of Engineering Facility Readiness Airnav Indonesia	<a href="mailto:dedy.nav7@gmail.com">dedy.nav7@gmail.com</a> ;
112.	Mr. Arifianto	International Relations – SSP Data Analyst Ministry of Transportation, DGCA	<a href="mailto:ari.kemenhub@gmail.com">ari.kemenhub@gmail.com</a> ;
113.	Mr. Mokhammad Khusnu	Head of International Cooperation Ministry of Transportation, DGCA	<a href="mailto:khusnu_dgca@yahoo.com">khusnu_dgca@yahoo.com</a> ;
114.	Ms. Niputu A. Caesariyani	International Cooperation Officer Ministry of Transportation, DGCA	<a href="mailto:niputu.amalia@gmail.com">niputu.amalia@gmail.com</a> ;
115.	Ms. Aryani Satyamurni	Head of International Cooperation Sub Division, Ministry of Transportation, DGCA	<a href="mailto:a.satyamurni.as@gmail.com">a.satyamurni.as@gmail.com</a>
116.	Mr. Herry A. Arief	Coordinator Sub Standardization – SSP	<a href="mailto:herry_arief@yahoo.com">herry_arief@yahoo.com</a> ;
117.	Ms. Gradithasari	International Cooperation Officer Ministry of Transportation, DGCA	<a href="mailto:graditha@gmail.com">graditha@gmail.com</a> ;
118.	Mr. I Kadek Yuli Sastrawan	Deputy Director of Airport Standardization Directorate General of Civil Aviation	<a href="mailto:kadeksastrawan98@gmail.com">kadeksastrawan98@gmail.com</a> ;
119.	Mr. Al Buston	Aerodrome Inspector Directorate General of Civil Aviation	<a href="mailto:al.buston73@gmail.com">al.buston73@gmail.com</a> ;
120.	Mr. Ade Trisetyo	Aerodrome Inspector Directorate General of Civil Aviation	<a href="mailto:adeth_rossi@yahoo.com">adeth_rossi@yahoo.com</a> ;
121.	Mr. Nugroho Wicaksono	Aerodrome Inspector Directorate General of Civil Aviation	<a href="mailto:nugie.dbu@gmail.com">nugie.dbu@gmail.com</a> ;
122.	Mr. Ahmad Nurdin Aulia	Technical Director Airnav Indonesia	<a href="mailto:auliahmad03@gmail.com">auliahmad03@gmail.com</a> ;
123.	Mr. Rachmat Ali	Engineering Manager Airnav Indonesia	<a href="mailto:rachmataly@yahoo.com">rachmataly@yahoo.com</a> ;
124.	Mr. Irvan	Aeronautical Telecommunication Technician Airnav Indonesia	<a href="mailto:Tar.irvan@yahoo.co.id">Tar.irvan@yahoo.co.id</a> ;
<b>13.</b>	<b>JAPAN (7)</b>		
125.	Mr. Takayuki Harada	Director, Air Traffic International Affairs Office, Japan Civil Aviation Bureau	<a href="mailto:harada-t2en@mlit.go.jp">harada-t2en@mlit.go.jp</a> ;
126.	Ms. Hanae Noda	Special Assistant to the Director Air Traffic International Affairs Office Japan Civil Aviation Bureau	<a href="mailto:noda-h46nk@mlit.go.jp">noda-h46nk@mlit.go.jp</a> ;
127.	Mr. Masato Nomiya	Special Assistant to the Director, Air Traffic International Affairs Office, JCAB	<a href="mailto:nomiya-m97ib@mlit.go.jp">nomiya-m97ib@mlit.go.jp</a> ;
128.	Ms. Kyoko Sato	Special Assistant to the Director Air Traffic International Affairs Office, JCAB	<a href="mailto:satoh-k05zb@mlit.go.jp">satoh-k05zb@mlit.go.jp</a> ;
129.	Mr. Yoshito Tanaka	Aviation Safety Management Promotion Officer, Japan Civil Aviation Bureau	<a href="mailto:tanaka-y10qv@mlit.go.jp">tanaka-y10qv@mlit.go.jp</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
130.	Mr. Koji Kaminoshita	Chief, Japan Civil Aviation Bureau	<a href="mailto:kaminoshita-k01sc@mlit.go.jp">kaminoshita-k01sc@mlit.go.jp</a> ;
131.	Ms. Erika Hayami	Senior Coordinator for International Aeronautical Meteorology, Japan Meteorological Agency	<a href="mailto:e-hayami@met.kishou.go.jp">e-hayami@met.kishou.go.jp</a> ;
<b>14. KIRIBATI (1)</b>			
132.	Mr. Tiamwa Teaiwa	Air Navigation and Aerodrome Inspector Civil Aviation Authority of Kiribati	<a href="mailto:ans.ai@mict.gov.ki">ans.ai@mict.gov.ki</a> ;
<b>15. LAO PDR (5)</b>			
133.	Mr. Manasavanh Kounlath	Deputy General Director of LANS Department of Civil Aviation of Laos	<a href="mailto:manasavanh@gmail.com">manasavanh@gmail.com</a> ;
134.	Mr. Thanongdeth Nalisa	Deputy Director of Air Navigation Standards Division, Department of Civil Aviation of Laos	<a href="mailto:thanongdeth@dcal.gov.la">thanongdeth@dcal.gov.la</a> ;
135.	Mr. Moukphamay Thammavongsa	CNS Officer of Air Navigation Standard Division, Department of Civil Aviation of Laos	<a href="mailto:moukth@msn.com">moukth@msn.com</a> ;
136.	Mr. Xaygnasith Xouymanivong	Chief of Vientiane Area Control Center Department of Civil Aviation of Laos	<a href="mailto:xaygnasith@gmail.com">xaygnasith@gmail.com</a> ;
137.	Mr. Boundone Ratanalangsy	Chief of Electricity Department of Civil Aviation of Laos	<a href="mailto:Boundone777@gmail.com">Boundone777@gmail.com</a> ;
<b>16. MALAYSIA (2)</b>			
138.	Mr. Zainul Abidin Mazlan	Deputy Chief Executive Officer (Operation) Civil Aviation Authority Malaysia	<a href="mailto:luniaz@caam.gov.my">luniaz@caam.gov.my</a> ;
139.	Mr. Mohd Amri Mohd Akib	Assistant Director Civil Aviation Authority Malaysia	<a href="mailto:mohdamri@caam.gov.my">mohdamri@caam.gov.my</a> ;
<b>17. MALDIVES (3)</b>			
140.	Ms. Fathimath Ramiza	Director, Air Navigation & Aerodromes Maldives Civil Aviation Authority	<a href="mailto:ramiza@caa.gov.mv">ramiza@caa.gov.mv</a> ; <a href="mailto:civav@caa.gov.mv">civav@caa.gov.mv</a> ;
141.	Mr. Ibrahim Thoha	Deputy Managing Director Maldives Airports Company Limited Velena International Airport	<a href="mailto:thoha@macl.aero">thoha@macl.aero</a> ;
142.	Mr. Ibrahim Hameed	General Manager, ATS Maldives Airports Company Limited Velena International Airport	<a href="mailto:i.hameed@macl.aero">i.hameed@macl.aero</a> ; <a href="mailto:i.hamyd@gmail.com">i.hamyd@gmail.com</a> ;
<b>18. MONGOLIA (11)</b>			
143.	Mr. Odgerel Chagnaadorj	Director of Air Navigation and Airports Policy Regulation, Civil Aviation Authority	<a href="mailto:odgerel.ch@mcaa.gov.mn">odgerel.ch@mcaa.gov.mn</a> ;
144.	Mr. Odgerel Davaadorj	Director of Project and Program Coordination Division, Civil Aviation Authority of Mongolia	<a href="mailto:Odgerel@mcaa.gov.mn">Odgerel@mcaa.gov.mn</a> ;
145.	Mr. Batsaikhan Nyamsambuu	Director of National Civil Aviation Center Civil Aviation Authority of Mongolia	<a href="mailto:n_Batsaikhan@mcaa.gov.mn">n_Batsaikhan@mcaa.gov.mn</a> ;
146.	Mr. Odkhuu Khalzan	Air Traffic Management Officer Civil Aviation Authority	<a href="mailto:odkhuu.kh@mcaa.gov.mn">odkhuu.kh@mcaa.gov.mn</a> ;
147.	Mr. Enkhmunkh E	Officer of Air Navigation and Airports Policy Regulation, Civil Aviation Authority	<a href="mailto:enkhmunkh.e@mcaa.gov.mn">enkhmunkh.e@mcaa.gov.mn</a> ;
148.	Mr. Turbayr E	Director of ANS Dept., Civil Aviation Authority, National Civil Aviation Center	<a href="mailto:turbayar.e@mcaa.gov.mn">turbayar.e@mcaa.gov.mn</a> ;
149.	Mr. Urtnasan D	Senior Officer of ANS Dept., Civil Aviation Authority, National Civil Aviation Center	<a href="mailto:d_urtnasan@mcaa.gov.mn">d_urtnasan@mcaa.gov.mn</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
150.	Mr. Gantugs P	Manager of ANS Dept., Civil Aviation Authority, National Civil Aviation Center	<a href="mailto:gantugs_pn@mcaa.gov.mn">gantugs_pn@mcaa.gov.mn</a> ;
151.	Mr. Ider N	Manager of ANS Dept., Civil Aviation Authority, National Civil Aviation Center	<a href="mailto:ider.n@mcaa.gov.mn">ider.n@mcaa.gov.mn</a> ;
152.	Mrs. Batbulgan G	Director of ATS Division, Civil Aviation Authority, National Civil Aviation Center	<a href="mailto:batbulgan.g@mcaa.gov.mn">batbulgan.g@mcaa.gov.mn</a> ;
153.	Mr. Doljin Urtnasan	CNS Senior Officer, Civil Aviation Authority of Mongolia, National Civil Aviation Center	<a href="mailto:d_urtnasan@mcaa.gov.mn">d_urtnasan@mcaa.gov.mn</a>
<b>19. MYANMAR (10)</b>			
154.	Mr. Aung Myint Thein	General Manager - ATM Department of Civil Aviation, Myanmar	<a href="mailto:aungmyintthein.dca@gmail.com">aungmyintthein.dca@gmail.com</a> ;
155.	Mr. Aung Zaw Thein	Assistant General Manager - ATM Department of Civil Aviation, Myanmar	<a href="mailto:azawthein@gmail.com">azawthein@gmail.com</a> ;
156.	Mr. Tin Maung Kyi	Assistant General Manager - ATM Department of Civil Aviation, Myanmar	<a href="mailto:tmk12366@gmail.com">tmk12366@gmail.com</a> ;
157.	Mr. Kyaw Aye Maung	Assistant General Manager - ATM Department of Civil Aviation, Myanmar	<a href="mailto:kyawayemaung@gmail.com">kyawayemaung@gmail.com</a> ;
158.	Mr. Zaw Min Oo	Deputy General Manager (CNS) Department of Civil Aviation, Myanmar	<a href="mailto:zawminoo76@gmail.com">zawminoo76@gmail.com</a> ;
159.	Mr. Than Lwin	Deputy General Manager (AIS) Department of Civil Aviation, Myanmar	<a href="mailto:thanlwin.ais@gmail.com">thanlwin.ais@gmail.com</a> ;
160.	Mr. Thein Naing	Director (ANS) Department of Civil Aviation, Myanmar	<a href="mailto:chittwo975@gmail.com">chittwo975@gmail.com</a> ;
161.	Mr. Nyunt Shwe	Deputy Director (ANS) Department of Civil Aviation, Myanmar	<a href="mailto:ans.nyuntshwe@gmail.com">ans.nyuntshwe@gmail.com</a> ;
162.	Mr. Hla Phone Zaw	Deputy Director (ASSD) Department of Civil Aviation, Myanmar	<a href="mailto:hpzdca28@gmail.com">hpzdca28@gmail.com</a> ;
163.	Mr. Win Maw	Deputy Director (MET) Department of Civil Aviation, Myanmar	<a href="mailto:winmaw.dmh2020@gmail.com">winmaw.dmh2020@gmail.com</a> ;
<b>20. NEPAL (11)</b>			
164.	Mr. Hansha Raj Pandey	Dy. Director General, Aviation Services Directorate, Civil Aviation Authority of Nepal	<a href="mailto:hansar.pandey@caanepal.gov.np">hansar.pandey@caanepal.gov.np</a> ; <a href="mailto:hrpandey@gmail.com">hrpandey@gmail.com</a> ;
165.	Ms. Nabina Karmacharya	Director Civil Aviation Authority of Nepal	<a href="mailto:Nabina.Karmacharya@caanepal.gov.np">Nabina.Karmacharya@caanepal.gov.np</a> ; <a href="mailto:nabina2008@live.com">nabina2008@live.com</a> ;
166.	Mr. Murari Bhandari	Director Civil Aviation Authority of Nepal	<a href="mailto:bhandarimurari123@gmail.com">bhandarimurari123@gmail.com</a> ; <a href="mailto:muraribhandari@caanepal.gov.np">muraribhandari@caanepal.gov.np</a> ;
167.	Mr. Mukul Mishra	Director, CNS Department Civil Aviation Authority of Nepal	<a href="mailto:mukulmishra@fulbrightmail.org">mukulmishra@fulbrightmail.org</a> ; <a href="mailto:cnsdepartment@caanepal.gov.np">cnsdepartment@caanepal.gov.np</a> ;
168.	Mr. Suwarn Raj Upadhyay	Director, ATM Civil Aviation Authority of Nepal	<a href="mailto:suwarnr.upadhyay@caanepal.gov.np">suwarnr.upadhyay@caanepal.gov.np</a> ;
169.	Ms. Ila Upadhyay	Manager Civil Aviation Authority of Nepal	<a href="mailto:ilaupadhyay898@gmail.com">ilaupadhyay898@gmail.com</a> ;
170.	Ms. Archana Shrestha	Dy. Director General, DHM, Nepal Civil Aviation Authority of Nepal	<a href="mailto:shresthamet@gmail.com">shresthamet@gmail.com</a> ;
171.	Mr. Sanjay Kumar	Dy. Director, ANSSSD, CAAN Civil Aviation Authority of Nepal	<a href="mailto:sanjay.kumar@caanepal.gov.np">sanjay.kumar@caanepal.gov.np</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
172.	Mr. Baburaja Nakarmi	Dy. Director, TREAP, TIA/CAAN Civil Aviation Authority of Nepal	<a href="mailto:brnakarmi@gmail.com">brnakarmi@gmail.com</a> ;
173.	Mr. Dinesh Ghimire	Dy. Director, ATM, CAAN Civil Aviation Authority of Nepal	<a href="mailto:dnghimire@gmail.com">dnghimire@gmail.com</a> ;
174.	Mr. Samit Kumar Singh	Manager, CNS Division TIA Civil Aviation Authority of Nepal	<a href="mailto:samit.sing@gmail.com">samit.sing@gmail.com</a> ;
<b>21. NEW ZEALAND (3)</b>			
175.	Mr. Sean Rogers	Manager Aeronautical Services Civil Aviation Authority of New Zealand	<a href="mailto:sean.rogers@caa.govt.nz">sean.rogers@caa.govt.nz</a> ; <a href="mailto:aeronautical.services@caa.govt.nz">aeronautical.services@caa.govt.nz</a> ;
176.	Mr. Mark Blanchard	Head of Policy and Standards Airways Corporation of New Zealand Ltd.	<a href="mailto:mark.blanchard@airways.co.nz">mark.blanchard@airways.co.nz</a> ;
177.	Mr. Edmund Heng	Civil Aviation Authority of New Zealand	<a href="mailto:Edmund.Heng@caa.govt.nz">Edmund.Heng@caa.govt.nz</a> ;
<b>22. PAKISTAN (5)</b>			
178.	Mr. Shabbir Ahmed	Additional Director Airspace & Air Navigation Standards, Pakistan Civil Aviation Authority	<a href="mailto:adldaar.aans@caapakistan.com.pk">adldaar.aans@caapakistan.com.pk</a> ; <a href="mailto:shabbir.atc@gmail.com">shabbir.atc@gmail.com</a> ;
179.	Mr. Naveed Ahmad Khan	Additional Director ATS Pakistan Civil Aviation Authority	<a href="mailto:naveed1422@yahoo.com">naveed1422@yahoo.com</a> ; <a href="mailto:adldops.atm@caapakistan.com.pk">adldops.atm@caapakistan.com.pk</a> ;
180.	Mr. Muhammad Asad Khan Niazi	Joint Director Radar (Maint./Plans) Pakistan Civil Aviation Authority	<a href="mailto:mak.niazi@caapakistan.com.pk">mak.niazi@caapakistan.com.pk</a> ;
181.	Mr. Muhammad Nadeem Akhtar	Senior Joint Director OPS (ATS) Coordination Pakistan Civil Aviation Authority	<a href="mailto:mnaatco@gmail.com">mnaatco@gmail.com</a> ; <a href="mailto:nadeemakhtar@caapakistan.com.pk">nadeemakhtar@caapakistan.com.pk</a> ;
182.	Mr. Muhammad Asif	Senior Deputy Director ATM Pakistan Civil Aviation Authority	<a href="mailto:asif.muhammad@caapakistan.com.pk">asif.muhammad@caapakistan.com.pk</a> ; <a href="mailto:m.asif.awan.caa@gmail.com">m.asif.awan.caa@gmail.com</a> ;
<b>23. PAPUA NEW GUINEA (7)</b>			
183.	Mr. Lei Do'o	NCMC Civil Aviation Safety Authority	<a href="mailto:ldoo@casapng.gov.pg">ldoo@casapng.gov.pg</a> ; <a href="mailto:leidoo4@gmail.com">leidoo4@gmail.com</a> ;
184.	Mr. Percy Hosea Sukbat	Senior Aerodrome Inspector Civil Aviation Safety Authority	<a href="mailto:psukbat@casapng.gov.pg">psukbat@casapng.gov.pg</a> ; <a href="mailto:psukbat@gmail.com">psukbat@gmail.com</a> ;
185.	Ms. Hannah Pore Topa	Flight Crew Licencing Inspector Civil Aviation Safety Authority	<a href="mailto:htopa@casapng.gov.pg">htopa@casapng.gov.pg</a> ; <a href="mailto:Hannah_topa@yahoo.com.au">Hannah_topa@yahoo.com.au</a> ;
186.	Mr. Gabriel Salayau	Executive Manager Aviation Facilities Civil Aviation Safety Authority	<a href="mailto:gsalayau@casapng.gov.pg">gsalayau@casapng.gov.pg</a> ;
187.	Mr. Clement Kapapal	Executive Manager Business Support/Advisor NiuSky Pacific Limited	<a href="mailto:ckapapal@niuskyacific.com.pg">ckapapal@niuskyacific.com.pg</a> ; <a href="mailto:ckapapal67@gmail.com">ckapapal67@gmail.com</a> ;
188.	Mr. Graham Blythe	Chief Engineer/Advisor NiuSky Pacific Limited	<a href="mailto:gblythe@niuskyacific.com.pg">gblythe@niuskyacific.com.pg</a> ; <a href="mailto:blythe_graham@hotmail.com">blythe_graham@hotmail.com</a> ;
189.	Mr. Paul Kafafi	ATM Center Supervisor/Advisor Port Moresby Center, NiuSky Pacific Limited	<a href="mailto:pkafafi@niuskyacific.com.pg">pkafafi@niuskyacific.com.pg</a> ;
<b>24. PHILIPPINES (7)</b>			
190.	Mr. Arnold Rivera Balucating	Assistant Director General I (ANS) Civil Aviation Authority of the Philippines	<a href="mailto:arnold_balucating@caap.gov.ph">arnold_balucating@caap.gov.ph</a> ; <a href="mailto:ans_chief@caap.gov.ph">ans_chief@caap.gov.ph</a> ;
191.	Ms. Marlene I. Singson	Assistant Director General II (ATS) Civil Aviation Authority of the Philippines	<a href="mailto:ats_misingson@caap.gov.ph">ats_misingson@caap.gov.ph</a> ; <a href="mailto:mythenelram@yahoo.com.ph">mythenelram@yahoo.com.ph</a> ;
192.	Mr. Gary M. Jadie	Department Manager III (ANS) Civil Aviation Authority of the Philippines	<a href="mailto:garymjadie@caap.gov.ph">garymjadie@caap.gov.ph</a> ;
193.	Mr. Leandro R. Varquez	Acting Department Manager III (ANS) Civil Aviation Authority of the Philippines	<a href="mailto:elbotvarquez@gmail.com">elbotvarquez@gmail.com</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
194.	Mr. Elmer E. Gomez	Department Manager III, ANS Civil Aviation Authority of the Philippines	<a href="mailto:anod@caap.gov.ph">anod@caap.gov.ph</a> ;
195.	Ms. Jessica Adelaine D. Jamero	Acting Department Manager III, ATS Civil Aviation Authority of the Philippines	<a href="mailto:jamerojessica@gmail.com">jamerojessica@gmail.com</a> ;
196.	Ms. Melba S. Acurantes	Acting Department Manager III, ATS Civil Aviation Authority of the Philippines	<a href="mailto:atppd@caap.gov.ph">atppd@caap.gov.ph</a> ; <a href="mailto:ms_acurantes@yahoo.com">ms_acurantes@yahoo.com</a> ;
<b>25.</b>	<b>REPUBLIC OF KOREA (20)</b>		
197.	Mr. KWAK Young-Pil	Director of Air Traffic Division, Korea Office of Civil Aviation (KOCA), MOLIT	<a href="mailto:kwakyp@korea.kr">kwakyp@korea.kr</a> ;
198.	Ms. SHIN Jung-Ok	Deputy Director, Air Traffic Division, Korea Office of Civil Aviation	<a href="mailto:forjade@korea.kr">forjade@korea.kr</a> ;
199.	Ms. JUNG Hye-In	Deputy Director, Air Traffic Division, Korea Office of Civil Aviation	<a href="mailto:hyein@korea.kr">hyein@korea.kr</a> ;
200.	Mr. LEE Jun-Ho	Assistant Director of Air Traffic Division Korea Office of Civil Aviation	<a href="mailto:garund9@korea.kr">garund9@korea.kr</a> ;
201.	Mr. KIM Kyu-Tae	Assistant Director, Air Traffic Division, Korea Office of Civil Aviation	<a href="mailto:kimkt23@korea.kr">kimkt23@korea.kr</a> ;
202.	Mr. KIM Do-Wan	Deputy Director MOLIT	<a href="mailto:wany@korea.kr">wany@korea.kr</a> ;
203.	Mr. PARK Sang-Hoon	Assistant Director Korea Office of Civil Aviation	<a href="mailto:sanghoon16@korea.kr">sanghoon16@korea.kr</a> ;
204.	Mr. JANG Kyungjun	Deputy Director Korea Office of Civil Aviation (KOCA)	<a href="mailto:skyjjan@korea.kr">skyjjan@korea.kr</a> ;
205.	Mr. LEE Jinjong	Deputy Director of Air Navigation Facilities Division Korea Office of Civil Aviation (KOCA)	<a href="mailto:runway14@korea.kr">runway14@korea.kr</a> ;
206.	Ms. LEE Goeun	Assistant Director Korea Office of Civil Aviation	<a href="mailto:whiningly@korea.kr">whiningly@korea.kr</a> ;
207.	Ms. KIM Yujin	Assistant Director Korea Office of Civil Aviation	<a href="mailto:kyjin22@korea.kr">kyjin22@korea.kr</a> ;
208.	Ms. CHANG Seungwon	Deputy Director, Air Traffic Flow Management Div., ATM Office, MOLIT	<a href="mailto:lovelyjoey@korea.kr">lovelyjoey@korea.kr</a> ;
209.	Mr. KWON Jehyun	Assistant Director, Air Traffic Flow Management Div., ATM Office, MOLIT	<a href="mailto:jaehyun8912@korea.kr">jaehyun8912@korea.kr</a> ;
210.	Mr. YOO Dongseon	Assistant Officer, Air Traffic Flow Management Div., ATM Office, MOLIT	<a href="mailto:yds1992@korea.kr">yds1992@korea.kr</a> ;
211.	Ms. LIM Sojin	Assistant Officer, Air Traffic Flow Management Div., ATM Office, MOLIT	<a href="mailto:sojinlim@korea.kr">sojinlim@korea.kr</a> ;
212.	Mr. JEONG Kang-A	Deputy Director, Aviation Meteorological Office of Korea Meteorological Administration	<a href="mailto:kang0365@korea.kr">kang0365@korea.kr</a> ;
213.	Mr. KIM Yeonghun	Assistant Director, Aviation Meteorological Office of Korea Meteorological Administration	<a href="mailto:kyh13@korea.kr">kyh13@korea.kr</a> ;
214.	Dr. LEE Won-sik	Director General, Korea Institute of Aviation Safety Technology (KIAST)	<a href="mailto:wslee@kiast.or.kr">wslee@kiast.or.kr</a> ;
215.	Ms. LEE Ji-hyun	Researcher, Korea Institute of Aviation Safety Technology	<a href="mailto:jh.lee@kiast.or.kr">jh.lee@kiast.or.kr</a> ;
216.	Mr. NAM Seung-ju	Researcher, Korea Institute of Aviation Safety Technology	<a href="mailto:namsj1@kiast.or.kr">namsj1@kiast.or.kr</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
<b>26.</b>	<b>SINGAPORE (9)</b>		
	217. Mr. Kevin Shum	Deputy Secretary (Strategy, Sustainability & Technology), Ministry of Transport	<a href="mailto:kevin_shum@mot.gov.sg">kevin_shum@mot.gov.sg</a> ;
	218. Mr. Ng Tee Chiou	Deputy Director-General Civil Aviation Authority of Singapore	<a href="mailto:Ng_tee_chiou@caas.gov.sg">Ng_tee_chiou@caas.gov.sg</a> ;
	219. Mr. Kuah Kong Beng	Director Special Projects Civil Aviation Authority of Singapore	<a href="mailto:kuah_kong_beng@caas.gov.sg">kuah_kong_beng@caas.gov.sg</a> ;
	220. Mr. Vincent Hwa	Director (Air Traffic Services) Civil Aviation Authority of Singapore	<a href="mailto:Vincent_Hwa@caas.gov.sg">Vincent_Hwa@caas.gov.sg</a> ;
	221. Mr. Ho Wei Sean	Deputy Director (ATM Integration & Capability Experimentation) CAAS	<a href="mailto:Ho_Wei_Sean@caas.gov.sg">Ho_Wei_Sean@caas.gov.sg</a> ;
	222. Mr. Joseph Lim	Senior ATC Manager (ATM Integration & Collaboration) Civil Aviation Authority of Singapore	<a href="mailto:joseph_lim@caas.gov.sg">joseph_lim@caas.gov.sg</a> ;
	223. Ms. He Peiru	Senior Air Traffic Control Manager (Air Traffic Management – South East Asia 1) Civil Aviation Authority of Singapore	<a href="mailto:he_peiru@caas.gov.sg">he_peiru@caas.gov.sg</a> ;
	224. Ms. Sharon Li	Senior Manager (Airspace Policy) Civil Aviation Authority of Singapore	<a href="mailto:sharon_li@caas.gov.sg">sharon_li@caas.gov.sg</a> ;
	225. Mr. Skyler Tan	Senior Data Scientist Civil Aviation Authority of Singapore	<a href="mailto:skyler_tan@caas.gov.sg">skyler_tan@caas.gov.sg</a> ;
<b>27.</b>	<b>SOLOMON ISLANDS (2)</b>		
	226. Mr. Solomon Sammy	Quality Manager (SIMS) Solomon Islands Meteorological Service	<a href="mailto:s.sammy@met.gov.sb">s.sammy@met.gov.sb</a> ;
	227. Mr. Manoah Tapa	Chief Meteorological / Acting (SIMS) Solomon Islands Meteorological Service	<a href="mailto:m.tapa@met.gov.sb">m.tapa@met.gov.sb</a> ;
<b>28.</b>	<b>SRI LANKA (4)</b>		
	228. Mrs. Sherina Casseer	Deputy Director General (Aeronautical Services Regulation) / Civil Aviation Authority of Sri Lanka	<a href="mailto:ddgasr@caa.lk">ddgasr@caa.lk</a> ;
	229. Mr. Kelum Prasanna	Director Air Navigation Services/CAASL Civil Aviation Authority of Sri Lanka	<a href="mailto:dans@caa.lk">dans@caa.lk</a> ;
	230. Mr. Nishan Abeywardena	Head of Air Navigation Services/AASL Airport & Aviation Services (Sri Lanka) Ltd.	<a href="mailto:head.ans@airport.lk">head.ans@airport.lk</a> ; <a href="mailto:nishan65abey18@gmail.com">nishan65abey18@gmail.com</a> ;
	231. Mr. Vidura Thammitage	Senior Electronics Engineer Airport & Aviation Services (Sri Lanka) Ltd.	<a href="mailto:vidura.eane@airport.lk">vidura.eane@airport.lk</a> ;
<b>29.</b>	<b>THAILAND (40)</b>		
	232. Mr. Sarawoot Rungruengwajaike	Acting Head of Navigation Aids Standards Div. Senior Officer of CNS Standards Division The Civil Aviation Authority of Thailand	<a href="mailto:sarawoot.r@caat.or.th">sarawoot.r@caat.or.th</a> ;
	233. Mr. Jakrin Kutantham	Senior Officer of Air Navigation Services Standards Development Div., CAAT	<a href="mailto:jakrin.k@caat.or.th">jakrin.k@caat.or.th</a> ;
	234. Ms. Tawika Huayhongthong	Manager of Air Navigation Services Standard Dept. The Civil Aviation Authority of Thailand	<a href="mailto:tawika.h@caat.or.th">tawika.h@caat.or.th</a> ;
	235. Ms. Haruethai Pattanapisudtichai	Acting head of Air Traffic Management Standards Division, CAAT	<a href="mailto:haruethai.p@caat.or.th">haruethai.p@caat.or.th</a> ;
	236. Mr. Chai Kaewkitinarong	Head of Aeronautical Information and Charts Standards Division, CAAT	<a href="mailto:chai.k@caat.or.th">chai.k@caat.or.th</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
237.	Mr. Somchai Yimsricharoenkit	Head of Aeronautical Meteorology Standard Div., The Civil Aviation Authority of Thailand	<a href="mailto:somchai.y@caat.or.th">somchai.y@caat.or.th</a> ;
238.	Mr. Pawat Harnbumrungkit	Head of Airspace and Flight Procedures Oversight Standards Division, CAAT	<a href="mailto:Pawat.h@caat.or.th">Pawat.h@caat.or.th</a> ;
239.	Mr. Jirakrit Thamnarak	Officer, Air Traffic Management Standards Div., The Civil Aviation Authority of Thailand	<a href="mailto:jirakrit.t@caat.or.th">jirakrit.t@caat.or.th</a> ;
240.	Mr. Wongtawan Sawasdimongkol	Air Traffic Management Standards Division The Civil Aviation Authority of Thailand	<a href="mailto:wongtawan.s@caat.or.th">wongtawan.s@caat.or.th</a> ;
241.	Mr. Sakpon Chaimongkol	Senior Officer of Search and Rescue Oversight Standards Division, CAAT	<a href="mailto:sakpon.c@caat.or.th">sakpon.c@caat.or.th</a> ;
242.	Ms. Angsana Panmongkon	Senior Officer of Public Aerodrome Standards Officer, CAAT	<a href="mailto:angsana.r@caat.or.th">angsana.r@caat.or.th</a> ;
243.	Mr. Teeravee Yongwattanaajiranon	Officer Aerodrome Standards Development The Civil Aviation Authority of Thailand	<a href="mailto:teeravee.y@caat.or.th">teeravee.y@caat.or.th</a> ;
244.	Ms. Pataraporn Jessadapornchai	Officer Aerodrome Standards Development The Civil Aviation Authority of Thailand	<a href="mailto:pataraporn.j@caat.or.th">pataraporn.j@caat.or.th</a> ;
245.	Ms. Pinthong Choungchot	Officer Aerodrome Standards Development The Civil Aviation Authority of Thailand	<a href="mailto:pinthong.c@caat.or.th">pinthong.c@caat.or.th</a> ;
246.	Mr. Buntoeng Megchai	Manager of Air Navigation Operations Management Department, CAAT	<a href="mailto:buntoeng.m@caat.or.th">buntoeng.m@caat.or.th</a> ;
247.	Mr. Nitchaphon Chuaprang	Air Navigation Operations Planning Division Senior Officer, CAAT	<a href="mailto:nitchaphon.c@caat.or.th">nitchaphon.c@caat.or.th</a> ;
248.	Mr. Sikarate Tarasak	Air Navigation Operations Planning Division Officer, CAAT	<a href="mailto:sikarate.t@caat.or.th">sikarate.t@caat.or.th</a> ;
249.	Mr. Phichpawis Plengsiriwat	Air Navigation Operations Planning Division Officer, CAAT	<a href="mailto:phichpawis.p@caat.or.th">phichpawis.p@caat.or.th</a> ;
250.	Ms. Kamonchanok Chuamnat	Air Navigation Operations Planning Division Officer, CAAT	<a href="mailto:kamonchanok.c@caat.or.th">kamonchanok.c@caat.or.th</a> ;
251.	Mr. Chaiwat Saekhew	Air Navigation Operations Planning Division Officer, CAAT	<a href="mailto:chaiwat.s@caat.or.th">chaiwat.s@caat.or.th</a> ;
252.	Ms. Nattha Inluemsai	Air Navigation Operations Planning Division Senior Officer, CAAT	<a href="mailto:nattha.i@caat.or.th">nattha.i@caat.or.th</a> ;
253.	Mr. Suvichan Sathitkitpichet	Director, Network Operations, Air Traffic Management Center Aeronautical Radio of Thailand Limited	<a href="mailto:suvichan.st@aerothai.co.th">suvichan.st@aerothai.co.th</a> ;
254.	Mr. Debdhanit Yupho	Director, Policy Analysis and Strategy Planning Department Aeronautical Radio of Thailand Limited	<a href="mailto:debdhanit.yu@aerothai.co.th">debdhanit.yu@aerothai.co.th</a> ;
255.	Mr. Chonlawit Banphawatthanarak	Director, Quality Improvement Department Aeronautical Radio of Thailand Limited	<a href="mailto:chonlawit.ba@aerothai.co.th">chonlawit.ba@aerothai.co.th</a> ;
256.	Mr. Chainan Chaisompong	Air Traffic Engineering Manager Aeronautical Radio of Thailand Limited	<a href="mailto:chainan.ch@aerothai.co.th">chainan.ch@aerothai.co.th</a> ;
257.	Ms. Saifon Obromsook	Engineering Manager, Safety Management System, Aeronautical Radio of Thailand Ltd.	<a href="mailto:saifon.ob@aerothai.co.th">saifon.ob@aerothai.co.th</a> ;
258.	Mr. Piyawut Tantimekabut	Air Traffic Management Network Manager Aeronautical Radio of Thailand Limited	<a href="mailto:piyawut.ta@aerothai.co.th">piyawut.ta@aerothai.co.th</a> ;
259.	Ms. Amornrat Jirattigalachote	Strategic Planning Manager, Engineering Aeronautical Radio of Thailand Limited	<a href="mailto:amornrat.ji@aerothai.co.th">amornrat.ji@aerothai.co.th</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
260.	Ms. Ratchaneekorn Thamchadee	Transport Technical Officer Department of Airports (DOA)	<a href="mailto:ratcha.dca@gmail.com">ratcha.dca@gmail.com</a> ;
261.	Ms. Ploykaprib Soralump	Transport Technical Officer Department of Airports (DOA)	<a href="mailto:ploykaprib.s@gmail.com">ploykaprib.s@gmail.com</a> ;
262.	Mr. Boosapa Tavichai	Specialist of Aerodrome Standards and Safety Dept., Airport of Thailand Public Co., Ltd.	<a href="mailto:boosapa@airportthai.co.th">boosapa@airportthai.co.th</a> ;
263.	Ms. Saowakhon Tetiya	Aerodrome Safety Specialist of Aviation Services Standard Department Airport of Thailand Public Company Limited	<a href="mailto:saowakhon.t@airportthai.co.th">saowakhon.t@airportthai.co.th</a> ;
264.	Mr. Bancha Kaewngam	Director of Aeronautical Weather Forecast Sub-division, Meteorological Department	<a href="mailto:bancha.k@tmd.mail.go.th">bancha.k@tmd.mail.go.th</a> ;
265.	Ms. Rassmee Damrongkietwattana	Director of Aeronautical Weather Monitoring Sub-division, Meteorological Department	<a href="mailto:rassmee@hotmail.com">rassmee@hotmail.com</a> ;
266.	Mrs. Tipsudawan Ruenchinda	Director of Aeronautical Meteorology Standard Sub-division, Meteorological Department	<a href="mailto:rtipsuda2559@gmail.com">rtipsuda2559@gmail.com</a> ;
267.	Mr. Putchaphan Sirisap	Acting Director of Aeronautical Meteorology Research and Development Sub-division Meteorological Department	<a href="mailto:Siri_putch@hotmail.com">Siri_putch@hotmail.com</a> ;
268.	Mr. Punlop Sungsilert	Chief of Technical and Standard Group Office of the Search and Rescue Commission	<a href="mailto:punlopsung@yahoo.com">punlopsung@yahoo.com</a> ;
269.	Ms. Phattaraporn Sarikkha	Transport Technical Officer Office of the Search and Rescue Commission, Ministry of Transport	<a href="mailto:p.sarikkha@gmail.com">p.sarikkha@gmail.com</a> ;
270.	Ms. Awassada Phopratab	Transport Technical Officer Office of the Search and Rescue Commission	<a href="mailto:awassada.p@mot.go.th">awassada.p@mot.go.th</a> ;
271.	Ms. Phoichanee Saelim	Transport Technical Officer Office of the Search and Rescue Commission	<a href="mailto:pojchanee@hotmail.com">pojchanee@hotmail.com</a> ;
<b>30.</b>	<b>TIMOR LESTE (3)</b>		
272.	Mr. Carlito Noronha	Director of Air Navigation Civil Aviation Authority of Timor-Leste	<a href="mailto:cnoronha@aactl.gov.tl">cnoronha@aactl.gov.tl</a> ; <a href="mailto:manewalun88@gmail.com">manewalun88@gmail.com</a> ;
273.	Mr. Jose Nivio Soares	Chief Department of MET/SAR Civil Aviation Authority of Timor-Leste	<a href="mailto:jnsoares@aactl.gov.tl">jnsoares@aactl.gov.tl</a> ;
274.	Mr. Michael Lockwood	International Adviser for ANS Air Traffic Solutions, Australia	<a href="mailto:mike@airtrafficsolutions.com">mike@airtrafficsolutions.com</a> ;
<b>31.</b>	<b>UNITED STATES (9)</b>		
275.	Mr. Chris Carter	Director, Asia Pacific Area Office Federal Aviation Administration – IAO American Embassy – Singapore 258508	<a href="mailto:chris.carter@faa.gov">chris.carter@faa.gov</a> ;
276.	Mr. Shayne A. Campbell	Senior Air Traffic Representative, Asia Pacific Federal Aviation Administration-IAO American Embassy, Singapore 258508	<a href="mailto:shayne.a.campbell@faa.gov">shayne.a.campbell@faa.gov</a> ;
277.	Mr. Brian Hutchins	Senior Representative Asia Pacific Region, Flight Standards Service, Federal Aviation Administration, American Embassy - Singapore	<a href="mailto:brian.hutchins@faa.gov">brian.hutchins@faa.gov</a> ;
278.	Ms. Mary Jo Marzinzik	Foreign Affairs Specialist, Federal Aviation Administration, Washington, DC 20591	<a href="mailto:maryjo.marzinzik@faa.gov">maryjo.marzinzik@faa.gov</a> ;
279.	Ms. Almira (Alma) Ramadani	Senior Air Traffic Representative, Asia Pacific Federal Aviation Administration Air Traffic Organization, Mission Support	<a href="mailto:almira.ramadani@faa.gov">almira.ramadani@faa.gov</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
280.	Ms. Natalie Randolph	Division Manager, NextGen International NextGen Collaboration and Messaging Office, ANG-M, Federal Aviation Administration	<a href="mailto:natalie.randolph@faa.gov">natalie.randolph@faa.gov</a> ;
281.	Ms. Lillian Miller	Foreign Affairs Specialist, Office of Airports, Federal Aviation Administration	<a href="mailto:lillian.miller@faa.gov">lillian.miller@faa.gov</a> ;
282.	Mr. Daniel Jacob	FAA Senior Representative-New Delhi U.S. Federal Aviation Administration – IAO U.S. Embassy – New Delhi, India 110021	<a href="mailto:daniel.jacob@faa.gov">daniel.jacob@faa.gov</a> ;
283.	Ms. Yolanda Cooper	Management and Program Analyst Federal Aviation Administration Washington, DC 20591	<a href="mailto:yolanda.d.cooper@faa.gov">yolanda.d.cooper@faa.gov</a> ;
<b>32. VIET NAM (6)</b>			
284.	Ms. Nguyen Lan Oanh	Deputy Director of Air Navigation Department Civil Aviation Authority of Viet Nam	<a href="mailto:lanoanh@caa.gov.vn">lanoanh@caa.gov.vn</a> ;
285.	Ms. Tran Duc Hoai Phuong	Deputy Director of Air Navigation Department Civil Aviation Authority of Viet Nam	<a href="mailto:phuongtd@caa.gov.vn">phuongtd@caa.gov.vn</a> ;
286.	Mr. Nguyen Huu Duc	Official of Air Navigation Department Civil Aviation Authority of Viet Nam	<a href="mailto:nguyenhuuduc@caa.gov.vn">nguyenhuuduc@caa.gov.vn</a> ;
287.	Ms. Ho Thi Doan Trang	Official of Air Navigation Department Civil Aviation Authority of Viet Nam	<a href="mailto:hodoantrang@caa.gov.vn">hodoantrang@caa.gov.vn</a> ;
288.	Mr. Nguyen Trung Kien	Chief of Airspace and Flight Procedure Design, ATS Department, VATM Viet Nam Air Traffic Management Corp.	<a href="mailto:kiennt@vatm.vn">kiennt@vatm.vn</a> ;
289.	Mr. Quan Phuong Tran	Manager of ATS division – Middle Region Air Traffic Services Company – VATM	<a href="mailto:quangtranphuong@vatm.vn">quangtranphuong@vatm.vn</a> ;
<b>INTERNATIONAL ORGANIZATIONS</b>			
<b>1. ACI (1)</b>			
290.	Mr. SL Wong	Director - Technical & Administrative Affairs Airports Council International Asia-Pacific Hong Kong International Airport, Hong Kong	<a href="mailto:sl@aci-asiapac.aero">sl@aci-asiapac.aero</a> ;
<b>2. CANSO (1)</b>			
291.	Mr. SOH Poh Theen	Director Asia Pacific Affairs CANSO Civil Air Navigation Services Organization, Singapore	<a href="mailto:poh.theen.soh@canso.org">poh.theen.soh@canso.org</a> ; <a href="mailto:apac@canso.org">apac@canso.org</a> ;
<b>3. IATA (5)</b>			
292.	Mr. Blair Cowles	Regional Director, Operations, Safety and Security, Singapore 117372	<a href="mailto:cowlesb@iata.org">cowlesb@iata.org</a> ;
293.	Mr. George Chan	Regulatory Affairs Manager – Operations and Industry, Cathay Pacific Airways Limited	<a href="mailto:george_g_chan@cathaypacific.com">george_g_chan@cathaypacific.com</a> ;
294.	Mr. Daniel Smith	Manager ATM, Qantas Group IATA – Qantas Group, ATM, Australia	<a href="mailto:danielsmith@qantas.com.au">danielsmith@qantas.com.au</a> ;
295.	Mr. Sunil Prasad	Vice President, Flight Operation SpiceJet Ltd.	<a href="mailto:sunil.prasad@spicejet.com">sunil.prasad@spicejet.com</a> ;
296.	Ms. Megan YIN	Manager of ATS, Asia Pacific United Airlines	<a href="mailto:yuanmegan.yin@united.com">yuanmegan.yin@united.com</a> ;
<b>4. IFALPA (1)</b>			
297.	Captain Max Matsumoto	Regional Vice President North Pacific RVP NOP, IFALPA	<a href="mailto:max.matsumoto@alpajapan.org">max.matsumoto@alpajapan.org</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
<b>5. IFATSEA (2)</b>			
298.	Mr. Theodore Kiritsis	President IFATSEA 3067 Alykos Agia Marina Koropi 1940 Attika, Greece	<a href="mailto:president@ifatsea.org">president@ifatsea.org</a> ; <a href="mailto:Theodore_kiritsis@yahoo.gr">Theodore_kiritsis@yahoo.gr</a> ;
299.	Mr. Senthilvel Balasubramanian	Regional Director, Asia Pacific, IFATSEA Airports Authority of India, Kempegowda Int'l Airport, Bangalore, Karnataka, India	<a href="mailto:Senthilvel.Balasubramanian@ifatsea.org">Senthilvel.Balasubramanian@ifatsea.org</a> ; <a href="mailto:bsenthilvel@aai.aero">bsenthilvel@aai.aero</a> ;
<b>6. PASO (1)</b>			
300.	Mr. Mike Haines	Aerodromes and Ground Aids Technical Advisor, Pacific Aviation Safety Office Republic of Vanuatu	<a href="mailto:mhaines@paso.aero">mhaines@paso.aero</a> ;
<b>7. ICAO Headquarters (3)</b>			
301.	Mr. Herman Pretorius	Technical Officer, Safety, ANB/SAF/PCI Air Navigation Bureau, ICAO Headquarters	<a href="mailto:HPretorius@icao.int">HPretorius@icao.int</a> ;
302.	Dr. Neil Dickson	Chief, Environmental Standards International Civil Aviation Organization	<a href="mailto:ndickson@icao.int">ndickson@icao.int</a> ;
303.	Ms. Deniz KAYMAK	Associate Environment Officer Air Transport Bureau, Environment International Civil Aviation Organization	<a href="mailto:dkaymak@icao.int">dkaymak@icao.int</a> ;
<b>ICAO Regional Office (19)</b>			
304.	Mr. Tao Ma	Regional Director International Civil Aviation Organization	<a href="mailto:apac@icao.int">apac@icao.int</a> ;
305.	Mr. Manjit Singh	Regional Deputy Director International Civil Aviation Organization	<a href="mailto:msingh@icao.int">msingh@icao.int</a> ;
306.	Mr. Punya Raj Shakya	Regional Officer, Aerodrome&Ground Aids International Civil Aviation Organization	<a href="mailto:pshakya@icao.int">pshakya@icao.int</a> ;
307.	Mr. Shane Sumner	Regional Officer, Air Traffic Management International Civil Aviation Organization	<a href="mailto:ssumner@icao.int">ssumner@icao.int</a> ;
308.	Mr. Hiroyuki Takata	Regional Officer, Air Traffic Management International Civil Aviation Organization	<a href="mailto:htakata@icao.int">htakata@icao.int</a> ;
309.	Mr. Peter Dunda	Regional Officer, Aeronautical Meteorology International Civil Aviation Organization	<a href="mailto:pdunda@icao.int">pdunda@icao.int</a>
310.	Mr. Sayuta Senobua	Regional Officer, Environment and Climate Change, ICAO	<a href="mailto:ssenobua@icao.int">ssenobua@icao.int</a> ;
311.	Mr. Ross Lockie	Regional Officer, Aviation Security and Facilitation, ICAO	<a href="mailto:rlockie@icao.int">rlockie@icao.int</a> ;
312.	Mr. Remington Low	Regional Officer, Aviation Security and Facilitation, ICAO	<a href="mailto:rlow@icao.int">rlow@icao.int</a> ;
313.	Mr. Parakrama Dissanayake	Regional Officer, Technical Assistance International Civil Aviation Organization	<a href="mailto:ddissanayake@icao.int">ddissanayake@icao.int</a> ;
314.	Mr. Susantha De Silva	Regional Officer, Flight Safety International Civil Aviation Organization	<a href="mailto:sdesilva@icao.int">sdesilva@icao.int</a> ;
315.	Mr. SM Nazmul Anam	Regional Officer, Flight Safety International Civil Aviation Organization	<a href="mailto:sanam@icao.int">sanam@icao.int</a> ;
316.	Mr. Luo Yi	Regional Officer, Communications, Navigation and Surveillance, ICAO	<a href="mailto:ylo@icao.int">ylo@icao.int</a> ;
317.	Ms. Soniya Nibhani	Regional Officer, CNS International Civil Aviation Organization	<a href="mailto:snibhani@icao.int">snibhani@icao.int</a> ;

## LIST OF PARTICIPANTS

NAME		TITLE/ORGANIZATION	E-MAIL
318.	Mr. Derek Sze L. How	Regional Officer, CNS International Civil Aviation Organization	<a href="mailto:show@icao.int">show@icao.int</a> ;
319.	Mr. Ying Weng Kit	Air Traffic Management Officer International Civil Aviation Organization	<a href="mailto:wying@icao.int">wying@icao.int</a> ;
320.	Ms. Wenhan Zhong	Regional Officer, CNS International Civil Aviation Organization	<a href="mailto:wzhong@icao.int">wzhong@icao.int</a> ;
321.	Ms. Matima Ariyachaipanich	Regional Officer, Flight Safety International Civil Aviation Organization	<a href="mailto:mariyachaipanich@icao.int">mariyachaipanich@icao.int</a> ;
322.	Ms. Pornrudee Ruthapichairak	Business Development Officer International Civil Aviation Organization	<a href="mailto:pruthapichairak@icao.int">pruthapichairak@icao.int</a> ;
<b>ICAO RSO (4)</b>			
323.	Mr. Raphael Guillet	Chief of the Asia and Pacific Regional Sub-Office, Beijing China	<a href="mailto:rguillet@icao.int">rguillet@icao.int</a> ;
324.	Mr. Zhifeng Xu	Regional Officer ATM Asia & Pacific Regional Sub-office	<a href="mailto:zxuu@icao.int">zxuu@icao.int</a> ;
325.	Mr. Manjunath Krishna Nelli	Regional Officer, ATM RSO, ICAO, Beijing	<a href="mailto:mneli@icao.int">mneli@icao.int</a> ;
326.	Mr. Vijay Kumar Mishra	Regional Officer, PBN International Civil Aviation Organization	<a href="mailto:vk mishra@icao.int">vk mishra@icao.int</a> ; <a href="mailto:vk mishra8@gmail.com">vk mishra8@gmail.com</a> ;

### LIST OF SPONSOR (8)

**(OBSERVER)**

#### LAMINAAR AVIATION INFOTECH

1.	Mr. Bony Sharma	Vice President, Business Development, Laminaar Aviation Infotech	<a href="mailto:bony.sharma@laminaar.com.sg">bony.sharma@laminaar.com.sg</a> ;
2.	Mr. Jitender Singla <i>Speaker</i>	General Manager, ATS/SME Laminaar Aviation Infotech	<a href="mailto:jitender.singla@laminaar.in">jitender.singla@laminaar.in</a> ;
3.	Mr. Sahul Maricar	Associate Vice President, Business Development, Laminaar Aviation Infotech	<a href="mailto:sahul.maricar@laminaar.com.sg">sahul.maricar@laminaar.com.sg</a> ;
4.	Ms. Saira Kanchwala	Associate Vice President, Business Development, Laminaar Aviation Infotech	<a href="mailto:saira.kanchwala@laminaar.com.sg">saira.kanchwala@laminaar.com.sg</a> ;
5.	Mr. Lukie Hartono	Director PT. IndoMega Teknologi	<a href="mailto:lukieh@indomegateknologi.com">lukieh@indomegateknologi.com</a> ;

#### NOKIA

6.	Mr. Raymond Tan	Business Development Transportation APAC, Nokia	<a href="mailto:raymond.kl.tan@nokia.com">raymond.kl.tan@nokia.com</a> ;
7.	Mr. Harald Illias	Transportation Segment Lead, Nokia	<a href="mailto:harald.illias@nokia.com">harald.illias@nokia.com</a> ;
8.	Mr. Mohamed Saleh	Transportation Segment Expert, Digital Industries, Nokia	<a href="mailto:mohamed.2.saleh@nokia.com">mohamed.2.saleh@nokia.com</a> ;

-----



ICAO

*International Civil Aviation Organization*

**Thirty-Third Meeting of the Asia/Pacific Air Navigation  
Planning and Implementation Regional Group  
(APANPIRG/33)**

*Bali, Indonesia, Hybrid Meeting, 22 to 24 November 2022*

---

**THIRTY THIRD MEETING OF THE ASIA/PACIFIC AIR NAVIGATION PLANNING AND  
IMPLEMENTATION REGIONAL GROUP (APANPIRG/33)**

**OPENING REMARKS BY**

**MR. TAO MA**

**REGIONAL DIRECTOR, ICAO ASIA AND PACIFIC OFFICE**

**22 NOVEMBER 2022**

- **Mr. Novie Riyanto R., Secretary General, Ministry of Transport, Indonesia**
- **Mr. Kevin Shum, Chairman of APANPIRG**
- **Directors General & Heads of Delegations**
- **Chairpersons of contributory bodies of APANPIRG**
- **Distinguished members of the States' Delegations**
- **Members of International Organizations, Participants, ICAO Colleagues**
- **Ladies and Gentlemen**

Good morning, good afternoon and good evening to all and welcome to the Thirty Third Meeting of APANPIRG!

1. First, I would like to thank the Government of Indonesia for hosting APANPIRG/33 here in Bali, Indonesia.
2. This is the first in-person meeting of APANPIRG since the last meeting we had in November 2019 in Bangkok. We are also facilitating participants from States/International Organizations to join the meeting online, who could not come to Bali. We are very happy to note that we have about 287 participants from 30 States, 2 Special Administrations of China and 6 International Organisations. I would like to introduce **Mr. Herman Pretorius** from Air Navigation Bureau, who is supporting this meeting from Montreal.
3. 2020 & 2021 have proven to be the most challenging years in the history of Civil Aviation due to COVID-19.
4. COVID-19 has impacted all industries, all sectors and all aspects of our lives with devastating economic and financial losses and significant uncertainties. For the air transport and tourism sectors, COVID-19's impacts have been especially significant. For example, ICAO estimated revenue lost for Asia and Pacific Airports and ANSPs for 2020 compared to 2019 was 30. 51 billion US Dollars and 3.36 billion US Dollars respectively.

5. From the onset of the crisis, both APAC Regional Office and Regional Sub Office had adapted various new ways to interact with our accredited States in the APAC region. We had facilitated States in the implementation of the CART (ICAO Council's Aviation Recovery Task Force) Recommendations and Take-off Guidance through ICAO APAC COVID-19 Contingency and Recovery Planning Group (ACCRPG) and its Sub-groups. ACCRPG had served as a useful platform for sharing COVID-19 related experiences and information.
6. APAC RO has actively reached out to individual States to encourage and assist in updating COVID-19 Response and Recovery Implementation Centre (CRRIC) information providing the required implementation progress on the CART recommendations. APAC RO has also organized several technical webinars to reaffirm all the regional roadmap targets and exchange knowledge on technical matters.
7. To facilitate States to cope with the various challenges of restarting operations following a partial or full closure of their operations due to the COVID-19, ICAO has deployed a series of i-Packs in Asia and Pacific Regions since 2021.
8. Given the extraordinary situation and severe challenges facing global aviation and international air mobility due to the impact of COVID 19, the 57<sup>th</sup> Conference of Directors General of Civil Aviation, Asia and Pacific Region (DGCA/57) hosted by Republic of Korea has been successfully concluded in Incheon from 4 to 8 July 2022. The Conference was joined by 503 participants with 302 attending in-person and 201 online, from 31 States/Administrations and 11 International Organizations. While the outcomes of DGCA/57 related to this Group will be presented in one of the Working Papers by the Secretariat, I would like to draw your attention on Action Item 57/59 which acknowledged the completion of the ICAO APAC COVID-19 Contingency and Recovery Planning Group (ACCRPG) work and urged States/Administrations, organizations and industry to continue sharing their views and best practices on how the APAC Region will meet the challenges of the current and future pandemics at the various regional forums (i.e., APANPIRG, RASG-APAC, RASCF).
9. ICAO has successfully concluded the 41<sup>st</sup> Session of the Assembly from 27 September to 7 October 2022. 2,573 delegates (Ministers and high-ranking government officials) from 184 States gathered in-person and virtually for the launch of the ICAO 41st Assembly. The outcomes of the 41st Assembly will be presented separately in the WP by our colleague from ICAO HQs under Agenda Item 2.
10. We are coordinating with India for organizing the Second Asia/Pacific Ministerial Conference on Civil Aviation, which will be held tentatively in third quarter of 2023.
11. As per ICAO Air Transport monthly monitor data for July 2022, an improvement in traffic recovery was noticed thanks to the relaxation of travel restrictions compounded by the strong travel demand. The main contributor to the improvement in Asia and Pacific Regions was the increase in Chinese domestic traffic. Nevertheless, recovery of the Asia and Pacific Regions still lags behind other regions.
12. In my opening remarks today, I would not go into the details of the excellent work done by the various subgroups supported by staff of Regional Office even in this constrained environment, as these reports will be presented during the course of the meeting by the respective sub-groups. However, I would like to emphasize certain areas where additional efforts by States/Administrations are required for improvement of the implementation progress:

(I) **Beijing declaration commitments:**

- We have observed slow progress in certification of remaining uncertified international aerodromes, despite the target date for meeting this commitment was set the **end of 2020**;
- We have also observed slow progress in the implementation of transition from AIS to AIM; CRV implementation, ATFM/CDM implementation, development and implementation of National Air Navigation Plan, the target date for meeting this commitment was set the **end of 2022**.

(II) **APANPIRG air navigation deficiencies** – this is another area where more efforts by States/Administrations are required for their resolution.

13. This year we have relatively less number of WPs and IPs, but their quality is of high standard for which we are thankful to the contributors and I am confident that these Papers would stimulate constructive and useful discussions for our benefit.

14. I would like to thank **Mr. Novie Riyanto R.**, Secretary General, Ministry of Transport, Indonesia, without his commitment and support it would have been impossible to organize APANPIRG/33 Meeting in Bali and I am honoured to have his personal presence with us despite of his busy schedule. I would also like to thank our Chair of APANPIRG, Mr. Kevin Shum for his commitment to this important meeting. I would also extend my appreciation to Chairs and Members of the various subgroups and subsidiary bodies working under the APANPIRG for their significant contributions. The hard work put in by the staff of the Regional Office and the Regional Sub-Office to organize the various meetings and facilitate implementation of the decisions of the APANPIRG also needs to acknowledge.

15. In conclusion, whether we are talking about aviation safety or security, seamless skies, or any other aspect of international civil aviation, consistent and timely progress requires total and unfettered cooperation and collaboration. Always, the result is to provide users with the safest and most efficient mode of transportation possible.

16. This year, we have five exhibitors and sponsors, namely, **NOKIA, Laminaar Aviation Infotech, AirNAV Indonesia, Indonesia Civil Aviation Polytechnic Curug, Angkasa Pura Airports and Garuda Indonesia**. I would like to thank to all exhibitors and sponsors of the programme.

As we have a very tight schedule for the next three days. I would wish all of us a very successful APANPIRG meeting in this hybrid format.

Thank you.

-----



ICAO

International Civil Aviation Organization

**Thirty-Third Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/33)**

Bali, Indonesia, Hybrid Meeting, 22 to 24 November 2022

**LIST OF PAPERS AND PRESENTATIONS**

Paper No.	Agenda Item	Title	Presented by
<b>WORKING PAPERS</b>			
WP/01	—	Adoption of the Provisional Agenda	Secretariat
WP/02	1A	Where does APAC Stand with the Beijing Declaration Commitments?	Secretariat
WP/03	1B.1	Council Action on the Report on APANPIRG/32 Meeting	Secretariat
WP/04	1B.2	Status of Implementation of APANPIRG/32 Conclusions and Decisions	Secretariat
WP/05	1B.3	Status of Implementation of APANPIRG Outstanding Conclusions and Decisions	Secretariat
WP/06	1C	57 <sup>th</sup> APAC DGCA Conference Action Items on Air Navigation	Secretariat
WP/07	1D	Updates on RASG-APAC/12 Meeting Outcomes	Secretariat
WP/08	2	High-Level Review of the ICAO 41 <sup>st</sup> Assembly	Secretariat
WP/09	3.1	Report on the Sixth Meeting of AOP Sub Group	Chairperson of AOP/SG
WP/10	3.2	ATM/SG/10 Outcomes	Chairperson of ATM/SG
WP/11	3.3	RASMAG/27 Outcomes	Chairperson of RASMAG
WP/12	3.4	Report of the Twenty Sixth Meeting of CNS Sub-Group	Secretariat
WP/13	3.5	Meteorology Sub-Group (MET SG/26) Report	Chairperson of MET SG
WP/14 <b>Revision 2</b>	4	Status of Air Navigation Deficiencies in the Asia/PAC Region	Secretariat
WP/15	5	APANPIRG Work Programme 2023-2024	Secretariat
WP/16	3.2	CANSO Asia Pacific Study of New Collaboration Opportunities for Seamless ANS	CANSO
WP/17	1C	Guidance to Develop Discussion Paper for the Asia and Pacific DGCA Conference	Secretariat

Paper No.	Agenda Item	Title	Presented by
WP/18	3.4	Development of Fully Integrated Safeguarding Surfaces to Uphold Flight Safety While Facilitating Pressing Needs of Infrastructure/Building Developments in Hong Kong	Hong Kong, China
WP/19	3.0	Setting Performance Targets for the Asia Pacific Region	Singapore
WP/20 <b>Revision 1</b>	3.0	Updating the Asia and Pacific Seamless Air Navigation Systems (ANS) Plan	Secretariat
WP/21	2	Recent Developments in ICAO on International Aviation and Environmental Protection	Secretariat
WP/22	3.2	Environmental Benefits Achieved from the Implementation of Enhanced Wake Turbulence Separation at the Hong Kong International Airport	Hong Kong, China
WP/23	3.2	User-Preferred Route (UPR) Implementation in Indonesia	Indonesia

### LIST OF INFORMATION PAPERS

Paper No.	Agenda Item	Title	Presented by
<b>INFORMATION PAPERS</b>			
IP/01	—	List of Papers	Secretariat
IP/02	3.1	Technology-Enabled Workforce in Supporting Post-COVID-19 Air Traffic Recovery at Hong Kong International Airport	Hong Kong, China
IP/03	3.2	Indonesia Update on Implementation of National Air Navigation Plan	Indonesia
IP/04 <b>Withdrawn</b>	3.2	Progress of User-Preferred Route (UPR) Implementation in Indonesia	Indonesia
IP/05	3.2	AIS-AIM Update	DPRK
IP/06	3.4	Managing Changes to Spectrum Use for Safe Coexistence	the United States
IP/07	3.5	The ICAO Asia/Pacific Volcanic Ash Exercise 22/01	Indonesia
IP/08 <b>Revision 1</b>	4	Rectification of APANPIRG AN Deficiency AP-MET-23	Solomon Islands
IP/09	4	Update on Efforts by Timor-Leste to Eliminate Its ANS Deficiencies as Assessed by ICAO USOAP Audit	Timor-Leste
IP/10	3.4	CNS-ATM System Upgrade in Ulaanbaatar FIR	Mongolia
IP/11	3.4	The Implementation of Surveillance Systems in Pyongyang FIR	DPRK
IP/12	2	A41 Endorsement of the 2023-2025 Edition of the Global Aviation Safety Plan	Secretariat
IP/13	3.0	National Airspace and Air Navigation Master Plan Development in Thailand	Thailand

## LIST OF PRESENTATIONS

<b>Presentation No.</b>	<b>Agenda Item</b>	<b>Title</b>	<b>Presented by</b>
<b>PRESENTATIONS</b>			
PPT/01	3.2	Fatigue Risk Management in Air Traffic Services ...an InfoTech Solution	Laminaar
PPT/02	6	ICAO e-Library and Aviation Data Analytics Dashboards	Secretariat

-----

**APPENDIX 2****TERMS OF REFERENCE OF ASIA PACIFIC AIR NAVIGATION  
PLANNING AND IMPLEMENTATION REGIONAL GROUPS (APANPIRG)**

*[Approved by the President of the ICAO Council on 20 April 2020]*

**1. MEMBERSHIP**

1.1 All ICAO Contracting States, and Territories recognized by ICAO, within the area of accreditation of the ICAO Asia Pacific Regional Office and States of service providers in this air navigation region and part of this region's Air Navigation Plan, shall be members of the planning and implementation regional group (PIRG) established for Asia Pacific Region.

**2. PARTICIPATION**

2.1 In addition to States, the importance of a collaborative and proactive role by airspace users, international and regional organizations, and industry should be recognized due to their involvement in the rapid pace of technological development, expertise and other opportunities for sharing of resources.

2.2 PIRG meetings are open to all members. Each State/Territory member should be represented by a senior-level delegate nominated by the State/Territory, preferably from the civil aviation authority (CAA) in order to support related policy-making within the State. A delegate may be supported by an alternate delegate and/or advisers with the requisite technical knowledge in the subject matters under consideration.

2.3 The CAAs should be supported by service providers (such as air navigation services providers, airport, operators, meteorological service providers, etc.) as advisers.

2.4 States located outside the area of accreditation of the ICAO Regional Offices concerned can be invited on a case-by-case basis and in accordance with the *Regional Office Manual* to attend as observers.

2.5 International organizations recognized by the ICAO Council to participate in ICAO meetings should participate, as observers, in the PIRG meetings, and be encouraged to do so. Other stakeholders may be invited as observers, when required, to contribute to the work of the PIRG.

2.6 The participation of industry stakeholders should take into account relevant capabilities such as an involvement in the rapid pace of technological development, specific knowledge and expertise, and other opportunities including sharing of resources.

2.7 Civil aviation commissions/conferences in particular the Arab Civil Aviation Organization, African Civil Aviation Commission, European Civil Aviation Conference and Latin American Civil Aviation Commission, may be invited to participate in the work of the PIRGs.

2.8 The members and observers will serve as partners in PIRGs, and their joint commitment is fundamental for success in improving implementation and safety worldwide.

2.9 PIRG meetings should be live-streamed, to the extent possible, to enable additional State participants to follow the proceedings.

### 3. WORKING ARRANGEMENTS

#### 3.1 Structure

3.1.1 PIRGs have the obligation to apply the most effective and efficient organizational structure and meeting modalities that best suit the characteristics of each region's implementation work programme while maintaining to the extent possible, alignment with these Terms of Reference, the regional work programme and the Global Air Navigation Plan (GANP).

3.1.2 The ICAO Regional Director(s) will serve as the Secretary of the PIRG. Wherever two Regional Directors are involved, they will periodically rotate between serving as Secretary of the PIRG and regional aviation safety group (RASG) to balance the Secretariat responsibilities between these two regional groups. The Secretary of the PIRG, in coordination with the Secretary of the RASG, will establish the date, methodology and the procedure to be applied for the rotation.

3.1.3 The organization of the PIRG should address global and region-specific air navigation-related matters, and meetings should be closely coordinated between the PIRG and RASG chairpersons and the Secretariat. PIRG and RASG meetings should be held back-to-back or combined to facilitate coordination and to ensure the efficient use of resources.

3.1.4 The PIRG shall be administered by a chairperson and one or two vice-chairpersons elected from the State-nominated delegates present. The PIRG will establish the cycle of elections.

3.1.5 The PIRG will build on the work already done by States, ICAO Regional Offices and existing regional and sub-regional organizations to support the development, maintenance and implementation of an air navigation plan for the region(s).

3.1.6 PIRG contributory bodies may be created by the PIRG to discharge the PIRG work programme by working on defined subjects requiring detailed technical expertise. A contributory body shall only be formed when it has been clearly established that it is able to make a substantial contribution to the required work. A contributory body will be dissolved by the PIRG when it has completed its assigned tasks or if the tasks cannot be usefully continued.

3.1.7 Invitations to PIRG meetings must be issued at least three months in advance of the meeting to assist States to plan participation.

3.1.8 The Secretariat will review and update the PIRG Handbook periodically, and as required, to ensure a result-oriented approach.

3.1.9 Where the meeting is held in more than one ICAO working language, interpretation services shall be made available to facilitate participation in the deliberations and adoption of the report by all participants.

3.1.10 States, international organizations and industry are invited to submit working papers, research works, etc. in order to enhance the work of the PIRG and its contributory bodies. To ensure proper time for consideration and good decision-making, the Secretary should ensure that all working papers are available at least fourteen days prior to the start of the meeting for consideration.

#### 3.2 Venue

3.2.1 PIRG meetings will be convened in the Regional Offices, to the extent possible, to facilitate proper access by States. Approval to host PIRG meetings outside of the Regional Office must be obtained from the President of the Council.

3.2.2 The Secretary General will ensure the allocation of the necessary financial resources to host PIRG meetings.

3.2.3 PIRG contributory bodies may be convened at a different location, if required, to be determined by the Secretary and Chairperson of the PIRG, and contributory body. Venues shall be chosen with the primary aim of facilitating maximum State attendance.

### 3.3 State role

3.3.1 State CAAs, supported by service providers as necessary, should participate in the work of the PIRG and its contributory bodies to:

- a) ensure the continuous and coherent development and implementation of regional air navigation plans and report back on the key performance indicators (KPIs);
- b) support the regional work programme with participation from the decision-making authority with the technical expertise necessary for the planning and implementation mechanism, thus supporting policy decisions at the State level;
- c) enable coordination, at the national level, between the CAA, service providers and all other concerned stakeholders, and harmonization of the national plans with the regional and global plans;
- d) facilitate the implementation of GANP goals and targets;
- e) report on the status of implementation, within the State, on a regular basis;
- f) plan for basic services to be provided for international civil aviation in accordance with ICAO Standards, within State national plans;
- g) facilitate the development and establishment of Letters of Agreement and bilateral or multilateral agreements;
- h) mitigate deficiencies identified under the uniform methodology for the identification, assessment and reporting of air navigation deficiencies in a timely manner;
- i) embrace a performance-based approach for implementation as highlighted in the Global Plans; and
- j) ensure the inclusion of the regional priorities in the States' national implementation plans to the extent possible.

### 3.4 International organization and industry role

3.4.1 Industry, in particular airspace users, professional associations and organizations (such as Airports Council International, Civil Air Navigation Services Organisation, International Federation of Air Line Pilots' Associations, International Federation of Air Traffic Controllers' Associations, International Air Transport Association, etc.) should participate in the work of the PIRG and its contributory bodies, in order to support air navigation implementation and collaborative decision-making processes, taking into consideration the safety aspects of air navigation services.

3.4.2 Their focus should be on identifying regional requirements and ensuring that their available resources are adequately allocated.

### 3.5 Reporting

3.5.1 The PIRG reports outcomes to the ICAO Council through the Air Navigation Commission (ANC) as facilitated by the ICAO Secretariat.

3.5.2 PIRG meeting reports should be provided in a standardized format to the governing bodies of ICAO to identify regional and emerging challenges, and shall include as a minimum:

- a) a brief history of the meeting (duration and agenda);
- b) a list of meeting participants, affiliation and number of attendees;
- c) a list of conclusions and decisions with a description of their rationale (what, when, why and how);
- d) common implementation challenges identified amongst PIRG members and possible solutions, assistance required and estimated timelines to resolve, if applicable, by sub-region;
- e) identification of and recommendations on particular actions or enhancements that would require consideration by the ANC and Council to address particular challenges, including the need for amendment proposals to global provisions and guidance materials submitted by States;
- f) a list of issues cross-referenced to actions to be taken by ICAO Headquarters and/or Regional Offices;
- g) based on the GANP, and associated KPIs and tools, report to the extent possible on the status of implementation of air navigation goals, targets and indicators, including the priorities set by the region in their regional air navigation plans exploring the use of regional dashboards to facilitate monitoring regional progress being made;
- h) a list of items for coordination with the RASG and a concise summary of the outcome of related discussions;
- i) air navigation deficiencies identified and timelines for mitigation thereof; and
- j) the work programme and future actions to be taken by the PIRG.

3.5.3 A technical officer from Headquarters (Air Navigation Bureau) will participate and provide support to the meeting and subsequently arrange for the presentation of reports, in coordination with the Regional Office(s) and chairpersons of the PIRG, to the ANC and Council for review and harmonization.

3.5.4 The final PIRG report will be approved at the end of the meeting. Where the report requires translation, it will be made available within fifteen working days of the meeting closure.

3.5.5 Headquarters will provide feedback to the PIRGs highlighting the actions taken by the ANC and Council related to their previous meeting outcomes.

3.5.6 When a PIRG does not meet during the annual reporting cycle of the consolidated report on PIRGs and RASGs to the Council, the Secretary of the regional group must nevertheless report implementation progress, as well as difficulties experienced, for inclusion in the report.

#### 4. GLOBAL PLANS

4.1 In regard to Global Plans, the PIRG shall:

- a) support implementation by States of the *Global Air Navigation Plan* (GANP, Doc 9750) taking into account aspects of the *Global Aviation Safety Plan* (GASP, Doc 10004) and Global Aviation Security Plan (GASeP) by ensuring effective coordination and cooperation between all States and stakeholders;
- b) monitor and report the progress on the implementation by States of the GANP, and the regional objectives and priorities;
- c) ensure continuous and coherent development of the regional air navigation plan, *Regional Supplementary Procedures* (Doc 7030) and other relevant regional documentation, and propose amendments to reflect the changes in operational requirements in a manner that is harmonized with adjacent regions, consistent with ICAO Standards and Recommended Practises (SARPs), Procedures for Air Navigation Services (PANS) and the GANP;
- d) provide feedback on the GANP implementation and propose amendments to the Global Plans as necessary to keep pace with the latest developments and ensure harmonization with regional and national plans;
- e) in line with the GANP and regional priorities, identify specific deficiencies in the air navigation field, and propose mitigating actions and timelines to resolve deficiencies; and
- f) verify the provision of air navigation facilities and services in accordance with global and regional requirements.

#### 5. REGIONAL ACTIVITIES

5.1 In regard to regional activities, the PIRG shall:

- a) serve as a regional cooperative forum that determines regional priorities, develops and maintains the regional air navigation plan and associated work programme based on the GANP and relevant ICAO Provisions;
- b) facilitate the development and implementation by States of air navigation systems and services as identified in the regional air navigation plan and Doc 7030;
- c) monitor and report on the status of implementation by States of the required air navigation facilities, services and procedures in the region, and identify the associated difficulties and deficiencies to be brought to the attention of the Council;

- d) facilitate the development and implementation of corrective action plans by States to resolve identified deficiencies, where necessary;
- e) identify and report on regional and emerging air navigation challenges experienced that affect implementation of ICAO global provisions by States and measures undertaken or recommended to effectively address them;
- f) facilitate the development and implementation of regional and national air navigation plans by States; and
- g) assist Member States with guidance to implement complex aviation systems.

## 6. PIRG COORDINATION

6.1 In regard to coordination, the PIRG shall:

- a) coordinate safety issues with the respective RASG;
- b) foster cooperation, information exchange, sharing of experiences and best practices among States and stakeholders;
- c) provide a platform for regional coordination and cooperation amongst States and stakeholders for the continuous improvement of air navigation systems in the region with due consideration to harmonization of developments and deployments, intra- and interregional coordination, and interoperability;
- d) ensure that all air navigation activities at the regional and sub-regional level are properly coordinated amongst role players to avoid duplication of efforts;
- e) identify security, environmental and economic issues that may affect the operation of the air navigation system, and inform ICAO Secretariat accordingly for action; and
- f) through the PIRG Secretary, inform the Directors General of Civil Aviation and related civil aviation commission/conferences of PIRG meeting results.

## 7. INTERREGIONAL COORDINATION

7.1 The PIRG shall:

- a) ensure interregional coordination through formal and informal mechanisms, including the participation in meetings established for the purpose of coordinating PIRG and RASG activities, the GANP, regional air navigation plans and regional supplementary procedures; and
- b) ensure coordination with informal groups, such as the South Atlantic Group, Informal South Pacific ATS Coordination Group and Informal Pacific ATS Coordination Group, to assure harmonized planning and smooth transition through regional interface areas.

7.2 ICAO Headquarters shall arrange a global coordination meeting between all PIRG and RASG chairpersons and secretaries on a biennial basis.

## 8. EXPANSION OF TERMS OF REFERENCE

8.1 The Terms of Reference above serve for APANPIRG operations and may be further expanded by APANPIRG, as required, to maintain the flexibility and efficiency of APANPIRG work. Additional terms of reference adopted by APANPIRG must be approved by the President of the Council and be included in the APANPIRG Handbooks as a PIRG specific supplement.

-----





**ATTACHMENT 5** to the APANPIRG/33 Report  
**APANPIRG/33 Conclusions/Decisions – Action Plan**

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date
(1)	(2)	(3)	(4)	(5)	(6)
		<p><u>Notes:-</u></p> <p>*<b>Champion States</b> - States with 100% aerodrome certification, without APANPIRG Air Navigation Deficiencies and having achieved USOAP EI score more than 75%</p> <p>**<b>Champion Industries</b> – Certified aerodromes with good safety records and positive safety culture, and Industry Partners, Associations of Aerodrome Operators</p>			
<b>C 33/4 A &amp; B</b>	<b>State Action Plan for Establishment and Implementation of WHMP - Generic Template</b>	<p>That, Asia/Pacific States are urged to:</p> <ul style="list-style-type: none"> <li>• Develop “State Action Plan for Establishment and Implementation of WHMP” in accordance with the generic template in <b>Appendix C to the Report on Agenda Item 3.1</b> assigning State responsible entities and targeted implementation dates (milestones); and</li> <li>• Commence to execute the State Action Plan the latest from first quarter of 2023, and in accordance with the proposed targeted implementation date (milestone) and complete all actions by 2026.</li> </ul>	<p>ICAO RO</p> <p>APAC States and Administrations</p>	<p>State Letter</p> <p>Action in accordance with the Conclusion.</p>	<p>January 2023</p> <p>As soon as practicable</p>

**ATTACHMENT 5** to the APANPIRG/33 Report  
**APANPIRG/33 Conclusions/Decisions – Action Plan**

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date
(1)	(2)	(3)	(4)	(5)	(6)
C 33/5  A & B	<b>Provide clear direction on Doc 7030 Regional SUPPs publication requirements</b>	That, ICAO provides clear direction on which separation minima require Doc 7030 Regional SUPPS publication to provide consistency in the information published in the different ICAO Regions.	ICAO RO	IOM to HQ	January 2023
C 33/6  A & B	<b>Revised Amendment of the Management Service Agreement for CRV project (RAS14801)</b>	<p>Recognizing that ICAO Technical Cooperation Bureau satisfactorily completed all the defined work items in the initial Management Service Agreement (MSA) and Project Document of RAS14801, that the required payments were settled, and that in end 2016, all the requirements of both parties have been fully completed and closed on record, That,</p> <p>i) all Pioneer States are encouraged to counter-sign the <b>Revised amended Pro Document provided in Appendix A to Agenda Item 3.4;</b></p> <p>ii) any Pioneer State not countersigning is entitled to get its share of the remaining fund balance back. and</p> <p>iii) a Pioneer State for which a direct CRV connection is not considered feasible in 2017 by the selected vendor is entitled to get its initial contribution in full.</p>	<p>ICAO RO</p> <p>APAC Pioneer States and Administrations</p>	<p>State Letter</p> <p>Signed MSA from all pioneer States to whom letter will be send.</p>	<p>January 2023</p> <p>February 2023</p>

**ATTACHMENT 5** to the APANPIRG/33 Report  
**APANPIRG/33 Conclusions/Decisions – Action Plan**

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date
(1)	(2)	(3)	(4)	(5)	(6)
C 33/7  A & B	<b>Extension of CRV Contract for one year</b>	<p>a) Recognizing that as per current contract, all authorities shall join the CRV project and sign the relevant Service Contract(s) with PCCWG with the billing start date on or before <b>31 December 2022</b> to not impose additional charges by the service provider and based on the survey responses of 2022, many Member States are in process to join CRV which may not be completed by December 2022, it is recommended to extend <b>current CRV contract for one year</b>.</p> <p>b) If agreed to extend, as per amended CRV contract, all authorities shall join the CRV program and sign the relevant Service Contract(s) with PCCWG with the billing start date on or before <b>31 December 2023</b> to not impose additional charges by the service provider.</p> <p>c) After the extension, the CRV contract expiry date will be <b>31 December 2028</b>.</p>	<p>ICAO RO</p> <p>APAC States and Administrations</p>	<p>State Letter</p> <p>Action in accordance with the Conclusion.</p>	<p>January 2023</p> <p>Not Applicable</p>
D 33/8  A & B	<b>Harmonization of Timelines for SWIM- related Initiatives</b>	To feedback to the ICAO Air Navigation Commission Technical Panels for a need to harmonize the implementation timelines of SWIM-related initiatives.	ICAO RO	Email to HQ <b>Sent on 6 December 2022</b>	December 2022

**ATTACHMENT 5** to the APANPIRG/33 Report  
**APANPIRG/33 Conclusions/Decisions – Action Plan**

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date
(1)	(2)	(3)	(4)	(5)	(6)
C 33/9  A & B	<b>The Asia-Pacific SWIM Implementation Timeframe and inclusion of the Asia/Pacific SWIM Implementation in the Asia/Pacific Seamless ANS Plan</b>	<ol style="list-style-type: none"> <li>1. To set the timeframe for the implementation of SWIM in the Asia-Pacific region to be between 2024 and 2030, with 2030 being the target timeline for implementation completion.</li> <li>2. To include SWIM implementation in the next edition of the Asia/Pacific Seamless ANS Plan.</li> </ol>	ICAO RO	Email to HQ <b>Sent on 6 December 2022</b>	December 2022
C 33/10  A & B	<b>Planning Principle for Aeronautical Frequency Bands of 108-117.975 MHz, 960-1215 MHz and 117.975-137 MHz</b>	That, Doc 9718, Handbook on Radio Frequency Spectrum Requirements for Civil Aviation, Volume II, Second Edition – 2022, is adopted as the planning principle for aeronautical facilities and services operating in the aeronautical frequency bands of 108-117.975 MHz, 960- 1215 MHz and 117.975- 137 MHz in APAC.	ICAO RO  APAC States and Administrations	State Letter and Frequency Finder upgrading  Action in accordance with the Conclusion	January 2023  As soon as practicable
C 33/11  A & B	<b>Revised Surveillance Strategy for the APAC Region</b>	That, the Revised Surveillance Strategy for the APAC Region provided in <b>Appendix D to Agenda Item 3.4</b> be adopted.	ICAO RO  APAC States and Administrations	State Letter  Action in accordance with the Conclusion.	January 2023  As soon as practicable

**ATTACHMENT 5** to the APANPIRG/33 Report  
**APANPIRG/33 Conclusions/Decisions – Action Plan**

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target Date
(1)	(2)	(3)	(4)	(5)	(6)
C 33/12  A & B	<b>WAFS, SADIS and WIFS upgrades</b>	<p>That, users of WAFS, SADIS and WIFS are invited to:</p> <p>a) familiarise themselves with the proposed WAFS data and technical changes planned for November 2023 and 2024;</p> <p>b) discuss the upcoming changes with their technical departments and make plans for how their organisation could adapt to these technological changes;</p> <p>c) get involved in trying out the new test/beta application programming interfaces (APIs) once they become available in late 2022 or 2023.</p>	<p>ICAO RO</p> <p>APAC States and Administrations</p>	<p>State Letter</p> <p>Action in accordance with the Conclusion.</p>	<p>January 2023</p> <p>As soon as practicable</p>
C 33/13  A & B	<b>0.25-degree WAFS hazard data</b>	<p>That, users of WAFS, SADIS and WIFS are urged to, if not already done so, integrate the 0.25-degree WAFS hazard data (for cumulonimbus, icing and turbulence) into their systems and software before November 2023.</p>	<p>ICAO RO</p> <p>APAC States and Administrations</p>	<p>State Letter</p> <p>Action in accordance with the Conclusion.</p>	<p>January 2023</p> <p>As soon as practicable</p>

