



ICAO

*International Civil Aviation Organization*

**The Combined Tenth Meeting of the South Asia/Indian Ocean ATM Coordination Group (SAIOACG/10) and Twenty—Seventh Meeting of the South East Asia ATS Coordination Group (SEACG/27)**

Video Teleconference, 29 March – 02 April 2021

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## **Agenda Item 4: Implementation of CNS/ATM Systems**

### **REGIONAL AIR NAVIGATION PLAN UPDATE**

(Presented by the Secretariat)

#### **SUMMARY**

This paper presents an update on the electronic Air Navigation Plan (eANP) for the Asia/Pacific, which was intended to replace ICAO Doc. 9673. Meeting participants are invited to review the data affecting their administration and provide feedback to ICAO on the data's accuracy.

## **1. INTRODUCTION**

1.1 The Asia/Pacific Regional Electronic Air Navigation Plan (eANP) Volume I and II (State letters Ref.: T 11/2.1 – AP034/16 and T 11/2.1 – AP051/16 referred), had adopted a common, new ANP template, which had been approved by the ICAO Council for use by all ICAO Regions. The ANP containing Volume I and II is currently at <http://www.icao.int/APAC/Pages/APAC-eANP.aspx>.

## **2. DISCUSSION**

### Background

2.1 States should note that with the advent of the eANP making ICAO Doc. 9673 – *Asia and Pacific Regions Regional Air Navigation Plan* redundant, and noting that Doc. 9673 did not provide a legal description of the FIRs in the first place, it is very important for States to understand that this process of checking, alignment and validation is crucial if they would like a formal basis for their FIRs.

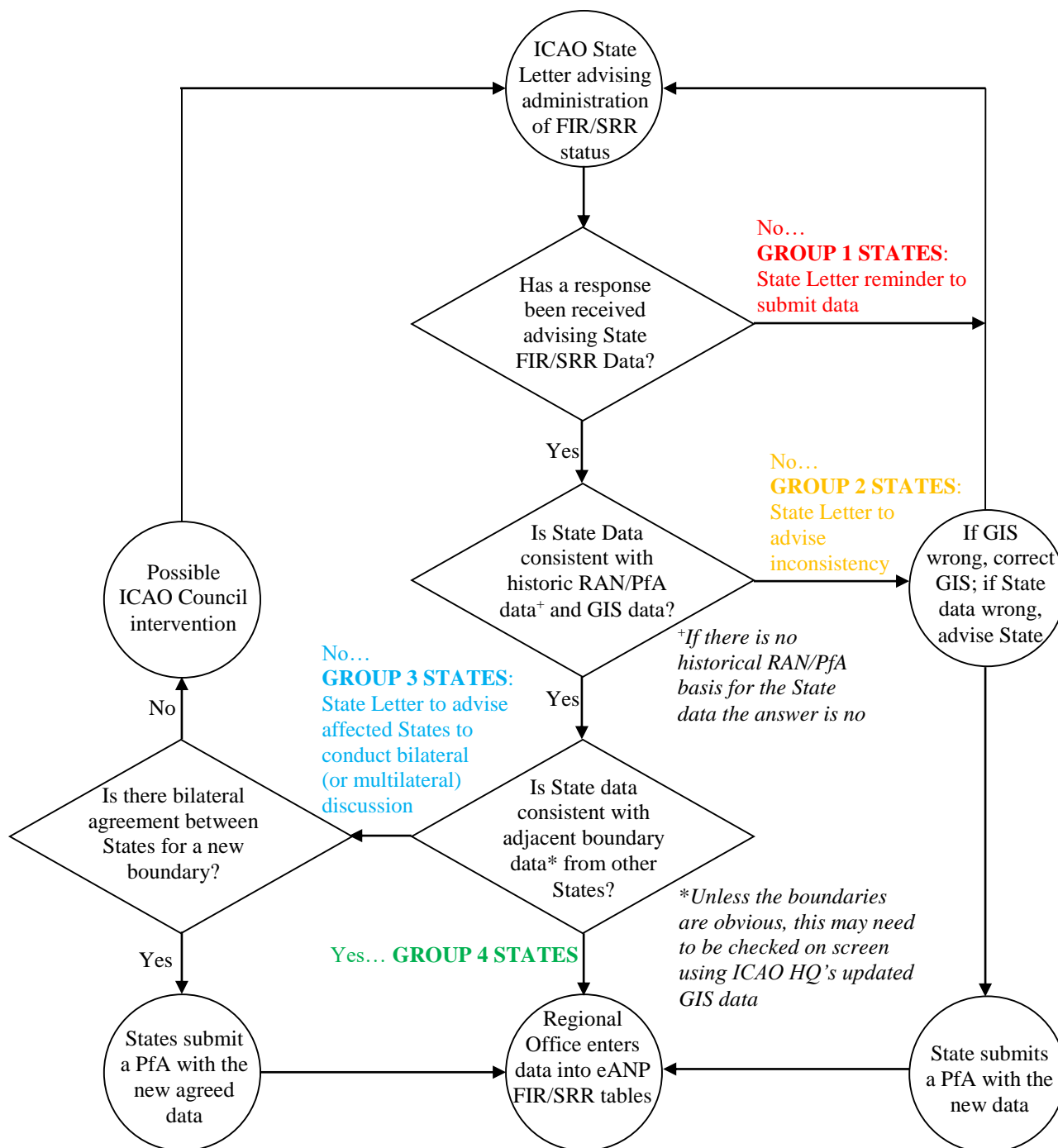
2.2 As Flight Information Regions (FIRs) were considerably more difficult to establish than Search and Rescue Regions (SRRs) with issues such as air navigation charges and the establishment of Special Use Airspace (SUA) being factors for States, the review of FIRs was being conducted first. In addition, many SRRs were of similar dimensions as their associated FIRs, so this would be an easier task if the FIR dimensions were already established.

2.3 The Proposal for Amendment (PfA) process for FIRs and SRRs are now the same process of approval in the ANP Volume I (approval of the Council). ICAO anticipates that the SRR Table will be completed by October 2021, to be entered into the ANP by APANPIRG/32.

### Flight Information and Search and Rescue Regions Review

2.4 Four State Letters had been issued on this matter and after some delays and due to the on-going pandemic; the review of the Flight Information Regions (FIRs) was expected to be completed in April 2021. Currently, all States had responded to the State Letters (**Attachment A**).

2.5 **Figure 1** is a flow diagram detailing the verifications steps before entry into the ANP.



**Figure 1:** eANP FIR/SRR Review Process Flow Diagram

2.6 In the event of anomalies, States were urged to confirm whether the draft data was correct or not. The intention was to clarify any anomalies, so they could be then compared to the ICAO data (**Attachment B – FIRs, Attachment C – SRRs**).

2.7 Regarding the SRR data, a large number of SRRs appear to have data anomalies but may be the same dimensions as the associated FIR, so it was decided to focus on the FIR descriptions first. Some States have provided data as well as PfA for the SRR, however requests from the ICAO Regional Office for the SRR charts have not been responded to. As the SRR data and FIR data were different, new charts for SRR are required.

2.8 Thus, the data in **Attachment C** (SRR Descriptions) does not have the same level of maturity as that in **Attachment B** (FIR Descriptions), as many of the SRR dimensions may be copied after the correct data for the FIR is established. However, those SRRs which are noted to be the same as the FIR with no anomalies have the draft lateral dimensions inserted already.

2.9 It should be noted that **Attachment D** provides a summary of FIR status, and **Attachment E** (SRRs) provide details of the historical data available at the Regional Office for each amendment that was approved either by a Regional Air Navigation (RAN) meeting or a Proposal for Amendment (PFA) to the Regional Air Navigation Plan.

2.10 After informal consultation had indicated no significant issues, a total of 31 FIRs had been approved by ICAO HQ and their PfAs circulated to APAC States and International Organisations. Where a formal objection had not been received, the PfAs had been subsequently entered into the eANP Table ATM I-1 (**Attachment F**) after approval by the President of the Council.

2.11 As a result of the global review, a previously unknown inconsistency had been discovered between the Fukuoka FIR (Japan) and the Khabarovsk FIR (Russian Federation), which required bilateral discussions between the States concerned. It should be noted that APAC was the first – and to our knowledge the only ICAO Regional conducting this challenging task.

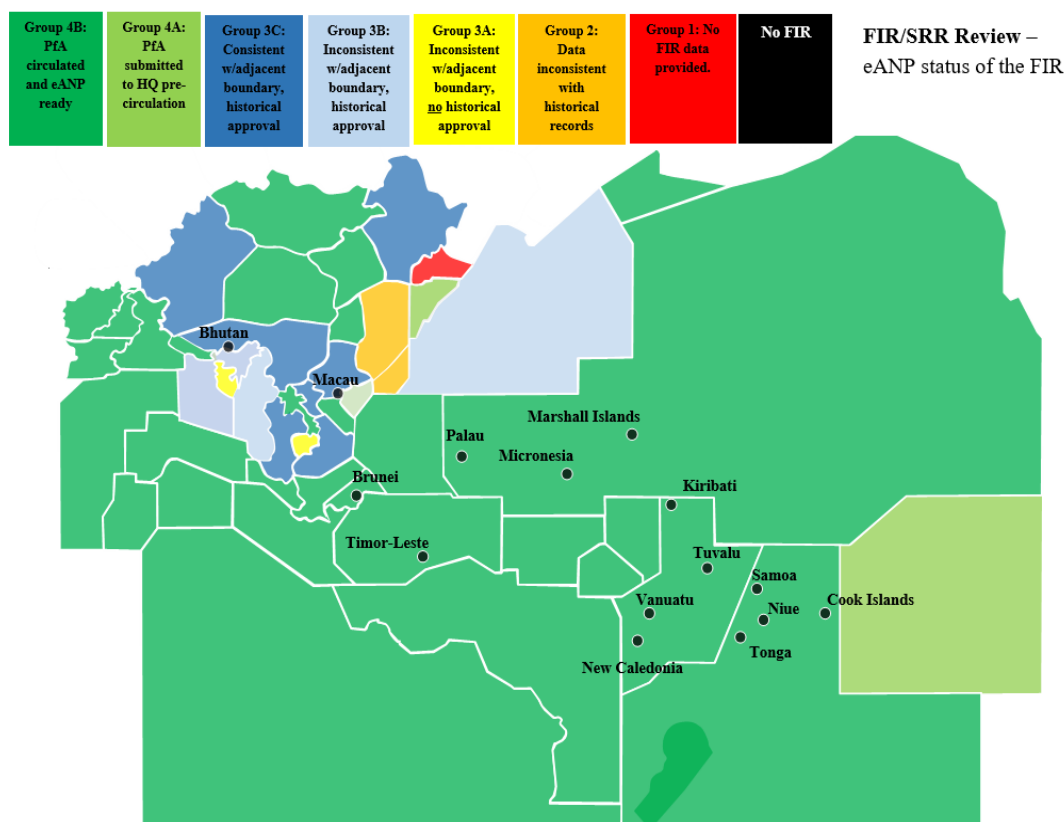
2.12 During the Thirty First Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/31) (VTC, 14-16 December 2020), ICAO had noted that there were issues in four areas affecting the resolution of 11 FIRs affecting progress, each with a political dimension. Thus, it was appropriate for APANPIRG to be involved in terms of overseeing the process to be used to resolve the issues. The areas are as follows:

- a. one coordinate between the Lahore/Karachi FIRs and the Delhi FIR (ICAO proposes to resolve this by bilateral negotiation between India and Pakistan as the national border is between the two coordinates each nation proposes, noting that a consequential minor amendment of the Karachi FIR would be needed to align the boundaries after the Lahore/Delhi coordinate had been determined (**Attachment G**));
- b. two coordinates, one coordinate between the Dhaka and Kolkata FIRs and one between the Dhaka and Yangon FIRs, at the point where the common national boundaries meet the shoreline (ICAO proposes to resolve this by bilateral negotiation between India and Bangladesh, and between Bangladesh and Myanmar, noting that discussion through ‘diplomatic’ channels may hinder progress due to the possible time taken when this was not a matter of sovereign airspace but service delivery, thus the bilateral discussion should be conducted at an operational/technical level (**Attachment H**));
- c. one single coordinate between the Russian Federation’s Khabarovsk FIR and the Fukuoka FIR (ICAO proposes to discuss this with the EUR/NAT Office as suggested by ICAO HQ in order to conduct bilateral discussion between the Russian Federation and Japan, with the two ROs supporting as required (**Attachment I**)); and
- d. a narrow sliver of airspace claimed by Cambodia in the Gulf of Thailand based on three coordinates, affecting the Bangkok, Phnom Penh and Ho Chi Minh FIRs (ICAO proposes to conduct this with a trilateral discussion between the States concerned, noting that this is international airspace and the two options presented by ICAO in **Attachment J**).

2.13 Some States had submitted major amendments to their FIRs during the review process. These will only be processed if it was change that only affected the national airspace and not the neighbouring airspace, or if all parties agreed with the change proposal before submission to ICAO.

2.14 The FIR/SRR Table would be progressively updated in the Regional Air Navigation Plan until the data review from States was expected to be completed about October 2021.

2.15 Once published, States would need to file a PfA for any change to the Air Navigation Plan.



**Figure 2:** FIR Review Status, March 2021

2.16 The following seven PfAs were approved by President of the Council and will be incorporated in the next consolidated amendment of the eANP:

- Melbourne FIR (Australia);
- Chennai FIR (India);
- Mumbai FIR (India);
- Auckland Oceanic FIR (New Zealand);
- New Zealand FIR (New Zealand);
- Karachi FIR (Pakistan); and
- Colombo FIR (Sri Lanka)

2.17 As a result of recent efforts by the States concerned, the following twenty-three PfAs had been circulated to ICAO HQ for validation and were approved by HQ to circulate the PfA for comment/agreement/objection from States/Administrations concerned:

- Kabul FIR (Afghanistan);
- Brisbane FIR (Australia);
- Beijing, Lanzhou, Sanya, Wuhan FIRs (China);

- Delhi FIR (India);
- Jakarta, Ujung Pandang FIRs (Indonesia)
- Nadi FIR (Fiji);
- Vientiane FIR (Lao PDR);
- Kuala Lumpur, Kota Kinabalu FIRs (Malaysia);
- Male FIR (Maldives);
- Ulaanbaatar FIR (Mongolia);
- Nauru FIR (Nauru);
- Kathmandu FIR (Nepal);
- Port Moresby FIR (Papua New Guinea);
- Manila FIR (Philippines);
- Singapore FIR (Singapore);
- Honiara FIR (Solomon Islands) and
- Anchorage Oceanic, Oakland Oceanic FIRs (United States).

2.18 For the following three FIRs, PfAs had been received by the ICAO Regional Office and are expected to be circulated to ICAO HQ shortly:

- Kunming, Shenyang and Urumqi FIRs (China)

2.19 The following eleven PfAs had already been submitted to the Regional Office, but still required clarifications:

- Dhaka FIR (Bangladesh);
- Phnom Penh FIR (Cambodia);
- Guangzhou, Hong Kong FIRs (China);
- Kolkata FIR (India);
- Fukuoka FIR (Japan);
- Lahore FIR (Pakistan);
- Yangon FIR (Myanmar);
- Bangkok FIR (Thailand); and
- Ha Noi, Ho Chi Minh FIRs (Viet Nam).

#### eANP Timetable

2.20 At present the ANP is in the form of pdfs on the website. The electronic ANP (eANP) with full hyperlink and html functionality was expected to be available at the end of 2021.

#### PfA Process

2.21 A Proposal for Amendment (PfA) Template is provided on the ICAO Asia/Pacific website at: <http://www.icao.int/APAC/APAC%20eANP/ANP%20Amendment%20Template.doc>.

2.22 States should note that PfAs for either the ANP or the Regional Supplementary Procedures (Document 7030) should include a list of all the States of Registry of any airspace or airport or facility user that may be affected by the items that were proposed for amendment.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) provide SRR data and charts to the Regional Office; and
- c) discuss any relevant matters as appropriate.

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**FIR/SRR Review Consultation**

<b>STATE (in grey, no response)</b>	<b>FIR Name</b>	<b>Location Indicator</b>	<b>1<sup>st</sup> round response to SL ref.: T 3/10.1.3 – AP043/15 (ATM)</b>	<b>2<sup>nd</sup> round response to SL ref.: T 3/3.7 – AP153/15 (ATM)</b>	<b>3<sup>rd</sup> round response to SL ref.: T 3/3.7 – AP039/16 (ATM)</b>	<b>4<sup>th</sup> round response to SL ref.: T 3/3.6, T 3/3.7, T 3/3.8 – AP105/18 (ATM)</b>	<b>SRR Name</b>	<b>1<sup>st</sup> round response to SL ref.: T 3/3.7 – AP153/15 (ATM)</b>	<b>2<sup>nd</sup> round response to SL ref.: T 3/3.7 – AP039/16 (ATM)</b>	<b>3<sup>rd</sup> round response to SL ref.: T 3/3.6, T 3/3.7, T 3/3.8 – AP105/18 (ATM)</b>	<b>4<sup>th</sup> round response to SL ref.: T 3/3.6, T 3/3.7, T 3/3.8 – AP128/19 (ATM)</b>
Afghanistan	KABUL	OAKX	No	No	No	Yes	KABUL	No	No	Yes	Yes
Australia	BRISBANE	YBBB	Yes	Yes	Yes	Yes	AUSTRALIA	Yes	Yes	Yes	Yes
Australia	MELBOURNE	YMMM	Yes	Yes	Yes	Yes	--	--	--	--	--
Bangladesh	DHAKA	VGFR	Yes	No	Yes	Yes	DHAKA	No	Yes	Yes	Yes
Cambodia	PHNOM PENH	VDPP	No	No	No	Yes	PHNOM PENH	No	No	Yes	Yes
China	BEIJING	ZBPE	Yes	No	Yes	Yes	BEIJING	No	Yes	Yes	Yes
China	GUANGZHOU	ZGZU	Yes	No	Yes	Yes	GUANGZHOU	No	Yes	Yes	Yes
China	HONG KONG	VHHK	Yes	Yes	Yes	Yes	HONG KONG	Yes	Yes	Yes	Yes
China	KUNMING	ZPKM	Yes	No	Yes	Yes	KUNMING	No	Yes	Yes	Yes
China	LANZHOU	ZLHW	Yes	No	Yes	Yes	LANZHOU	No	Yes	Yes	Yes
China	SANYA	ZJSA	Yes	No	Yes	Yes	SANYA	No	Yes	Yes	Yes
China	SHANGHAI	ZYSH	Yes	No	Yes	Yes	SHANGHAI	No	Yes	Yes	Yes
China	SHENYANG	ZYSH	Yes	No	Yes	Yes	SHENYANG	No	Yes	Yes	Yes
China	URUMQI	ZWUQ	Yes	No	Yes	Yes	URUMQI	No	Yes	Yes	Yes
China	WUHAN	ZHWH	Yes	No	Yes	Yes	WUHAN	No	Yes	Yes	Yes
China	TAIBEI	RCAA	No	No	No	Yes	TAIBEI	No	No	Yes	Yes
DPR Korea	PYONGYANG	ZKKP	No	No	Yes	No	PYONGYANG	No	Yes	No	No
French Polynesia (France)	TAHITI	NTTT	No	No	Yes	Yes	TAHITI	No	Yes	Yes	Yes
India	CHENNAI	VOMF	Yes	No	Yes	Yes	CHENNAI	No	Yes	Yes	Yes
India	DELHI	VIDF	Yes	No	Yes	Yes	DELHI	No	Yes	Yes	Yes
India	KOLKATA	VECF	Yes	No	Yes	Yes	KOLKATA	No	Yes	Yes	Yes
India	MUMBAI	VABF	Yes	No	Yes	Yes	MUMBAI	No	Yes	Yes	Yes
Indonesia	JAKARTA	WIIF	No	No	No	Yes	JAKARTA	No		Yes	Yes
Indonesia	UJUNG PANDANG	WAAF	No	No	No	Yes	UJUNG PANDANG	No	No	Yes	Yes
Indonesia	--	--	--	--	--	--	BALI	No	No	--	Yes
Indonesia	--	--	--	--	--	--	BLAK	No	No	--	Yes
Fiji	NADI	NFFF			Yes	Yes	NADI	No	Yes	Yes	Yes
Japan	FUKUOKA	RJJJ	Yes	Yes	Yes	Yes	TOKYO	Yes	Yes	Yes	Yes
Japan	--	--	--	--	--	--	NAHA	No	No	--	Yes
Lao PDR	VIENTIANE	VLAO	No	No	No	Yes	VIENTIANE	No	No	Yes	Yes

STATE (in grey, no response)	FIR Name	Location Indicator	1 <sup>st</sup> round response to SL ref.: T 3/10.1.3 – AP043/15 (ATM)	2 <sup>nd</sup> round response to SL ref.: T 3/3.7 – AP153/15 (ATM)	3 <sup>rd</sup> round response to SL ref.: T 3/3.7 – AP039/16 (ATM)	4 <sup>th</sup> round response to SL ref.: T 3/3.6, T 3/3.7, T 3/3.8 – AP105/18 (ATM)	SRR Name	1 <sup>st</sup> round response to SL ref.: T 3/3.7 – AP153/15 (ATM)	2 <sup>nd</sup> round response to SL ref.: T 3/3.7 – AP039/16 (ATM)	3 <sup>rd</sup> round response to SL ref.: T 3/3.6, T 3/3.7, T 3/3.8 – AP105/18 (ATM)	4 <sup>th</sup> round response to SL ref.: T 3/3.6, T 3/3.7, T 3/3.8 – AP128/19 (ATM)
Malaysia	KOTA KINABALU	WBFC	No	No	Yes	Yes	KOTA KINABALU	No	No	Yes	Yes
Malaysia	KUALA LUMPUR	WMFC	No	No	Yes	Yes	KUALA LUMPUR			Yes	Yes
Maldives	MALE	VRMF	No	Yes	Yes	Yes	MALE	Yes	Yes	Yes	Yes
Mongolia	ULAANBAATAR	ZMUB	No	No	No	Yes	ULAANBAATAR	No	No	Yes	Yes
Myanmar	YANGON	VYYY	No	No	Yes	Yes	YANGON	No	No	Yes	Yes
Nauru	NAURU	ANAU	No	No	Yes	Yes	NAURU	No	Yes	No	Yes
Nepal	KATHMANDU	VNSM	No	No	Yes	Yes	KATHMANDU	No	Yes	Yes	Yes
New Zealand	AUCKLAND OCEANIC	NZZO	Yes	Yes	Yes	Yes	NEW ZEALAND	Yes	Yes	Yes	Yes
New Zealand	NEW ZEALAND	NZZC	Yes	Yes	Yes	Yes		--	--	--	--
Pakistan	KARACHI	OPKR	No	No	Yes	Yes	KARACHI	No	Yes	Yes	Yes
Pakistan	LAHORE	OPLR	No	No	Yes	Yes	LAHORE	No	Yes	Yes	Yes
Papua New Guinea	PORT MORESBY	AYPM	No	No	No	Yes	PORT MORESBY	No	No	Yes	Yes
Philippines	MANILA	RPHI	No	Yes	Yes	Yes	MANILA	Yes	Yes	Yes	Yes
Republic of Korea	INCHEON	RKRR	No	Yes	No	Yes	INCHEON	Yes	No	Yes	Yes
Singapore	SINGAPORE	WSJC	Yes	Yes	Yes	Yes	SINGAPORE	Yes	Yes	Yes	Yes
Solomon Islands	HONIARA	AGGG	No	No	No	Yes	HONIARA			No	Yes
Sri Lanka	COLOMBO	VCCF	No	No	Yes	Yes	COLOMBO		Yes	Yes	Yes
Thailand	BANGKOK	VTBB	Yes	No	Yes	Yes	BANGKOK	Yes		Yes	Yes
United States of America	ANCHORAGE OCEANIC	PAZA	Yes	Yes	Yes	Yes	HONOLULU	Yes	Yes	Yes	Yes
United States of America	OAKLAND OCEANIC	KZAK	Yes	Yes	Yes	Yes	JUNEAU	Yes	Yes	Yes	Yes
United States of America	--	--	--	--	--	--	ELMENDORF	No	No	--	Yes
United States of America	--	--	--	--	--	--	SAN FRANCISCO	No	No	--	Yes
Viet Nam	HANOI	VVVV	Yes	No	No	Yes	HANOI	Yes	No	Yes	Yes
Viet Nam	HO CHI MINH	VVTS	Yes	No	No	Yes	HO CHI MINH	Yes	No	Yes	Yes

Follow up action:

S/No.	STATE	FIR	Remarks
01	Afghanistan	Kabul	PfA 19/25-ATM approved by HQ. PfA circulated to States on 17 March 2020.
02	Australia	Melbourne Brisbane	PfA 19/36-ATM (Melbourne) approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan. PfA 20/17-ATM (Brisbane) approved by HQ. PfA circulated to States on 20 Aug 2020.
03	Bangladesh	Dhaka	PfA submitted to APRO. Coordination with India and Myanmar required.
04	Cambodia	Phnom Penh	PfA submitted to APRO. Coordination with Viet Nam and Thailand required.
05	China	Beijing, Guangzhou, Hong Kong, Kunming, Lanzhou, Sanya, Shanghai, Shenyang, Urumqi, Wuhan, Taipei	PfA 20/13-ATM (Sanya) approved by HQ. Circulated to States on 12 March 2020. PfA 20/14 (Wuhan) approved by HQ. Circulated to States on 6 Mar 2020. PfA 20/15-ATM (Beijing) and PfA 20/16-ATM (Lanzhou) approved by HQ. Circulated to States on 11 Sep 2020. PfA 20/12-ATM (Hong Kong) is on hold. The boundary between Guangzhou and Hong Kong FIRs is being further enhanced.
06	DPR Korea	Pyongyang	No FIR data provided.
07	French Polynesia	Tahiti	PfA 19/10-ATM circulated to HQ on 10 Jun 2019. PfA on hold due to possible extension of FIR.
08	India	Chennai, Delhi, Mumbai Kolkata	PfA 19/32-ATM (Mumbai) and PfA 19/33-ATM (Chennai) approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan. PfA 19/34-ATM (Delhi) approved by HQ. PfA circulated to States on 12 March 2020. Kolkata PfA submitted to APRO. Coordination with Bangladesh and Bhutan required.
09	Indonesia	Jakarta Ujung Pandang	PfA 20/32-ATM (Jakarta) and PfA 20/33-ATM (Ujung Pandang) approved by HQ. PfAs circulated to States on 13 Nov 2020.
10	Fiji	Nadi	PfA 19/11-ATM approved by HQ. PfA circulated to States on 12 March 2020
11	Japan	Fukuoka	PfA 19/35-ATM circulated to HQ. PfA on hold due to discrepancies with Russia/Khabarovsk FIR.
12	Lao PDR	Vientiane	PfA 20/44-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.
13	Malaysia	Kuala Lumpur Kota Kinabalu	PfA 20/34-ATM (Kuala Lumpur) and PfA 20/35-ATM (Kota Kinabalu) approved by HQ. PfAs circulated to States on 13 Nov 2020.
14	Maldives	Male	PfA 19/09-ATM approved by HQ. Circulated to States on 17 March 2020.
15	Mongolia	Ulaanbaatar	PfA 19/21-ATM approved by HQ. Circulated to States on 17 March 2020.

S/No.	STATE	FIR	Remarks
16	Myanmar	Yangon	PfA submitted to APRO. Coordination with Thailand and Bangladesh required.
17	Nauru	Nauru	PfA 20/45-ATM approved by HQ. PfA circulated to States on 10 December 2020.
18	Nepal	Kathmandu	PfA 20/37-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.
19	New Zealand	New Zealand Auckland Oceanic	PfA 19/26-ATM (New Zealand) and 19/27-ATM (Auckland Oceanic) approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.
20	Pakistan	Karachi Lahore	PfA 19/15-ATM (Lahore FIR) approved by HQ. PfAs circulated to States on 12 March 2020. 19/17-ATM (Karachi FIR) approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.
21	Papua New Guinea	Port Moresby	PfA 20/19-ATM (Port Moresby) approved by HQ. PfA circulated to States on 21 Aug 2020.
22	Philippines	Manila	PfA 19/12-ATM approved by HQ. PfA circulated to States on 12 March 2020.
23	Republic of Korea	Incheon	PfA 19/07-ATM circulated to HQ on 19 Apr 2019. PfA on hold.
24	Singapore	Singapore	PfA 20/36-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.
25	Solomon Islands	Honiara	PfA 20/18-ATM approved by HQ. PfA circulated to States on 20 Aug 2020.
26	Sri Lanka	Colombo	PfA 19/31 ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.
27	Thailand	Bangkok	PfA submitted to APRO. Coordination with Viet Nam and Cambodia required.
28	USA	Oakland Oceanic Anchorage Oceanic	PfA 19/29-ATM (Anchorage Oceanic) and 19/30-ATM (Oakland Oceanic) approved HQ. PfAs circulated to States on 12 March 2020.
29	Viet Nam	Ha Noi Ho Chi Minh	PfA submitted to APRO. Coordination with Cambodia and Thailand required.

**FLIGHT INFORMATION REGIONS (FIR)/UPPER INFORMATION REGIONS (UIR) IN THE ASIA/PACIFIC REGIONS – WORKING DRAFT**  
**EXPLANATION OF THE TABLE**

- Column 1. Name of the FIR/UIR / Location Indicator according to Doc 7910
- Column 2. Description of FIR/UIR lateral limits;
- Describe separately in the table the limits of the UIRs if they are not similar to the FIRs limits.
- Column 3. Remarks — additional information, if necessary.
- Describe vertical limits if necessary.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Anchorage Oceanic FIR (PAZA)	544009N 170000E 513000N 170000E 510500N 1734400E 500800N 1763400W 454200N 1625500E 500500N 1590000E 540000N 1690000E 544009N 170000E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/29-ATM approved by HQ. PfA circulated to States on 12 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Auckland Oceanic FIR (NZZO)	300000S 1310000W 900000S 0000000E 300000S 1630000E 280000S 1680000E 250000S 1712500E 250000S 1800000E 153245.1S 1754031.2W 050000S 1710000W 050000S 1570000W 300000S 1570000W 300000S 1310000W excluding the New Zealand FIR.	SFC to 999

Comments:

- a. PfA APAC-I 19/27-ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Bangkok FIR (VTBB)	113900N 1025430E 100000N 1021500E 070000N 1030000E 064500N 1024000E 061500N 1021500E thence following the national boundary to 063000N 0993000E 071500N 0980000E 100000N 0963000E 095600N 0983300E thence following the national boundary to 113900N 1025430E.	SFC to UNL

Comments:

- a. PfA submitted. Coordination with Viet Nam and Cambodia required.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Beijing FIR (ZBPE)	A line joining 452317N 1152115E 431442N 1173100E 421500N 1180500E 395400N 1192100E 393000N 1195200E 381500N 1200000E 380700N 1193300E 372912N 1173000E 364000N 1152400E 361900N 1143000E 360400N 1134836E 343200N 1101500E 353200N 1101800E 372800N 1104400E 382200N 1103600E 384400N 1094100E 392600N 1083000E 401842N 1070012E 404300N 1055500E 414451N 1051345E thence following the national boundary of the People's Republic of China to 452317N 1152115E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/15-ATM approved by HQ. PfA circulated to States on 11 Sep 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Brisbane FIR (YBBB)</b>	140000S 1611500E 174000S 1630000E 450000S 1630000E 450000S 1500000E 443357S 1500000E 435103S 1503953E 430000S 1510000E 381119S 1501914E 365643S 1504503E then along the anticlockwise arc of a circle of 120.00NM radius centred on 345700S 1503200E (NWA/TAC) to 351859S 1525550E 342822S 1514929E then along the anticlockwise arc of a circle of 45NM radius centred on 335638S 1511057E (SY/DME) to 332539S 1503147E 320540S 1484951E 290000S 1463200E 290000S 1433000E 261331S 1382324E 221751S 1363807E 215132S 1362225E 212959S 1361944E 211209S 1315024E 231313S 1282749E 232349S 1260332E 213119S 1243304E 200318S 1214022E 190000S 1201500E 140813S 1150832E 120000S 1143000E 120000S 1232000E 092000S 1265000E	SFC to UNL

	070000S 1350000E 095000S 1394000E 095000S 1410000E 093700S 1410200E 091542S 1420330E 091248S 1420624E 091154S 1420836E 091200S 1421018E 091124S 1421254E 091136S 1421406E 091354S 1421624E 091606S 1422042E 092206S 1422942E 092148S 1423130E 092236S 1423330E 092124S 1423530E 092024S 1424142E 092018S 1424354E 091924S 1424818E 090800S 1435230E 092400S 1441400E 095634S 1440521E 100515S 1435852E 100850S 1435711E 101751S 1435445E 102244S 1435525E 102638S 1435424E 103110S 1435441E 103457S 1435536E 104114S 1435810E 104641S 1435959E 105205S 1440046E 105900S 1440200E 110224S 1440233E 110637S 1440351E 111107S 1440421E 111413S 1440338E 111510S 1440307E	
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	112935S 1440131E 113000S 1440136E 114330S 1440420E 120000S 1440000E 120000S 1550000E 140000S 1550000E 140000S 1611500E.	
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Comments:

- a. PfA APAC-I 20/17-ATM approved by HQ. PfA circulated to States on 20 Aug 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Chennai FIR (VOMF)	A line joining 133000N 0942500E 060000N 0942500E 060000N 0920000E 100000N 0820000E 100000N 0800000E 060000N 0780000E 060000N 0740000E 073000N 0740000E 073000N 0720000E 150000N 0720000E 150000N 0733500E 161700N 0730000E 162200N 0733400E 162600N 0741100E 163600N 0752800E 164000N 0760000E 180000N 0760000E 191900N 0760000E 194300N 0771000E 184300N 0820000E 184100N 0824900E 154200N 0855400E 140000N 0920000E 133000N 0942500E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/33-ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Colombo FIR (VCCF)	A line joining 060000N 0920000E 020000S 0920000E 020000S 0780000E 060000N 0780000E 100000N 0800000E 100000N 0820000E 060000N 0920000E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/31-ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Delhi FIR (VIDF)	A line joining 273424N 0824443E 270922N 0813300E 264531N 0805340E 262401N 0801154E 251701N 0794954E 253601N 0793554E 250801N 0785955E 250001N 0790455E 250000N 0705500E thence following the national boundary to 273424N 0824443E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/34-ATM approved by HQ. PfA circulated to States on 12 March 2020.

<b>FIR/UIR Location Indicator</b>	<b>Lateral limits coordinates</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>Dhaka FIR (VGFR)</b>	A straight line joining N 20 22 46.1, E 092 24 09.1; to N 21 26 43.6, E 089 10 59.2 ; then to N 21 38 40.2, E 089 09 20.0; Thence following the national boundary line to N 20 22 46.1, E 092 24 09.1	SFC to UNL

Comments:

- a. Bangladesh has requested to revise and update Dhaka FIR to cover the country’s entire territorial airspace.
- b. PfA submitted. Coordination with Myanmar and India required.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Fukuoka FIR (RJJJ)</b>	500500N 1590000E 454200N 1625500E 430000N 1650000E 270000N 1650000E 270000N 1550000E 210000N 1550000E 210000N 1213000E 233000N 1240000E 300000N 1240000E 300000N 1252500E 323000N 1265000E 323000N 1273000E 344000N 1291000E 373000N 1330000E 380000N 1330000E 383800N 1333900E 403000N 1355600E 454500N 1400000E 454500N 1420000E 443000N 1454000E then between Hokkaido and Kunashiri Islands from 443000N 1454000E to 432000N 1455000E 430000N 1465000E 450000N 1500000E 500500N 1590000E.	

Comments:

- a. PfA APAC-I 19/35-ATM circulated to HQ on 30 October 2019.
- b. Russia is seeking clarifications concerning common boundary with different coordinates published in respective AIPs. PfA on hold.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Guangzhou FIR (ZGZU)	A line joining 290200N 1143400E 264200N 1135700E 260300N 1140700E 254600N 1145224E 250530N 1152500E 244024N 1152430E 242200N 1164200E 234200N 1171100E 233000N 1173000E 230000N 1173000E 222430N 1154000E 222430N 1143000E thence following the Hong Kong Special Administrative Region boundary to 222130N 1135200E a line joining 222130N 1135200E 193000N 1113000E 203000N 1113000E 203000N 1080300E 211235N 1081231E thence following the national boundary of the People’s Republic of China to 231145N 1053230E a line joining 231145N 1053230E 243900N 1054800E 254200N 1073900E 263500N 1091900E 284700N 1092300E 293100N 1092400E 292300N 1130712E	SFC to UNL

	290200N 1143400E.	
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Comments:

- a. PfA submitted. Boundary between Hong Kong and Guangzhou FIRs is being further enhanced.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Ha Noi FIR (VVHN)	211235N 1081231E 203000N 1080330E 195733N 1075547E 191604N 1071123E 182028N 1074053E 172510N 1084437E 171300N 1080000E 170000N 1071800E 170000N 1063258E thence following national boundary to 212812.5N 1080604.3E 212801.7N 1080601.6E 212750.1N 1080557.7E 212739.5N 1080551.5E 212728.2N 1080539.9E 212723.1N 1080538.8E 212708.2N 1080543.7E 211632N 1080805E 211235N 1081231E.	SFC to UNL

Comments:

- a. PfA submitted. Coordination with Cambodia and Thailand required.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Ho Chi Minh FIR (VVHM)	143000N 1140000E 103000N 1140000E 070000N 1080000E 070000N 1030000E 090000N 1024000E 102200N 1034400E thence following national boundary to 170000N 1063258E 171300N 1080000E 170000N 1071800E 172510N 1084437E 143000N 1120000E 143000N 1140000E.	SFC to UNL

Comments:

- a. PfA submitted. Coordination with Cambodia and Thailand required.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Hong Kong FIR (VHHK)	A line joining 230000N 1173000E 210000N 1173000E 164000N 1140000E 193000N 1113000E 222130N 1135200E thence following the Hong Kong Special Administrative Region boundary to 222430N 1143000E a line joining 222430N 1143000E 222430N 1154000E 230000N 1173000E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/12-ATM approved by HQ. PfA circulated to States on 12 March 2020.
- b. Hong Kong FIR PfA is on hold. The boundary between Guangzhou and Hong Kong FIRs is being further enhanced.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Honiara FIR (AGGG)</b>	103000S 1664500E 114800S 1665200E 140000S 1630000E 140000S 1550000E 071900S 1550000E 065533S 1553808E 065533S 1554137E 065050S 1555523E 064104S 1560136E 063950S 1560223E 063300S 1560209E 045000S 1590000E 045000S 1600000E 103000S 1664500E.	SFC to UNL  Remarks: The responsibility for provision of air traffic services in Honiara Flight Information Region (FIR) between FL 245 and FL 600, is vested with Brisbane Area Control Centre (ACC).

Comments:

- a. PFA APAC-I 20/18-ATM approved by HQ. PFA circulated to States on 20 Aug 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Incheon FIR (RKRR)	383800N 1333900E 380000N 1330000E 373000N 1330000E 344000N 1291000E 323000N 1273000E 323000N 1265000E 300000N 1252500E 300000N 1240000E 380000N 1240000E 380000N 1245100E following the national boundary to 383800N 1282200E a line joining 383800N 1282200E 383800N 1333900E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/07-ATM circulated to HQ on 19 Apr 2019. PfA on hold.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Jakarta FIR (WIIF)</b>	011300N 1133500E 030000S 1102300E 082000S 1102300E 120000S 1143000E 120000S 1070000E 020000S 0920000E 060000N 0920000E 060000N 0973000E 013900N 1021000E thence following the arc of a circle radius 100NM center at 012136N 1034825E anticlockwise to 000000N/S 1044600E 000000N/S 1051000E 005000S 1060000E 000000N/S 1080000E 000000N/S 1090000E 001500N 1090000E thence along Kalimantan west coast to the national boundary with Malaysia until 011300N 1133500E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/32-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.

<b>FIR/UIR Location Indicator</b>	<b>Lateral limits coordinates</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>Kabul FIR (OAKX)</b>	371105N 0674723E thence following the national boundary to 371105N 0674723E.	SFL to FL510

Comments:

- a. PfA APAC-I 19/25-ATM approved by HQ. PfA circulated to States on 17 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Karachi FIR (OPKR)	300000N 0733500E thence following the national boundary to 234000N 0681000E 233000N 0682300E 233000N 0643000E 233000N 0612000E 244000N 0612000E 251040N 0613550E thence following the national boundary to 300000N 0661900E 300000N 0733500E.	SFC to UNL

Comments:

- a. PFA APAC-I 19/17-ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.

<b>FIR/UIR Location Indicator</b>	<b>Lateral limits coordinates</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>Kathmandu FIR (VNSM)</b>	302645N 0813744E thence following the national boundary to 302645N 0813744E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/37-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Kolkata FIR (VECF)	A line joining 210000N 0920000E 140000N 0920000E 154200N 0855400E 184100N 0824900E 184300N 0820000E 213009N 0803537E 222850N 0802116E 231049N 0800334E 250001N 0790455E 250801N 0785955E 253601N 0793554E 251701N 0794954E 262401N 0801154E 264531N 0805340E 270922N 0813300E 273424N 0824443E thence following the national boundary to 213800N 0891000E a line joining 213800N 0891000E 210000N 0920000E.	SFC to UNL

Comments:

- a. PfA submitted. Coordination with India and Bhutan required.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Kota Kinabalu FIR (WBFC)	082500N 1163000E 073000N 1173000E 040000N 1200000E 040000N 1180000E thence along the national boundary of Malaysia and Indonesia to 010000N 1085400E 010000N 1083000E 021500N 1083000E 082500N 1163000E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/35-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Kuala Lumpur FIR	064500N 1024000E 045000N 1034400E 034000N 1034000E 023600N 1044500E 012000N 1042000E thence along 012000N to the national boundary of Malaysia/Singapore; thence along the national boundary of Malaysia/Singapore to 011700N 1033600E 011300N 1033000E 013900N 1021000E 060000N 0973000E 060000N 0942500E 100000N 0942500E 100000N 0963000E 071500N 0980000E 063000N 0993000E thence along the national boundary of Malaysia/Thailand to 061500N 1021500E 064500N 1024000E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/34-ATM approved by HQ. PfA circulated to States on 12 Nov 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Kunming FIR (ZPKM)</b>	A line joining 315400N 1093100E 293100N 1092400E 284700N 1092300E 263500N 1091900E 254200N 1073900E 243900N 1054800E 231145N 1053230E thence following the national boundary of the People’s Republic of China to 302630N 0813730E; a line joining 302630N 0813730E 321806N 0840318E 362500N 0872300E 360200N 0890100E 325200N 0915500E 320600N 0970000E 314900N 0983500E 325500N 1014200E 333500N 1035300E 322700N 1054900E 321400N 1072400E 315400N 1093100E.	SFC to UNL

Comments:

- a. PfA submitted. Validation of the coordinates in progress.

<b>FIR/UIR Location Indicator</b>	<b>Lateral limits coordinates</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>Lahore FIR (OPLR)</b>	A line joining 300000N 0733500E 300000N 0661900E thence following the national boundary to 300000N 0733500E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/15-ATM approved by HQ. PfA circulated to States on 12 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Lanzhou FIR (ZLHW)	A line joining 414451N 1051345E 404300N 1055500E 401842N 1070012E 392600N 1083000E 384400N 1094100E 382200N 1103600E 372800N 1104400E 353200N 1101800E 343200N 1101500E 340500N 1102900E 333200N 1105200E 315400N 1093100E 321400N 1072400E 322700N 1054900E 333500N 1035300E 325500N 1014200E 314900N 0983500E 320600N 0970000E 325200N 0915500E 360200N 0890100E 362500N 0872300E 382100N 0901300E 414800N 0950800E 425500N 0962014E thence following the national boundary of the People’s Republic of China to 414451N 1051345E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/16-ATM approved by HQ. PfA circulated to States on 11 Sep 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Male FIR (VRMF)	A line joining 060000N 0780000E 020000S 0780000E 060000S 0750000E 060000S 0680000E 000000N/S 0680000E 030500N 0700000E 073000N 0700000E 073000N 0720000E 073000N 0740000E 060000N 0740000E 060000N 0780000E.	SFC to UNL

Comments:

- a. Pfa APAC-I 19/09-ATM approved by HQ. Pfa circulated to States on 17 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Manila FIR (RPHI)	A line joining 210000N 130000E 070000N 130000E 040000N 132320E 040000N 120000E 073000N 117300E 082500N 116300E 103000N 114000E 164000N 114000E 210000N 117300E 210000N 130000E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/12-ATM approved by HQ. PfA circulated to States on 12 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Melbourne FIR (YMMM)	290000S 1463200E 320540S 1484951E 332539S 1503147E then along the clockwise arc of a circle of 45NM radius centred on 335638S 1511057E (SY/DME) to 342822S 1514929E 351859S 1525550E then along the clockwise arc of a circle of 120NM radius centred on 345700S 1503200E (NWA/TAC) to 365643S 1504503E 381119S 1501914E 430000S 1510000E 435103S 1503953E 443357S 1500000E 450000S 1500000E 450000S 1630000E 900000S 0000000W/E (South Pole) 060000S 0750000E 020000S 0780000E 020000S 0920000E 120000S 1070000E 120000S 1143000E 140813S 1150832E 190000S 1201500E 200318S 1214022E 213119S 1243304E 232349S 1260332E 231313S 1282749E 211209S 1315024E 212959S 1361944E 215132S 1362225E 221751S 1363807E 261331S 1382324E	SFC to UNL

	290000S 1433000E 290000S 1463200E.	
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Comments:

- a. PfA APAC-I 19/36-ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Mumbai FIR (VABF)	A line joining 250001N 0790455E 231049N 0800334E 222850N 0802116E 213009N 0803537E 184300N 0820000E 194300N 0771000E 191900N 0760000E 180000N 0760000E 164000N 0760000E 163600N 0752800E 162600N 0741100E 162200N 0733400E 161700N 0730000E 150000N 0733500E 150000N 0720000E 073000N 0720000E 073000N 0700000E 030500N 0700000E 000000N 0680000E 060000S 0680000E 060000S 0600000E 194800N 0600000E 233000N 0643000E then eastwards along 233000N parallel until it meets the Indian coastline at 233000N 0682300E then northwards along the coastline to 234000N 0681000E; then along the common border between India and Pakistan to 250000N 0705500E 250001N 0790455E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/32-ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Nadi FIR (NFFF)	A line joining 033000N 180000E 050000S 180000W 050000S 171000W 153245.1S 1754031.2W 250000S 180000E 250000S 171250E 280000S 168000E 300000S 163000E 174000S 163000E 140000S 161150E 140000S 163000E 100000S 170000E 033000N 170000E 033000N 180000E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/11-ATM approved by HQ. PfA circulated to States on 12 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Nauru FIR (ANAU)	033000N 1700000E 100000S 1700000E 114800S 1665200E 103000S 1664500E 045000S 1600000E 033000N 1600000E 033000N 1700000E.	SFC to UNL

Comments:

- a. Pfa APAC-1 20/45-ATM approved by HQ. Circulated to States on 10 December 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>New Zealand FIR (NZZC)</b>	382700S 1794400W 425130S 1750300E 480900S 1681600E 455500S 1651800E 412527S 1702324E the arc of a circle of 200 NM radius centered on 412014S 1744901.1E from 412527S 1702324E clockwise to 390738.1S 1713321.7E the arc of a circle of 200 NM radius centered on 370016.7S 1744849.1E from 390738.1S 1713321.7E clockwise to 373229.5S 1785608.9E a line joining 373229.5S 1785608.9E 382700S 1794400W.	SFC to 999

Comments:

- a. PfA APAC-I 19/26-ATM approved by President of the Council. Ready for incorporation in the next consolidated amendment of Regional Air Navigational Plan.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Oakland Oceanic (KZAK)	A line joining 524300N 1350000W 510000N 1334500W 482000N 1280000W 450000N 1263000W 405900N 1265400W 405000N 1270000W 373023N 1270000W 362743N 1265600W 353000N 1255000W 360000N 1241200W 343000N 1231500W 304500N 1205000W 300000N 1200000W 033000N 1200000W 033000N 1450000W 050000S 1550000W 050000S 1800000W/E 033000N 1800000W/E 033000N 1600000E 000000N/S 1600000E 000000N/S 1410000E 033000N 1410000E 033000N 1330000E 070000N 1300000E 210000N 1300000E 210000N 1550000E 270000N 1550000E 270000N 1650000E 430000N 1650000E 454200N 1625500E 500800N 1763400W 512400N 1674900W 533000N 1600000W 560000N 1530000W	SFC to UNL

	564542N 1514500W 532203N 1370000W 524300N 1350000W.	
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Comments:

- a. PfA APAC-I 19/30-ATM approved by HQ. PfA circulated to States on 12 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Phnom Penh FIR (VDPP)	102200N 1034400E 090000N 1024000E 070000N 1030000E 100000N 1021500E 113900N 1025430E thence following the national boundary to 102200N 1034400E.	SFC to UNL

Comments:

- a. PfA submitted was not supported by APAC Regional Office due to the sliver of airspace between Ho Chi Minh and Bangkok FIRs.
- b. Coordination with Thailand and Viet Nam required.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Port Moresby FIR (AYPM)</b>	000000N/S 1600000E 045000S 1600000E 045000S 1590000E 063300S 1560209E 063950S 1560223E 064104S 1560136E 065050S 1555523E 065533S 1554137E 065533S 1553808E 071900S 1550000E 120000S 1550000E 120000S 1440000E 114330S 1440420E 113000S 1440136E 112935S 1440131E 111510S 1440307E 111413S 1440338E 111107S 1440421E 110637S 1440351E 110224S 1440233E 105900S 1440200E 105205S 1440046E 104641S 1435959E 104114S 1435810E 103457S 1435536E 103110S 1435441E 102638S 1435424E 102244S 1435525E 101751S 1435445E 100850S 1435711E 100515S 1435852E 095634S 1440521E 092400S 1441400E 090800S 1435230E 091924S 1424818E	SFC to UNL

	092018S 1424354E 092024S 1424142E 092124S 1423530E 092236S 1423330E 092148S 1423130E 092206S 1422942E 091606S 1422042E 091354S 1421624E 091136S 1421406E 091124S 1421254E 091200S 1421018E 091154S 1420836E 091248S 1420624E 091542S 1420330E 093700S 1410200E 065334S 1410106E thence following the Fly River to 061914S 1410000E 000000N/S 1410000E 000000N/S 1600000E.	
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Comments:

- a. PfA APAC-I 20/19-ATM approved by HQ. Circulated to States on 21 Aug 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Pyongyang FIR (ZKKP)	403000N 1355600E 383800N 1333900E 383800N 1282200E thence following the national boundary to 380000N 1245100E 38 0000N 1240000E 395100N 1240000E thence following the national boundary to 422500N 1303600E 420900N 1305300E 414000N 1313100E 403000N 1355600E.	SFC to UNL

Comments:

- a. Coordinate 383800N 1282200E is inconsistent with GIS. GIS is showing 383800N 1282500E.
- b. Coordinate 380000N 1245100E is not shown in GIS.
- c. Confirm coordinate 395100N 1241000E. It is shown in GIS.
- d. Confirm coordinate 422500N 1303600E. It is shown in GIS.
- e. Confirm coordinate 420900N 1305300E. It is shown in GIS.
- f. Coordinate 393000N 1240000E is not shown in GIS.
- g. Coordinate 394941N 1241006E is not shown in GIS.
- h. Coordinate 421730N 1304130E is not shown in GIS.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Sanya FIR (ZJSA)	A line joining 203000N 1113000E 193000N 1113000E 164000N 1140000E 143000N 1140000E 143000N 1120000E 182028N 1074053E 191604N 1071123E 195733N 1075547E 203000N 1080300E 203000N 1113000E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/13-ATM approved by HQ. PfA circulated to States on 12 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Shanghai FIR (ZSHA)	A line joining 380000N 1240000E 323000N 1240000E 323000N 1265000E 290000N 1254900E 290000N 1240000E 262908N 1212656E 250000N 1200000E 230000N 1173000E 233000N 1173000E 234200N 1171100E 242200N 1164200E 244024N 1152430E 250530N 1152500E 254600N 1145224E 260300N 1140700E 264200N 1135700E 290200N 1143400E 300500N 1155600E 325430N 1154848E 343100N 1155430E 351448N 1152700E 364000N 1152400E 372912N 1173000E 380700N 1193300E 381500N 1200000E 381500N 1230000E 380000N 1240000E.	SFC to UNL

Comments:

- a. Historical records show that Shanghai FIR’s eastern boundary is a straight line joining 380000N 1240000E to 290000N 1240000E. The data submitted by China is 380000N 1240000E, 323000N 1240000E, 323000N 1265000E, 290000N 1254900E, 290000N 1240000E.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Shenyang FIR (ZYSH)	394941N 1241006E 380000N 1240000E 381500N 1230000E 381500N 1200000E 393000N 1195200E 395400N 1192100E 421500N 1180500E 431442N 1173100E 452317N 1152115E thence following the national boundary of the People’s Republic of China to 394941N 1241006E.	SFC to UNL

Comments:

- a. PfA submitted. Validation of the coordinates in progress.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Singapore FIR (WSJC)	082500N 1163000E 021500N 1083000E 010000N 1083000E 010000N 1085400E thence along Kalimantan west coast to 001500N 1090000E to 000000N/S 1090000E 000000N/S 1080000E 005000S 1060000E 000000N/S 1051000E 000000N/S 1044600E thence following the arc of a circle radius 100NM centred on Singapore Island 012136N 1034825E clockwise to 013900N 1021000E 011300N 1033000E 011700N 1033600E thence east along the national boundary of Singapore/Malaysia, thence along 012000N to 012000N 1042000E 023600N 1044500E 034000N 1034000E 045000N 1034400E 064500N 1024000E 070000N 1030000E 070000N 1080000E 103000N 1140000E 082500N 1163000E.	SFC to UNL  Remarks: The responsibility for providing air traffic services to flights within the following portions of the Singapore FIR is vested in the Kuala Lumpur ACC:  The airspace between a line from 023600N 1044500E to 020000N 1070000E and thereafter along 020000N, in the south, and a line along 060000N in the north, and from surface level to FL150 west of longitude 105E and from surface level to FL200 east of longitude 105E.

Comments:

- a. PfA APAC-I 20/36-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Tahiti FIR (NTTT)	033000N 1200000W 300000S 1200000W 300000S 1570000W 050000S 1570000W 050000S 1550000W 033000N 1450000W 033000N 1200000W.	SFC to UNL

Comments:

- a. PfA APAC-I 19/10-ATM circulated to HQ on 10 Jun 2019. PfA on hold due to possible extension of FIR.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Taibei FIR (RCAA)	A line joining 290000N 1240000E 290000N 1254900E 260000N 1250000E 253000N 1240000E 233000N 1240000E 210000N 1213000E 210000N 1173000E 230000N 1173000E 250000N 1200000E 262908N 1212656E 290000N 1240000E	SFC to UNL

Comments:

- a. Historical records show that Taibei FIR’s eastern boundary is a straight line joining 290000N 1240000E to 233000N 1240000E. The data submitted by China is 290000N 1240000E, 290000N 1254900E, 260000N 1250000E, 253000N 1240000E, 2330000N 1240000E.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Ujung Pandang (WAAF)	033000N 1410000E 061914S 1410000E thence following the national boundary of Indonesia/Papua New Guinea to 065334S 1410106E 093700S 1410200E 095000S 1410000E 095000S 1394000E 070000S 1350000E 092000S 1265000E 120000S 1232000E 120000S 1143000E 082000S 1102300E 030000S 1102300E 011300N 1133500E thence following the national boundary of Indonesia/Malaysia to 040000N 1180000E 040000N 1323200E 033000N 1330000E 033000N 1410000E.	SFC to UNL

Comments:

- a. Pfa APAC-I 20/33-ATM approved by HQ. Pfa circulated to States on 13 Nov 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Ulanbaatar FIR (ZMUB)	495044.4N 1164249.3E thence following the national boundary to 495044.4N 1164249.3E.	SFC to UNL

Comments:

- a. PfA APAC-I 19/21-ATM approved by HQ. PfA circulated to States on 17 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Urumqi FIR (ZWUQ)	A line joining 425500N 0962014E 414800N 0950800E 382100N 0901300E 362500N 0872300E 321806N 0840318E 302630N 0813730E thence following the national boundary of the People’s Republic of China to N425500N 0962014E.	SFC to UNL

Comments:

- a. PfA submitted. Validation of the coordinates in progress.

<b>FIR/UIR Location Indicator</b>	<b>Lateral limits coordinates</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>Vientiane FIR (VLVT)</b>	170000N 1063258E thence following the national boundary to 170000N 1063258E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/44-ATM approved by HQ. PfA circulated to States on 13 Nov 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Wuhan FIR (ZHWH)</b>	A line joining 364000N 1152400E 351448N 1152700E 343100N 1155430E 325430N 1154848E 300500N 1155600E 290200N 1143400E 292300N 1130712E 293100N 1092400E 315400N 1093100E 333200N 1105200E 340500N 1102900E 343200N 1101500E 360400N 1134836E 361900N 1143000E 364000N 1152400E.	SFC to UNL

Comments:

- a. PfA APAC-I 20/14-ATM approved by HQ. PfA circulated to States on 06 March 2020.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Yangon FIR (VYYF)	A line joining 100000N 0983000E 100000N 0942500E 133000N 0942500E 140000N 0920000E 210000N 0920000E 215700N 0923200E thence following the national boundary to 100000N 0983000E.	SFC to UNL

Comments:

- a. Coordination required with Bangladesh and Thailand for re-alignment of Yangon FIR.

**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS – WORKING DRAFT**

<b>SRR</b>	<b>Lateral Limits Coordinates</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>Kabul SRR</b> (Kabul FIR)	N 30 00 00, E 066 19 00 N 37 12, E 67 47 00; following the national boundary to N 30 00 00, E 066 19 00 N 37 12, E 67 47 00.	
<b>Australia SRR</b> (Brisbane and Melbourne FIRs)	S 06 00 00, E 075 00 00; S 02 00 00, E 078 00 00; S 02 00 00, E 092 00 00; S 12 00 00, E 107 00 00; S 12 00 00, E 123 20 00; S 09 20 00, E 126 50 00; S 07 00 00, E 135 00 00; S 09 50 00, E 139 40 00; S 09 50 00, E 141 00 00; S 09 37 00, E 141 01 00; S 09 16 00, E 142 03 00; then along the Australian EEA boundary S 09 19 00, E 142 48 00; S 09 08 00, E 143 53 00; S 09 24 00, E 144 14 00; S 09 57 00, E 144 05 00; S 10 05 00, E 143 59 00; S 10 09 00, E 143 57 00; S 10 18 00, E 143 55 00; S 10 23 00, E 143 55 00; S 10 27 00, E 143 54 00; S 10 31 00, E 143 55 00; S 10 35 00, E 143 56 00; S 10 47 00, E 144 00 00; S 11 02 00, E 144 03 00; S 11 07 00, E 144 04 00; S 11 11 00, E 144 04 00; S 11 14 00, E 144 04 00; S 11 15 00, E 144 03 00; S 11 30 00, E 144 02 00; S 11 43 00, E 144 04 00; S 12 00 00, E 144 00 00; S 12 00 00, E 155 00 00; S 14 00 00, E 155 00 00; S 14 00 00, E 161 15 00; S 17 40 00, E 163 00 00; S 90 00 00, E 163 00 00; S 90 00 00, E 075 00 00; S 06 00 00, E 075 00 00.	

<p><b>Bali SRR</b> (Ujung Pandang FIR – Bali SRR data not aligned)</p>	<p>No information on record, not all coordinates available on GIS.</p>	
<p><b>Bangkok SRR</b> (Bangkok FIR-SRR data not aligned)</p>	<p>N 11 37 00, E 102 55 00; N 10 00 00, E 102 15 00; N 09 30 00, E 103 45 00; N 07 00 00, E 103 00 00; N 06 15 00, E 102 15 00; N 10 00 00, E 096 30 00; N 07 15 00, E 098 00 00; N 06 30 00, E 099 30 00; N 11 37 00, E 102 55 00.</p>	
<p><b>Beijing SRR</b> (Beijing FIR-SRR data not aligned)</p>	<p>N 45 25 00, E 115 19 00; N 43 15 00, E 117 31 00; N 39 54 00, E 119 21 00; N 39 30 00, E 119 52 00; N 38 15 00, E 120 00 00; N 37 29 00, E 117 30 00; N 36 32 00, E 115 18 00; N 36 21 00, E 114 55 00; N 36 06 00, E 114 21 00; N 34 54 00, E 112 47 00; N 34 00 00, E 110 29 00; N 34 32 00, E 110 15 00; N 35 32 00, E 110 18 00; N 37 28 00, E 110 44 00; N 38 22 00, E 110 36 00; N 38 44 00, E 109 41 00; N 40 20 00, E 107 01 00; N 40 43 00, E 105 55 00; N 41 44 00, E 105 13 00; N 45 25 00, E 115 19 00.</p>	
<p><b>Biak SRR</b> (Ujung Pandang FIR-SRR data not aligned)</p>	<p>No information on record, not all coordinates available on GIS.</p>	
<p><b>Bombay SRR</b> (Mumbai FIR-Bombay SRR data not aligned)</p>	<p>S 06 00 00, E 060 00 00; N 10 42 00, E 060 00 00; N 12 00 00, E 060 00 00; N 19 48 00, E 060 00 00; N 23 30 00, E 064 30 00; N 25 00 00, E 070 55 00; N 25 00 00, E 082 00 00; N 17 15 00, E 082 00 00; N 18 00 00, E 081 00 00; N 18 00 00, E 076 00 00; N 15 00 00, E 076 00 00; N 15 00 00, E 072 00 00; N 07 30 00, E 072 00 00; N 07 30 00, E 070 00 00; N 03 05 00, E 070 00 00;</p>	

	S 06 00 00, E 068 00 00; S 06 00 00, E 060 00 00.	
<b>Calcutta SRR</b> (Kolkata FIR-Calcutta SRR data not aligned)	N 25 38 00, E 089 52 00; N 26 22 00, E 088 02 00; N 21 38 00, E 089 10 00; N 20 00 00, E 092 00 00; N 14 00 00, E 092 00 00; N 16 30 00, E 083 00 00; N 17 15 00, E 082 00 00; N 25 00 00, E 082 00 00; N 25 00 00, E 083 00 00; N 27 10 00, E 083 00 00; N 27 27 00, E 083 40 00; N 27 17 00, E 083 40 00; N 25 38 00, E 089 52 00.	
<b>Colombo SRR</b> (Colombo FIR-SRR data not aligned)	N 10 00 00, E 080 00 00; N 10 00 00, E 082 00 00; N 06 00 00, E 092 00 00; S 02 00 00, E 092 00 00; S 02 00 00, E 078 00 00; N 06 00 00, E 078 00 00; N 06 00 00 E 076 30 00; N 07 00 00 E 078 30 00; N 10 00 00, E 080 00 00.	
<b>Delhi SRR</b> (Delhi FIR)	N 27 25 00, E 083 40 00; inconsistent with GIS and not certain if it is consistent with the national boundary N 27 15 00, E 083 40 00; inconsistent with GIS N 27 10 00, E 083 00 00; N 25 00 00, E 083 00 00; N 25 00 00, E 070 55 00; thence following the national boundary from N 25 00 00, E 070 55 00 to N 27 25 00, E 083 40 00.	
<b>Dhaka SRR</b> (Dhaka FIR-SRR data not aligned)	N 21 00 00, E 092 00 00; N 21 38 00, E 089 10 00; thence following the national boundary from N 21 38 00, E 089 10 00 to N 22 09 00, E 092 37 00; thence from N 22 09 00, E 092 37 00 to N 21 00 00, E 092 00 00.	
<b>Guangzhou SRR</b> (Guangzhou FIR-SRR data not aligned)	N 21 25 00, E 111 30 00; N 20 30 00, E 111 30 00; N 20 30 00, E 108 03 00; thence following the national boundary to	

	<p>N 23 11 00, E 105 32 00;  N 24 39 00, E 105 48 00;  N 25 25 00, E 107 53 00;  N 26 41 00, E 109 12 00;  N 27 53 00, E 109 19 00;  N 29 31 00, E 109 24 00;  N 29 23 00, E 113 06 00;  N 29 02 00, E 114 34 00;  N 26 42 00, E 113 57 00;  N 26 03 00, E 114 07 00;  N 25 07 00, E 114 18 00;  N 24 46 00, E 115 01 00;  N 24 22 00, E 116 42 00;  N 23 42 00, E 117 11 00;  N 23 41 00, E 117 13 00;  thence following the national  boundary to  N 20 30 00, E 108 03 00;  N 20 30 00, E 111 30 00;  N 19 30 00, E 111 30 00;  N 16 40 00, E 114 00 00;  N 14 30 00, E 114 00 00;  N 14 30 00, E 112 00 00;  N 17 25 00, E 108 43 00;  N 18 20 00, E 107 41 00;  N 19 16 00, E 107 11 00;  N 19 57 00, E 107 56 00;  N 21 25 00, E 111 30 00.</p>	
<p><b>Hanoi SRR</b>  (Hanoi FIR-SRR data  not aligned)</p>	<p>N 20 30 00, E 108 03 00;  N 19 57 00, E 107 56 00;  N 19 16 00, E 107 11 00;  N 18 20 00, E 107 41 00;  N 17 25 00, E 108 43 00;  N 17 13 00, E 108 00 00;  N 17 00 00, E 106 34 00;  thence following the national  boundary to  N 23 11 00, E 105 32 00;  thence following the national  boundary to  N 20 30 00, E 108 03 00.</p>	
<p><b>Ho Chi Minh SRR</b>  (Ho Chi Minh FIR-SRR  data not aligned)</p>	<p>N 09 00 00, E 102 40 00;  N 10 14 00, E 103 38 00;  thence following the national  boundary to  N 17 00 00, E 106 34 00;  N 17 13 00, E 108 00 00;  N 17 25 00, E 108 43 00;  N 14 30 00, E 112 00 00;  N 14 30 00, E 114 00 00;  N 10 30 00, E 114 00 00;</p>	

	N 07 00 00, E 108 00 00; N 07 00 00, E 103 00 00; N 09 00 00, E 102 40 00.	
<b>Hong Kong SRR</b> (Hong Kong FIR-SRR data not aligned)	N 23 40 00, E 117 30 00; N 21 00 00, E 117 30 00; N 16 40 00, E 114 00 00; N 19 30 00, E 111 30 00; N 21 25 00, E 111 30 00; thence following the Special Administrative Region boundary to 3NM off-shore and the northern boundary of Macao and the Hong Kong Special Administrative Region to N 23 40 00, E 117 30 00.	
<b>Honiara SRR</b> (Honiara FIR-SRR not aligned)	S 10 30 00, E 166 45 00; S 11 48 00, E 166 52 00; S 14 00 00, E 163 00 00; S 14 00 00, E 161 15 00; S 14 00 00, E 155 00 00; S 12 00 00, E 155 00 00; S 07 19 00, E 155 00 00; S 06 56 00, E 155 36 00; S 06 56 00, E 155 42 00; S 06 51 00, E 155 55 00; S 06 40 00, E 156 02 00; E 06 33 00, E 156 02 00; S 10 30 00, E 166 45 00; S 10 30 00, E 166 45 00.	
<b>Honolulu SRR</b> (Oakland Oceanic FIR – Honolulu SRR not aligned)	N 40 00 00, E 165 00 00; N 27 00 00, E 165 00 00; N 27 00 00, E 155 00 00; N 21 00 00, E 155 00 00; N 21 00 00, E 137 00 00; N 21 00 00, E 130 00 00; N 07 00 00, E 130 00 00; N 04 01 24, E 132 32 58; N 04 01 24, E 132 32 58; N 03 30 00, E 133 00 00; N 03 30 00, E 141 00 00; N/S 00 00 00, E 141 00 00; N/S 00 00 00, E 160 00 00; N 03 30 00, E 160 00 00; N 03 30 00, E 170 00 00; N 03 30 00, W/E 180 00 00; S 05 00 00, W/E 180 00 00; S 05 00 00, W 157 00 00; S 05 00 00, W 155 00 00; N 03 30 00, W 145 00 00; N 03 30 00, W 120 00 00; N 40 00 00, E 165 00 00.	

	<p>N 21 00 00; E 137 00 00  N 21 00 00; E 130 00 00  N/S 00 00 00; E 141 00 00  N/S 00 00 00; E 160 00 00  N 03 30 00; E 170 00 00  S 05 00 00; W/E 180 00 00  S 05 00 00; W 157 00 00</p> <p>Green based on latest info provided but does not align with the previous information.</p>	
<p><b>Jakarta SRR</b> (Jakarta FIR)</p>	<p>N 01 16 00, E 113 37 00;  S 03 00 00, E 110 23 00;  S 08 20 00, E 110 23 00;  S 12 00 00, E 114 30 00;  S 12 00 00, E 110 00 00;  superfluous  S 12 00 00, E 107 00 00;  S 02 00 00, E 092 00 00;  N 06 00 00, E 092 00 00;  N 06 00 00, E 094 25 00;  superfluous  N 06 00 00, E 097 30 00;  N 01 38 00, E 102 20 00; coordinate is inaccurate, should be approx N 01 38 49, E 102 09 54; the arc of a circle of 100 NM centred on Singapore (coordinates?), anti-clockwise from approx N 01 38 49, E 102 09 54 to approx N/S 00 00 00, E 104 46; N/S 00 00 00, E 105 10 00; S 00 50 00, E 106 00 00; N/S 00 00 00, E 108 00 00; missing coordinate  N/S 00 00 00, E 109 10 00; missing coordinate (need to check if it is on the coast); following the coast and the national boundary from N/S 00 00 00, E 109 10 00 to N 01 00 00, E 108 58 00; superfluous  N 01 16 00, E 113 37 00.</p>	
<p><b>Juneau SRR</b> (Anchorage Oceanic FIR-Juneau SRR not aligned)</p>	<p>N 50 05 00, E 159 00 00;  N 43 00 00, E 165 00 00;  N 40 00 00, E 165 00 00;  N 50 05 00, E 159 00 00.</p>	
<p><b>Karachi SRR</b></p>	<p>N 23 30 00, E 061 20 00;  N 24 40 00, E 061 20 00;</p>	

<p>(Karachi FIR-SRR data not aligned)</p>	<p>N 25 10 00, E 061 20 00; N 30 00 00, E 066 19 00; N 30 00 00, E 073 35 00; N 25 00 00, E 070 55 00; N 23 30 00, E 064 30 00; N 23 30 00, E 061 20 00. Check this – there should be mention of a national boundary</p>	
<p><b>Kathmandu SRR</b> (Kathmandu FIR)</p>	<p>N 30 26 00, E 081 37 00; following the national boundary from N 30 26 00, E 081 37 00 to N 27 17 00, E 083 40 00; N 30 26 00, E 081 37 00 N 30 26 00, E 081 37 00.</p>	
<p><b>Kota Kinabalu SRR</b> (Kota Kinabalu FIR)</p>	<p>N 04 00 00, E 120 00 00; N 03 59 12, E 117 54 33; (approx GIS for missing coordinate) thence following the national boundary from N 03 59 12, E 117 54 33 (approx) to N 01 16 00, E 113 37 00; superfluous coordinate thence following the national boundary to N 01 00 00, E 108 58 00; N 01 00 00, E 108 30 00; N 02 00 00, E 108 30 00; superfluous coordinate N 02 15 00, E 108 30 00; N 06 00 00, E 113 15 00; E 113 19 29 according to GIS measurement-check N 08 25 00, E 116 30 00; N 07 30 00, E 117 30 00; N 07 30 00, E 117 30 00; N 04 00 00, E 120 00 00.</p>	
<p><b>Kuala Lumpur SRR</b> (Kuala Lumpur FIR)</p>	<p>N 06 45 00, E 102 40 00; N 06 00 00, E 103 05 00; N 04 50 00, E 103 44 00; N 03 40 00, E 103 40 00; N 02 36 00, E 104 45 00; N 01 20 00, E 104 20 00; thence following the national boundary from N 01 20 00, E 104 20 00 to N 01 13 00, E 103 30 00; N 01 38 00, E 102 20 00; this coordinate appears to be inaccurate should be N 01 38 49, E 102 09 54 (approx); N 06 00 00, E 097 30 00;</p>	

	<p>N 06 00 00, E 094 25 00;  N 10 00 00, E 094 25 00;  N 10 00 00, E 096 00 00;  superfluous  N 10 00 00, E 096 30 00;  N 07 15 00, E 098 00 00;  N 06 27 00, E 099 36 00; N 06 30  08, E 099 29 49; according to  Thailand-check  thence following the national  boundary from N 06 30 08, E 099  29 49 to N 06 15 00, E 102 05 30;  approx –check;  N 06 45 00, E 102 40 00.</p>	
<p><b>Kunming SRR</b>  (Kunming FIR-SRR data  not aligned)</p>	<p>N 31 54 00, E 109 31 00;  N 30 17 00, E 109 29 00;  N 29 31 00, E 109 24 00;  N 27 53 00, E 109 19 00;  N 26 41 00, E 109 12 00;  N 25 25 00, E 107 53 00;  N 24 39 00, E 105 48 00;  N 23 11 00, E 105 32 00;  N 31 54 00, E 109 31 00.</p>	
<p><b>Lahore SRR</b>  (Lahore FIR)</p>	<p>N 30 00 00, E 073 35 00;  N 30 00 00, E 066 19 00;  thence following the national  boundary to  N 30 00 00, E 073 35 00.</p>	
<p><b>Lanzhou SRR</b>  (Lanzhou FIR-SRR data  not aligned)</p>	<p>N 41 44 00, E 105 13 00;  N 40 43 00, E 105 55 00;  N 40 20 00, E 107 01 00;  N 38 44 00, E 109 41 00;  N 38 22 00, E 110 36 00;  N 37 28 00, E 110 44 00;  N 35 32 00, E 110 18 00;  N 34 32 00, E 110 15 00;  N 34 00 00, E 110 29 00;  N 33 32 00, E 110 52 00;  N 31 54 00, E 109 31 00;  N 32 14 00, E 107 24 00;  N 32 27 00, E 105 49 00;  N 32 55 00, E 101 42 00;  N 31 49 00, E 098 35 00;  N 32 00 00, E 097 00 00;  N 32 52 00, E 091 55 00;  N 36 02 00, E 089 01 00;  N 36 25 00, E 087 23 00;  N 38 21 00, E 090 13 00;  N 41 48 00, E 095 08 00;  N 42 55 00, E 096 20 00;  N 32 32 00, E 103 53 00;</p>	

	N 41 44 00, E 105 13 00.	
<b>Madras SRR</b> (Chennai FIR-SRR data not aligned)	N 17 15 00, E 082 00 00; N 16 30 00, E 083 00 00; N 14 00 00, E 092 00 00; N 13 30 00, E 094 25 00; N 11 00 00, E 094 25 00; N 10 00 00, E 096 00 00; N 10 00 00, E 094 25 00; N 06 00 00, E 094 25 00; N 06 00 00, E 092 00 00; N 10 00 00, E 082 00 00; N 10 00 00, E 080 00 00; N 07 00 00, E 078 30 00; N 06 44 00, E 077 57 00; N 06 00 00, E 076 30 00; N 06 00 00, E 076 00 00; N 06 00 00, E 074 00 00; N 07 30 00, E 074 00 00; N 07 30 00, E 072 00 00; N 15 00 00, E 072 00 00; N 15 00 00, E 076 00 00; N 18 00 00, E 076 00 00; N 18 00 00, E 081 00 00; N 17 15 00, E 082 00 00.	
<b>Male SRR</b> (Male FIR-SRR not aligned)	N 06 00 00, E 076 30 00; N 06 00 00, E 078 00 00; S 02 00 00, E 078 00 00; S 06 00 00, E 075 00 00; S 06 00 00, E 068 00 00; N 03 05 00, E 070 00 00; N 07 30 00, E 070 00 00; N 07 30 00, E 072 00 00; N 07 30 00, E 074 00 00; N 06 00 00, E 074 00 00; N 06 00 00, E 076 00 00; N 06 00 00, E 076 30 00.  Second set of data from State inconsistent with GIS: N 08 00 00, E 073 00 00; N 06 00 00, E 078 00 00; S 02 00 00, E 078 00 00; S 06 00 00, E 075 00 00; S 06 00 00, E 068 00 00; S 00 00 00, E 068 00 00.	
<b>Manila SRR</b> (Manila FIR-SRR data not aligned)	N 21 00 00, E 117 30 00; N 21 00 00, E 121 30 00; N 21 00 00, E 130 00 00; N 07 00 00, E 130 00 00; N 03 30 00, E 133 00 00; N 03 30 00, E 132 00 00;	

	<p>N 04 00 00, E 132 00 00;  N 04 00 00, E 120 00 00;  N 07 30 00, E 117 30 00;  N 08 25 00, E 116 30 00;  N 10 30 00, E 114 00 00;  N 14 30 00, E 114 00 00;  N 16 40 00, E 114 00 00;  N 21 00 00, E 117 30 00.</p>	
<p><b>Nadi SRR</b>  (Nadi FIR-SRR data not aligned)</p>	<p>N 03 30 00, W/E 180 00 00;  S 25 00 00, W/E 180 00 00;  S 25 00 00, E 171 25 00;  S 28 00 00, E 168 00 00;  S 30 00 00, E 163 00 00;  S 17 50 00, E 163 00 00;  S 14 00 00, E 161 15 00;  S 14 00 00, E 163 00 00;  S 11 48 00, E 166 52 00;  S 10 00 00, E 170 00 00;  N 03 30 00, E 170 00 00;  N 03 30 00, W/E 180 00 00;  S 05 00 00, W/E 180 00 00;  S 05 00 00, W 172 00 00;  S 25 00 00, W/E 180 00 00;  N 03 30 00, W/E 180 00 00.</p>	
<p><b>Nauru SRR</b>  (Nauru FIR)</p>	<p>N 03 30 00, E 170 00 00;  N/S 00 00 00, E 170 00 00;  superfluous  S 10 00 00, E 170 00 00;  S 11 48 00, E 166 52 00;  S 10 30 00, E 166 45 00;  S 04 50 00, E 160 00 00;  N/S 00 00 00, E 160 00 00;  superfluous  N 03 30 00, E 160 00 00;  N 03 30 00, E 170 00 00.</p>	
<p><b>New Zealand SRR</b>  (Auckland Oceanic FIR-  New Zealand SRR data  not aligned)</p>	<p>S 90 00 00, E 163 00 00;  S 25 00 00, E 163 00 00;  S 25 00 00, E 180 00 00;  S 05 00 00, E W 171 00 00;  (longitude is W, not east as in Table  SAR I-1);  S 05 00 00, W 157 00 00;  S 30 00 00, W 157 00 00;  S 30 00 00, W 131 00 00;  S 90 00 00, W 131 00 00;  S 90 00 00, W 180 00 00; (line is  superfluous);  S 90 00 00, E 163 00 00.</p>	
<p><b>Phnom Penh SRR</b>  (Phnom Penh FIR-SRR  data not aligned)</p>	<p>No information on record</p>	

<p><b>Port Moresby SRR</b> (Port Moresby FIR-SRR data not aligned)</p>	<p>S 04 50 00, E 160 00 00; S 04 50 00, E 159 00 00; S 06 33 00, E 156 02 00; S 06 40 00, E 156 02 00; S 06 51 00, E 155 55 00; S 06 56 00, E 155 42 00; S 06 56 00, E 155 36 00; S 07 19 00, E 155 00 00; S 12 00 00, E 155 00 00; S 12 00 00, E 144 00 00; S 11 43 00, E 144 04 00; S 11 30 00, E 144 02 00; S 09 57 00, E 144 05 00; S 09 24 00, E 144 14 00; S 09 08 00, E 143 52 00; S 09 19 00, E 142 48 00; S 09 16 00, E 142 03 00; S 09 37 00, E 141 00 00; N 00 00 00, E 141 00 00; N/S 00 00 00, E 160 00 00; S 04 50 00, E 160 00 00.</p>	
<p><b>Pyongyang SRR</b> (Pyongyang FIR)</p>	<p>N 40 30 00, E 135 56 00; N 38 38 00, E 133 39 00; N 38 38 00, E 128 25 22 00; GIS inconsistency thence following the national boundary from N 38 38 00, E 128 22 00 to N 38 00 00, E 124 51 00; ROK data N 38 00 00, E 124 00 00; N 39 51 00, E 124 10 00; thence following the national boundary from N 39 51 00, E 124 10 00 to N 42 25 00, E 130 36 00; N 42 09 00, E 130 53 00; N 41 40 00, E 131 31 00; N 40 30 00, E 135 56 00.</p>	
<p><b>Shanghai SRR</b> (Shanghai FIR-SRR data not aligned)</p>	<p>N 36 32 00, E 115 18 00; N 37 29 00, E 117 30 00; N 38 15 00, E 120 00 00; N 38 00 00, E 124 00 00; N 30 00 00, E 124 00 00; N 29 00 00, E 124 00 00; N 25 00 00, E 120 00 00; N 23 00 00, E 117 30 00; N 23 10 00, E 117 30 00; N 23 30 00, E 117 30 00; N 23 41 00, E 117 13 00; N 23 42 00, E 117 11 00;</p>	

	<p>N 24 22 00, E 116 42 00;  N 24 46 00, E 115 01 00;  N 25 07 00, E 114 18 00;  N 26 03 00, E 114 07 00;  N 26 42 00, E 113 57 00;  N 29 02 00, E 114 34 00;  N 30 05 00, E 115 56 00;  N 32 54 00, E 115 47 00;  N 35 15 00, E 115 27 00;  N 35 42 00, E 115 01 00;  N 36 21 00, E 114 55 00;  N 36 32 00, E 115 18 00.</p>	
<p><b>Shenyang SRR</b>  (Shenyang FIR-SRR data  not aligned)</p>	<p>No information on record</p>	
<p><b>Singapore SRR</b>  (Singapore FIR)</p>	<p>N 08 25 00, E 116 30 00;  N 02 15 00, E 108 30 00;  N 01 00 00, E 108 30 00;  N 01 00 00, E 108 58 00; GIS  inconsistent  N 01 00 00, E 108 54 00;  thence following the coastline of  Borneo from N 01 00 00, E 108 54  00 to  N 00 15 00, E 109 00 00; GIS  inconsistent  N 00 00 00, E 109 10 00;  N 00 00 00, E 109 00 00; GIS  inconsistent  N 00 00 00, E 108 00 00;  S 00 50 00, E 106 00 00;  N 00 00 00, E 105 10 00;  S 00 00 00, E 104 46 00; GIS  inconsistent  the arc of a circle radius 100NM  centered on Singapore Island  coordinates? clockwise from S 00  00 00, E 104 46 00 to N 10 39 00, E  102 10 00; GIS inconsistent N 01 38  00, E 102 20 00;  N 01 13 00, E 103 30 00;  N 01 17 00, E 103 36 00; GIS  inconsistent shows N 01 13 E 103  30  thence following the national  boundary from N 01 17 00, E 103  36 00 to  N 01 20 00, E 104 11 20 (approx)  GIS?  N 01 20 00, E 104 20 00;  N 02 36 00, E 104 45 00;</p>	

	<p>N 03 40 00, E 103 40 00;  N 04 50 00, E 103 44 00;  N 06 45 00, E 102 40 00;  N 07 00 00, E 103 00 00;  N 07 00 00, E 108 00 00;  N 10 30 00, E 114 00 00;  N 08 25 00, E 116 30 00.</p>	
<p><b>Taegu SRR</b>  (Incheon FIR)</p>	<p>N 38 38 00, E 133 39 00;  N 38 00 00, E 133 00 00;  N 37 30 00, E 133 00 00;  N 34 40 00, E 129 10 00;  N 32 30 00, E 127 30 00;  N 32 30 00, E 126 50 00;  N 30 00 00, E 125 25 00;  N 30 00 00, E 124 00 00;  N 38 00 00, E 124 00 00;  N 38 00 00, E 124 51 00; following  the national boundary from N 38  00 00, E 124 51 00 to N 38 38 00, E  128 22 00;  N 38 38 00, E 128 25 00; GIS  inconsistent  N 38 38 00, E 133 39 00.</p>	
<p><b>Tahiti SRR</b>  (Tahiti FIR)</p>	<p>N 03 30 00, W 120 00 00;  S 30 00 00, W 120 00 00;  S 30 00 00, W 157 00 00;  S 05 00 00, W 157 00 00;  S 05 00 00, W 155 00 00;  N 03 30 00, W 145 00 00;  N 03 30 00, W 120 00 00.</p>	
<p><b>Taibei SRR</b>  (Taibei SRR)</p>	<p>N 29 00 00, E 124 00 00;  N 23 30 00, E 124 00 00;  N 21 00 00, E 121 30 00;  N 21 00 00, E 117 30 00;  N 23 00 00, E 117 30 00;  N 25 00 00, E 120 00 00;  N 29 00 00, E 124 00 00.</p>	
<p><b>Tokyo SRR</b>  (Fukuoka FIR)</p>	<p>N 50 05 00, E 159 00 00;  N 43 00 00, E 165 00 00;  N 27 00 00, E 165 00 00;  N 27 00 00, E 155 00 00;  N 21 00 00, E 155 00 00;  N 21 00 00, E 121 30 00;  N 23 30 00, E 124 00 00;  N 30 00 00, E 124 00 00;  N 30 00 00, E 125 25 00;  N 32 30 00, E 126 50 00;  N 32 30 00, E 127 30 00;  N 34 40 00, E 129 10 00;  N 37 30 00, E 133 00 00;  N 38 00 00, E 133 00 00;</p>	

	<p>N 38 38 00, E 133 39 00;  N 40 30 00, E 135 56 00;  N 45 45 00, E 140 00 00;  N 45 45 00, E 142 00 00;  N 44 30 00, E 145 40 00;  then between Hokkaido and  Kunashiri Islands from  N 44 30 00, E 145 40 00 to  N 43 20 00, E 145 50 00;  N 43 00 00, E 146 50 00;  N 45 00 00, E 150 00 00;  N 50 05 00, E 159 00 00.</p>	
<p><b>Ujung Pandang SRR</b>  (Ujung Pandang FIR-  SRR data not aligned)</p>	<p>N 03 30 00, E 133 00 00;  N 03 30 00, E 141 00 00;  S 09 50 00, E 141 00 00;  S 09 50 00, E 139 40 00;  S 07 00 00, E 135 00 00;  S 09 20 00, E 126 50 00;  S 12 00 00, E 123 20 00;  S 12 00 00, E 114 30 00;  S 08 20 00, E 110 23 00;  S 03 00 00, E 110 23 00;  N 01 16 00, E 113 37 00;  thence following the national  boundary to  N 04 00 00, E 120 00 00;  N 04 00 00, E 132 00 00;  N 03 30 00, E 132 00 00;  N 03 30 00, E 133 00 00.</p>	
<p><b>Ulaanbaatar SRR</b>  (Ulaanbaatar FIR)</p>	<p>N 49 49 47, E 116 42 26 (GIS  approx);  thence following the national  boundary to  N 49 49 47, E 116 42 26.</p>	
<p><b>Urumqi SRR</b>  (Urumqi FIR-SRR data  not aligned)</p> <p>Charts shown are not  to scale and not  aligned</p>	<p>N 42 55 00, E 096 20 00;  N 41 48 00, E 095 08 00;  N 38 21 00, E 090 13 00;  N 30 26 00, E 081 37 00;  thence following the national  boundary to  N 39 29 00, E 073 40 00;  thence following the national  boundary to  N 40 20 00, E 075 50 00;  thence following the national  boundary to  N 42 11 00, E 080 20 00;  N 42 55 00, E 096 20 00.</p>	
<p><b>Vientiane SRR</b>  (Vientiane FIR)</p>	<p>N 17 00 00, E 106 34 00;  thence following the national  boundary to</p>	

	N 17 00 00, E 106 34 00.	
<b>Wuhan SRR</b> (Wuhan FIR-SRR data not aligned)	N 33 32 00, E 110 52 00; N 34 00 00, E 110 29 00; N 34 54 00, E 112 47 00; N 36 06 00, E 114 21 00; N 36 21 00, E 114 55 00; N 35 42 00, E 115 01 00; N 35 15 00, E 115 27 00; N 32 54 00, E 115 47 00; N 30 05 00, E 115 56 00; N 29 02 00, E 114 34 00; N 29 23 00, E 113 06 00; N 29 31 00, E 109 24 00; N 30 17 00, E 109 29 00; N 31 54 00, E 109 31 00; N 33 32 00, E 110 52 00.	
<b>Yangon SRR</b> (Yangon FIR-SRR data not aligned)	N 09 56 00, E 098 33 00; coordinate needs to be checked N 10 00 00, E 096 30 00; N 10 00 00, E 094 25 00; there are two different GIS descriptions – one does not have this coordinate – if this coordinate is not part of the description then the Chennai FIR needs to be fixed N 1100 00, E 094 25 00; this coordinate may not be necessary if the corner is at N 10 00 00, E 094 25 00 N 13 30 00, E 094 25 00; N 14 00 00, E 092 00 00; N 20 00 00, E 092 00 00; superfluous N 21 00 00, E 092 00 00; N 21 57 00, E 092 32 00; thence following the national boundary from N 21 57 00, E 092 32 00 to N 09 56 00, E 098 33 00.	

Summary of FIR Status						
State/Administration	FIR Names	Information Received from last State Letter	Data Consistent with GIS	Historic Data Record	Group	Notes
Afghanistan	Kabul	N	-	N	4B	PfA 19/25-ATM approved by HQ.
Australia	Brisbane	Y	N	Y	4B	PfA 20/17-ATM approved by HQ.
	Melbourne	Y	N	Y	4B	PfA 19/36-ATM approved by President of Council.
Bangladesh	Dhaka	Y	N	Y	2	PfA submitted to APRO. In consultation with India and Myanmar regarding change in FIR boundary.
Cambodia	Phnom Penh	N	-	N	2	PfA submitted to APRO. In consultation with Thailand and Viet Nam regarding change in FIR boundary.
China	Guangzhou Kunming Shenyang Urumqi	Y	N	Y	3C	PfA submitted. Validation of the coordinates in progress.
	Beijing Lanzhou				4B	PfA 20/15-ATM and 20/16-ATM approved by HQ.
	Sanya Wuhan	Y	N	N	4B	PfA 20/13-ATM, 20/14-ATM approved by HQ.
	Hong Kong	Y	N	N	3B	PfA 20/12-ATM on hold. The boundary between Guangzhou and Hong Kong FIRs is being further enhanced.
	Shanghai Taibei	Y	N	Y	2	Data in PfA submitted is different from historical records. Seeking clarifications from China.
Democratic Peoples' Republic of Korea	Pyongyang	N	N	Y	1	No data/PfA submitted.
Fiji	Nadi	Y	N	Y	4B	PfA 19/11-ATM approved by HQ.
French Polynesia (France)	Tahiti	Y	Y	Y	4A	PfA 19/10-ATM circulated to HQ. PfA on hold due to possible extension of FIR.

Summary of FIR Status						
State/Administration	FIR Names	Information Received from last State Letter	Data Consistent with GIS	Historic Data Record	Group	Notes
India	Mumbai Chennai Delhi	Y	N	Y	4B	PfA 19/32-ATM and 19/33-ATM approved by President of Council. 19/34-ATM approved by HQ.
	Kolkata	Y	N	Y	3B	PfA submitted. Circulation to HQ is subjected to discussion with Bangladesh on realignment of Dhaka FIR.
Indonesia	Jakarta Ujung Pandang	N	-	Y	4B	PfA 20/33-ATM and 20/34-ATM approved by HQ.
Japan	Fukuoka	Y	Y	Y	3B	PfA APAC-I 19/35-ATM circulated to HQ on 30 October 2019. Russia is seeking clarifications concerning common boundary with different coordinates published in respective AIPs. PfA on hold.
Lao PDR	Vientiane	N	-	Y	4B	PfA 20/44-ATM approved by HQ.
Malaysia	Kuala Lumpur Kota Kinabalu	N	-	Y	4B	PfA 20/34-ATM and 20/35-ATM approved by HQ.
Maldives	Male	Y	N	Y	4B	PfA 19/09-ATM approved by HQ.
Mongolia	Ulaanbaatar	Y	-	Y	4B	PfA 19/21-ATM approved by HQ.
Myanmar	Yangon	N	-	Y	3B	Coordination required with Bangladesh and Thailand for re-alignment of Yangon FIR.
Nauru	Nauru	N	-	N	4A	PfA 20/45-ATM approved by HQ.
Nepal	Kathmandu	Y	N	N	4B	PfA 20/37-ATM approved by HQ.
New Zealand	Auckland Oceanic New Zealand	Y	N	Y	4B	PfA 19/26-ATM and 19/27-ATM approved by President of Council.

Summary of FIR Status						
State/Administration	FIR Names	Information Received from last State Letter	Data Consistent with GIS	Historic Data Record	Group	Notes
Pakistan	Lahore Karachi	Y	Y	N	4B	PfA 19/15-ATM approved by HQ. 19/17-ATM approved by President of Council.
Papua New Guinea	Port Moresby	N	N	Y	4B	PfA 20/19-ATM approved by HQ.
Philippines	Manila	Y	N	Y	4B	PfA 19/12-ATM approved by HQ.
Republic of Korea	Incheon	N	-	Y	4A	PfA APAC-I 19/07-ATM circulated to HQ on 19 Apr 2019.
Singapore	Singapore	Y	N	Y	4B	PfA 20/36-ATM approved by HQ.
Solomon Islands	Honiara	N	-	N	4B	PfA 20/18-ATM approved by HQ.
Sri Lanka	Colombo	Y	Y	Y	4B	PfA 19/31-ATM approved by President of Council.
Thailand	Bangkok	Y	N	N	3B	PfA submitted. Coordination with Viet Nam and Cambodia required.
United States of America	Anchorage Oceanic Oakland Oceanic	N	-	Y	4B	PfA 19/29 and 19/30-ATM approved by HQ.
Viet Nam	Ha Noi Ho Chi Minh	N	-	Y	3C	PfA submitted. Coordination with Thailand and Cambodia required.

Group 1: Send State Letter to remind State to submit data.

Group 2: Send State Letter to advise inconsistency with historic records and to submit PfA (if GIS is inconsistent with historic record, change GIS).

Group 3: Send State Letter to concerned Sates to advise need for bi-lateral discussions – submit PfA when there is agreement.

Group 4: Enter information in e-ANP data.

**AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS HISTORY DATA RECORDS**

State	SRR	Lastest RAN Meeting or PfA Number	Lateral limits coordinates in record	Remarks
Afghanistan	Kabul SRR	No record		
Australia	Australia SRR	APAC 97/07	Cannot open file	
Bangladesh	Dhaka SRR	RAN/3	Amend the southern boundary of Dhaka SRR as follows:  2138N 08910E to 2000N 09200E to 2100N 09200E to 2157N 09232E.	
Cambodia	Phnom Penh SRR	No record		
China	Beijing SRR	RAN/2	Amend the boundaries of Beijing FIR as follows:  From N3815 E12000, N3930 E11952, N3954 E11921, N4315 E11731, a point on Sino-Mongolian border, N452317 E1152112, along Sino-Mogolian border line, N414451 E1051345, N4043 E10555, N4020 E10701, N3906 E10759, N3844 E10941, N3822 E11036, N3728 E11044, N3532 E11018, N3432 E11015, N3405 E11029, N3454 E11247, N3606 E11421, N3621 E11455, N3632 E11518, N3729 E11730, N3815 E12000.	
China	Guangzhou SRR	RAN/2	Amend the boundaries of Guangzhou FIR as follows:  From N2310 E11730, N2330 E11730, N2342 E11711, N2422 E11642, N2446 E11501, N2507 E11418, N2603 E11407, N2642 E11357, N2902 E11434, N2923 E11306, N2931 E10924, N2753 E10919, N2641 E10912, N2525 E10753, N2439 E10548, a point over sino-VietNameese border	Canton SRR From the point where 10500E intersects the northern national border of the Democratic Republic of Viet

			N231145 E1053230, along Sino-VietNameese border line, N213252 E10800, N1713 E10800, N1740 E10940, N1930 E11130, N2125 E11130, along the territorial limits of China to N2310 E11730.	Nam along that border to 10800E, then to 1800N 10800E, 1713N 10800E, 1740N 10940E, 1930N 11130E, 2125N 11130E then along the northern boundary of the Hong Kong FIR to 2340N 11730E, 3500N 11730E, 3500N 10500E, then southwards along the 10500E meridian to the point where it intersects the northern national border of the Democratic Republic of Viet Nam.
China	Hong Kong SRR	No record		
China	Kunming SRR	RAN/2	Amend the boundaries of Kunming FIR as follows:  From a point on Sino-Nepalese border, N302630 E813730, alog Sino-Nepalese, Sino-Sikkim, Sino-Bhutan, Sino-Indian, Sino-Burmese, Sino-Laos and Sino-VietNam border lines, N231145 E1053230, N2439 E10548 N2525 E10753,	

			N2641 E10912, N2753 E10919, N2931 E10924, N3017 E10929, N3154 E10931, N3214 E10724, N3227 E10549, N3255 E10142, N3149 E9835, N3200 E9700, N3252 E9155, N3236 E9000, N302630 E813730	
China	Lazhou SRR	RAN/2	Amend the boundaries of Lanzhou FIR as follows: From a point on Sino-Mongolian border, N414451 E1053145 along Sino-Mongolia border line N4255 E962014, N4145 E9508, N3821 E9013, N3236 E9000, N3252 E9155, N3200 E9700, N3149 E9835, N3255 E10142, N3227 E10549, N3214 E10724, N3154 E10931, N3332 E11052, N3405 E11029, N3424 E11015, N3532 E11018, N3728 E11044, N3822 E11036, N3844 E10941, N3906 E10759, N4020 E10701, N4043 E10555, N414451 E1051345	
China	Shanghai SRR	RAN/2	From N3800 E12400, N3815 E12000, N3729 E11730, N3632 E11518, N3621 E11455, N3542 E11501, N3515 E11527, N3431 E11555, N3254 E11547, N3005 E11556, N2902 E11434, N2642 E11357, N2603 E11407, N2507 E11418, N2446 E11501, N2422 E11642, N2342 E11711, N2330 E11730, N2300 E11730, N2500 E12000, N2900 E12400, N3800 E12400.	
China	Shenyang SRR	RAN/2	From N3800 E12400, N3815 E12000, N3729 E11730, N3632 E11518, N3621 E11455, N3542 E11501, N3515 E11527, N3431 E11555, N3254 E11547, N3005 E11556, N2902 E11434, N2642 E11357, N2603 E11407, N2507 E11418, N2446 E11501, N2422 E11642, N2342 E11711, N2330 E11730, N2300 E11730, N2500 E12000, N2900 E12400, N3800 E12400.	

China	Taibei SRR	RAN/2	Amend the boundaries of Taibei FIR as follow;  From N2100 E12130, N2100 E11730, N2300 E11730, N2500 E12000, N2900 E12400, N2330 E12400, N2100 E12130.	
China	Urumqi SRR	RAN/2	Amend the boundaries of SRR Urumqi as follow:  From a point on Sino-Mongolian border N4255 E962014, along Sino-Mongolia, Sino-Soviet, Sino-Afghanistan, Sino-Pakistani, Sino-Indian and Sino-Nepalese border lines, N302630 E813730, N3236 E9000, N3821 E9013, N4148 E95085, N4255 E962014.	
China	Wuhan SRR	RAN/2	Amend the boundaries of SRR Wuhan as follow;  From N3621 E14455, N3606 E11421, N3454 E12247, N3405 E11029, N3332 E11052, N3154 E10931, N3017 E10929, N2931 E10924, N2923 E11306, N2902 E11434, N3005 E11556, N3254 E11547, N3431 E11555, N3515 E11527, N3542 E11501, N3621 E11455	
Democratic People's Republic of Korea	Pyongyang SRR	RAN/1	From 3800N 12400E northwards to the continental China coast; along the northern boundary of the Democratic People's Republic of Korea to the USSR's national border to 4220N 13040E; then to 4033N 13600E, 3838N 13339E, 3838N 12822E then along the armistice line to 3800N 12450E; then to 3800N 12400E	
French Polynesia (France)	Tahiti SRR	RAN/1	Amend the western boundary of the SRR Tahiti as follows:  0500S 15500W, 0500S 17500W, 3000S 15700W, 03000S 14200W.	

India	Bombay SRR	RAN/1	Amend the southern and eastern boundaries of the SRR Bombay as follows:  1200N 0600E, 0500N 6000E, 500N 7120E, 0600N 7200E, 1500N 7200E, 1500N 7600E, 1800N 7600E, 1800N 8100E 1715N 8200E, 2500N 8200E.	
		RAN/2	Amend the southern boundary of the SRR Bombay so as to include the airspace between: N0500 E6000, S0600 E6000, S0600 E6800, Equator E6800, N0500 E7120.	
India	Calcutta	RAN/3	Amend the Calcutta SRR boundary as follows:  Beginning of the intersection of the E08340 meridian with the common border of India/Nepal, then East along the border of India/Nepal to the point on common border of Nepal/China/India, then along the border of India/China to the point on common border of India/China/Myanmar, then along the border of India/Myanmar to 2157N 09232E, then North along the common border of India/Bangadesh to 2138N 08910E to 2000N 09200E then South along 09200E meridian to 1400N 09200E to 1630N 08300E to 1715N 08200E to 2500N 08200E to 2500N 08300E to 2710N 08300E to 2715N 08340E, then along the 08340E meridian to its intersection with the common border of India/Nepal.	
India	Delhi SRR	No record		
India	Madras SRR	RAN/1	Eastern boundary: 1630N 8300E, 1400N 9200E, 1330N 9425E, 0600N 9425E, 0600N 9200E, 1000N 9200E.	
		RAN/2		

		RAN/3	Amend the common boundary between Madras FIR and Colombo FIR as follows:  N1000 E8200, N0600 E9200  Amend the eastern boundary of Madras SRR as follows:  From 0600N 09425E to 1000N 09425E to 1000N 09600E to 1100N 09425E to 1330N 09425E.	
Indonesia	Bali SRR	No record		
Indonesia	Biak SRR	RAN/1	Amend te eastern boundary of the Biak SRR as follows:  0330N 14100E, Equator 14100E, along the territorial border of Indonesia/Papua New Guinea to 0937S 14102E, 0950S 14100E, 0950S 14000E.	
Indonesia	Jakarta SRR	RAN/1	Amend the boundaries of the Jakarta SRR as follows:  0600N 9200E, 0600N 9730E, 0200N 10215E, then anti clockwise along a circle of 100NM radius centered at Singapore to 0000 10446E, 0000 10510E, 0050S 10600E, 0000 10800E, 0000 10900E, then north along the coast line of West Kalimantan to its intersection with the border line between Indonesia and Sarawak then along the Indonesian national boundaries until 0113N 11335E then to 0300S 11023E, 1200S 11023E, 1200S 10700E, 0200S 9200E to 0600N 9200E.	
Indonesia	Ujung Pandang SRR	RAN/1	Rename the Makassar SRR as the Ujung Pandang SRR and amend the boundaries as follows:  0400N 12115E, 0400N 12910E, 0200S 12910E,	

			0520S 13500E, 0700S 13500E, 0920S 12650E, 0700S 12430E, 0700S 12100E, 0530S 11800E, 0400S 11800E then to 0400N 12115E.	
Fiji	Nadi SRR	RAN/1	Amend the Fiji SRR as the Nandi SRR and amend the lateral limits of the <b>Nandi</b> and Auckland SRRs as follows:  Equator 16000E, Equator 17000E, 0330N 17000E, 0330N 18000E, 0500S 18000E, 0500S 15700W, 2000S 15700W, 2000S 16700E, 2500S 17500W, 2500S 17730E, 3100S 16940E, 3200S 16300E, 1400S 16300E, 1400S 15500E, 1200S 15500E, along the amended eastern boundary of Port Moresby FIR to Equator 16000E.	
Japan	Tokyo SRR	RAN/1	Amend the northern boundary of the Tokyo SRR as follows:  4300N 14650E, 4500N 15000E, 5005N 15900E, 4300N 16500E.  Amend the south western boundary of the Tokyo SRR to include the Okinawa SRR in its entirety.	
Lao PDR	Vientiane SRR	No record		
Malaysia	Kota Kinabalu SRR	RAN/1	0825N 11630E, 0730N 11730E, 0400N 12000E, 0400N 11800E, then along the national boundary of East Malaysia and Indonesia to a point 0100N 10854E then 0100N 10830E, 0215N 10830E, 0825N 11630E.	
Malaysia	Kuala Lumpur SRR	RAN/1	0645N 10240E, 0450N 10344E, 0340N 10340E, 0236N 10445E, 0120N 10420E, along 0120N to the Malaysia national boundary, then along the Malaysia national boundary to 0117N 10336E, 0113N 10330E, 0200N 10215E, 0600N 9730E, 1000N 9425E,	

			1000N 9630E, 0715N 9800E, 0630N 9930E, then along the northern border of West Malaysia to 0615N 10215E, 0645N 10240E.	
Maldives	Male SRR	RAN/2	Insert a new SRR Male with boundaries as follows:  N0600 E7800, N0600 E7200, Equator E6800, S0600 E6800, S0600 E7500, S0200 E7800, N0600 E7800.	
Mongolia	Ulaanbaatar SRR (former name Ulan Nator)	RAN/1	national borders of Mongolia	
Myanmar	Yangon SRR (Rangoon)	RAN/1	Amend the Yangon SRR boundary as follows:  Straight lines joining 2100N 09200E, 2157N 09232E, thence North along the border of India/Myanmar to the point on common border of China/India/Myanmar, then along the border of China/Myanmar to the point of common border of China/India/Myanmar, then along border of China/Myanmar to the point of common border of China/Laos PDR/Myanmar, then along the border of Laos PDR/Myanmar to the point of common border of Laos PDR/Myanmar/Thailand, then along the border of Myanmar/Thailand to 1000N 09830E to 1000N 09600E to 1100N 09425E to 1330N 09425E to 1400N 09200E to 2100N 09200E.	
Nauru	Nauru SRR	No record		
Nepal	Kathmandu SRR	No record		
New Zealand	New Zealand SRR	No record		
Pakistan	Karachi SRR	No record		

Pakiatan	Lahore SRR	No record		
Papua New Guinea	Port Moresby SRR	RAN/1	Amend the boundaries of the Port Moresby SRR as follows:  Equator 14100E, Equator 16000E, 0450S 16000E, 0450S 15900E along the Papua New Guinea territorial border to 0800S 15400E, 0800S 15500E, 1200S 15500E 1200S 14400E along the Papua New Guinea territorial border to 0937S 14102E then along the territorial border to Equator 14100E.	
Philippines	Manila SRR	RAN/1	Amend the western boundary of the Manila SRR as follows:  1030N 11400E, 1000N 11430E, 0730N 11520E, 0825N 11630E, 0730N 11730E, 0400N 12000E.	
		RAN/2	Amend the common boundary between Manila and Singapore FIR as follows:  1030N 11400E to 0825N 11630E	
		RAN/3	Amend the eastern boundary of Manila SRR as follows:  2100N 13000E – 0700N 13000E – 0330N 13300E – 0330N 13200E – 0400N 13200E  Amend the boundary between Manila SRR and Oakland Oceanic SRR as follows:  2100N 13000E – 0700N 13000E – 0330N 13300E.	
Republic of Korea	Taegu SRR	RAN/1	Amend the Taegu SRR as the Osan SRR and amend the northern boundary as follows:	

			3800N 12400E, 3800N 12405E, then along the armistice line to 3838N 12822E, then to 3838N 13339E.	
Singapore	Singapore SRR	RAN/1	Amend the boundaries of the Singapore SRR as follows:  0645N 10240E, 0700N 10300E, 0700N 10800E, 1030N 11400E, 1000N 11430E, 0730N 11520E, 0215N 10830E, 0100N 10830E, 0100N 10854E, then along the national boundary of Indonesia to 0015N 10900E, then to Equator 10900E, Equator 10800E, 0050S 10600E, Equator 10510E, Equator 10446E, then around an arc 100 NM radius from Singapore International Airport to 0200N 10215E, 0113N 10330E, 0117N 10336E, then along the Singapore national boundary to 0120N 10406E, 0120N 10420E, 0236N 10445E, 0340N 10340E, 0450N 10344E, 0645N 10240E.	
Solomon Islands	Honiara SRR	No record		
Sri Lanka	Colombo SRR	RAN/1	Amend the western boundary of the Colombo SRR as follows:  1000N 8000E, 0600N 7800E, 0600N 7200E, 0500N 7120E, 0500N 6000E, 0600S 6000E,	
		RAN/2	Amend the western boundary of the Colombo FIR as follows:  N0600 E7800, S0200 E7800.	
		RAN/3	Amend the common boundary between Colombo and Madras SRR as follows:  From N0900 E07930 to N0700 E07830 to N0600 E07630.	

Thailand	Bangkok SRR	No record		
United States	Juneau SRR	RAN/1	Amend the boundaries of Juneau SRR as follows:  North Pole, 6500N 16900W, 6000N 18000, 5400N 16900E, 5120N 16200E, 5005N 15900E, 4300N 16500E, 4000N 16500E, 4000N 15000W, 5440N 14000W, 5440N 13600W, 5400N 13600W, thence along the northern boundary of the Vancouver FIR to 5413N 13457W, 543945N 1324100W to the coast at 5442.5N 13036.5W thence along the U.S./Canadian border to its intersection with 141W, thence westward along such coastline to its intersection with 58N, thence due west to the coastline, thence northerly to 141W, thence north to the point of origin.	
United States	Honolulu SRR	No record		
Viet Nam	Hanoi SRR	RAN/1	Lateral limits delineated by the Kunming, Canton, Saigon and Vietniane FIRs.	
Viet Nam	Ho Chi Minh SRR	No record		

**Table ATM I-1**  
**FLIGHT INFORMATION REGIONS (FIR)/UPPER INFORMATION REGIONS (UIR) IN**  
**THE ASIA/PACIFIC REGIONS**

**EXPLANATION OF THE TABLE**

Column:

- 1 Name of the FIR/UIR / Location Indicator according to Doc 7910
- 2 Description of FIR/UIR lateral limits;
  - a. Describe separately in the table the limits of the UIRs if they are not similar to the FIRs limits.
- 3 Remarks — additional information, if necessary.
  - a. Describe vertical limits if necessary.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
<b>Auckland Oceanic (NZZO)</b>	FIR/UIR Auckland Oceanic  300000S 1310000W 900000S 0000000E 300000S 1630000E 280000S 1680000E 250000S 1712500E 250000S 1800000E 153245.1S 1754031.2W 050000S 1710000W 050000S 1570000W 300000S 1570000W 300000S 1310000W excluding the New Zealand FIR.	Vertical limits: SFC to FL999
<b>Bangkok (VTBB)</b>	FIR/UIR Bangkok <i>To be incorporated</i>	
<b>Beijing (ZBPE)</b>	FIR/UIR Beijing <i>To be incorporated</i>	
<b>Brisbane FIR (YBBB)</b>	FIR/UIR Brisbane <i>To be incorporated</i>	
<b>Chennai (VOMF)</b>	FIR/UIR Chennai  A line joining 133000N 0942500E 060000N 0942500E 060000N 0920000E 100000N 0820000E 100000N 0800000E 060000N 0780000E 060000N 0740000E	Vertical limits: SFC to UNL

	073000N 0740000E 073000N 0720000E 150000N 0720000E 150000N 0733500E 161700N 0730000E 162200N 0733400E 162600N 0741100E 163600N 0752800E 164000N 0760000E 180000N 0760000E 191900N 0760000E 194300N 0771000E 184300N 0820000E 184100N 0824900E 154200N 0855400E 140000N 0920000E 133000N 0942500E.	
<b>Colombo (VCCF)</b>	FIR/UIR Colombo  A line joining 060000N 0920000E 020000S 0920000E 020000S 0780000E 060000N 0780000E 100000N 0800000E 100000N 0820000E 060000N 0920000E.	Vertical limits: SFC to UNL
<b>Delhi (VIDF)</b>	FIR/UIR Delhi <i>To be incorporated</i>	
<b>Dhaka (VGFR)</b>	FIR/UIR Dhaka <i>To be incorporated</i>	
<b>Fukuoka (RJJJ)</b>	FIR/UIR Fukuoka <i>To be incorporated</i>	
<b>Guangzhou (ZGZU)</b>	FIR/UIR Guangzhou <i>To be incorporated</i>	
<b>Hanoi (VTVV)</b>	FIR/UIR Hanoi <i>To be incorporated</i>	
<b>Ho Chi Minh (VVTS)</b>	FIR/UIR Ho Chi Minh <i>To be incorporated</i>	
<b>Hong Kong (VHHK)</b>	FIR/UIR Hong Kong <i>To be incorporated</i>	
<b>Honiara (AGGG)</b>	FIR/UIR Honiara <i>To be incorporated</i>	
<b>Incheon (RKRR)</b>	FIR/UIR Incheon <i>To be incorporated</i>	

<b>Jakarta (WIIF)</b>	FIR/UIR Jakarta <i>To be incorporated</i>	
<b>Kabul (OAKX)</b>	FIR/UIR Kabul <i>To be incorporated</i>	
<b>Karachi (OPKR)</b>	FIR/UIR Karachi  300000N 0733500E thence following the national boundary to 234000N 0681000E 233000N 0682300E 233000N 0643000E 233000N 0612000E 244000N 0612000E 251040N 0613550E thence following the national boundary to 300000N 0661900E 300000N 0733500E.	Vertical limits: SFC to UNL
<b>Kathmandu (VNSM)</b>	FIR/UIR Kathmandu <i>To be incorporated</i>	
<b>Kolkata (VECF)</b>	FIR/UIR Kolkata <i>To be incorporated</i>	
<b>Kota Kinabalu (WBFC)</b>	FIR/UIR Kota Kinabalu <i>To be incorporated</i>	
<b>Kuala Lumpur (WMFC)</b>	FIR/UIR Kuala Lumpur <i>To be incorporated</i>	
<b>Kunming (ZPKM)</b>	FIR/UIR Kunming <i>To be incorporated</i>	
<b>Lahore (OPLR)</b>	FIR/UIR Lahore <i>To be incorporated</i>	
<b>Lanzhou (ZLHW)</b>	FIR/UIR Lanzhou <i>To be incorporated</i>	
<b>Male (VRMF)</b>	FIR/UIR Male <i>To be incorporated</i>	
<b>Manila (RPHI)</b>	FIR/UIR Manila <i>To be incorporated</i>	
<b>Melbourne (YMMM)</b>	FIR/UIR Melbourne  290000S 1463200E 320540S 1484951E 332539S 1503147E then along the clockwise arc of a circle of 45NM radius centred on 335638S 1511057E (SY/DME) to 342822S 1514929E	Vertical limits: SFC to UNL

	351859S 1525550E then along the clockwise arc of a circle of 120NM radius centred on 345700S 1503200E (NWA/TAC) to 365643S 1504503E 381119S 1501914E 430000S 1510000E 435103S 1503953E 443357S 1500000E 450000S 1500000E 450000S 1630000E 900000S 0000000W/E (South Pole) 060000S 0750000E 020000S 0780000E 020000S 0920000E 120000S 1070000E 120000S 1143000E 140813S 1150832E 190000S 1201500E 200318S 1214022E 213119S 1243304E 232349S 1260332E 231313S 1282749E 211209S 1315024E 212959S 1361944E 215132S 1362225E 221751S 1363807E 261331S 1382324E 290000S 1433000E 290000S 1463200E.	
<b>Mumbai (VABF)</b>	FIR/UIR Mumbai  A line joining 250001N 0790455E 231049N 0800334E 222850N 0802116E 213009N 0803537E 184300N 0820000E 194300N 0771000E 191900N 0760000E 180000N 0760000E 164000N 0760000E 163600N 0752800E 162600N 0741100E 162200N 0733400E 161700N 0730000E 150000N 0733500E 150000N 0720000E 073000N 0720000E 073000N 0700000E 030500N 0700000E 000000N 0680000E 060000S 0680000E 060000S 0600000E 194800N 0600000E 233000N 0643000E	Vertical limits: SFC to UNL

	then eastwards along 233000N parallel until it meets the Indian coastline at 233000N 682300E then northwards along the coastline to 234000N 0681000E then along the common border between India and Pakistan to 250000N 0705500E 250001N 0790455E.	
<b>Nadi (NFFF)</b>	FIR/UIR Nadi <i>To be incorporated</i>	
<b>Nauru (ANAU)</b>	FIR/UIR Nauru <i>To be incorporated</i>	
<b>New Zealand (NZZC) (Christchurch FIR)</b>	FIR/UIR New Zealand 382700S 1794400W 425130S 1750300E 480900S 1681600E 455500S 1651800E 412527S 1702324E the arc of a circle of 200 NM radius centered on 412014S 1744901.1E from 412527S 1702324E clockwise to 390738.1S 1713321.7E the arc of a circle of 200 NM radius centered on 370016.7S 1744849.1E from 390738.1S 1713321.7E clockwise to 373229.5S 1785608.9E a line joining 373229.5S 1785608.9E 382700S 1794400W	Vertical limits: SFC to FL999
<b>Phnom Penh (VDPP)</b>	FIR/UIR Phnom Penh <i>To be incorporated</i>	
<b>Port Moresby (AYPM)</b>	FIR/UIR Por Moresby <i>To be incorporated</i>	
<b>Pyongyang (ZKKP)</b>	FIR/UIR Pyongyang <i>To be incorporated</i>	
<b>Sanya (ZJSA)</b>	FIR/UIR Sanya <i>To be incorporated</i>	
<b>Shanghai (ZSHA)</b>	FIR/UIR Shanghai <i>To be incorporated</i>	
<b>Shenyang (ZYSH)</b>	FIR/UIR Shenyang <i>To be incorporated</i>	

<b>Singapore (WSJC)</b>	FIR/UIR Singapore <i>To be incorporated</i>	
<b>Tahiti</b>	FIR/UIR Tahiti <i>To be incorporated</i>	
<b>Taibei</b>	FIR/UIR Taibei <i>To be incorporated</i>	
<b>Ujung Pandang (WAAF)</b>	FIR/UIR Ujung Pandang <i>To be incorporated</i>	
<b>Ulaanbaatar (ZMUB)</b>	FIR/UIR Ulaanbaatar <i>To be incorporated</i>	
<b>Urumqi (ZWUQ)</b>	FIR/UIR Urumqi <i>To be incorporated</i>	
<b>Vientiane (VLAO)</b>	FIR/UIR Vientiane <i>To be incorporated</i>	
<b>Wuhan (ZHWH)</b>	FIR/UIR Wuhan <i>To be incorporated</i>	
<b>Yangon (VYYY)</b>	FIR/UIR Yangon <i>To be incorporated</i>	

## Lahore-Karachi-Delhi FIRs

### Background

During the APAC RAN/1 Meeting held in 1973, the meeting had noted that Pakistan was providing flight information and other air navigation services within a portion of airspace over Jammu and Kashmir State which is shown in the ICAO MID/SEA Air Navigation Plan Publication under the Delhi FIR. The Meeting recognized that the area within which air traffic services are provided by Pakistan should be delineated. The Meeting recommended-

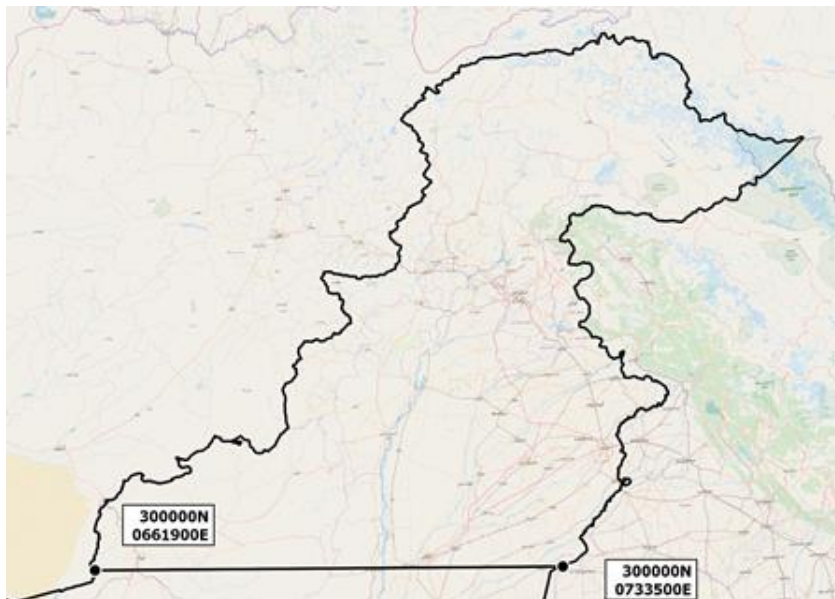
### **Recommendation 7/7 - Boundaries of Delhi and Lahore FIRs**

That the Government of India and Pakistan arrange an early meeting with a view to delineating the boundaries of the Delhi and Lahore Flight Information Region.

### Current Situation

In April 2019, Pakistan had submitted a PfA with the following Lahore FIR description (**Figure 1**):

30 00 00 N, 073 35 00 E  
30 00 00 N, 066 19 00 E  
thence following the national boundary to  
30 00 00 N, 073 35 00 E.

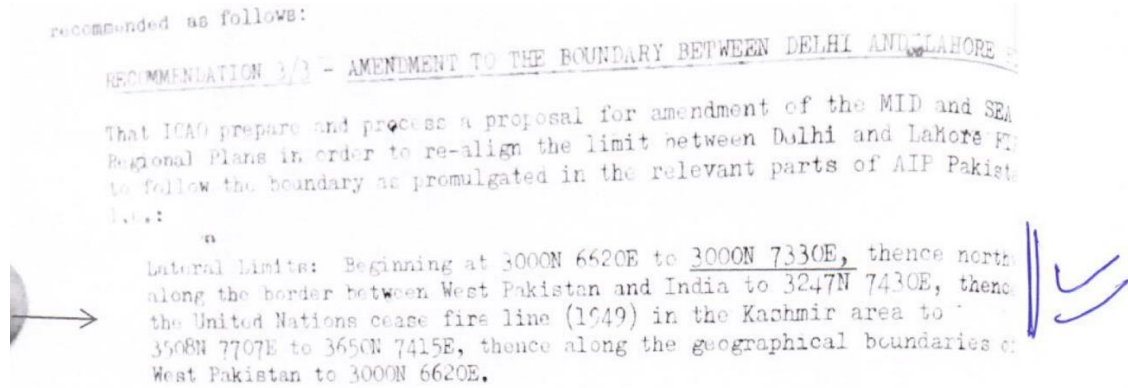


**Figure 1:** Pakistan's PfA Image

The PfA was circulated to ICAO HQ and was approved, as it aligned with the records held by HQ and the Geographic Information Service (GIS). Subsequently, the PfA had been circulated to APAC States and International Organizations (IOs) for comments in March 2020. The following comments were received from India in April 2020:

*Reference may please be made to ICAO APAC State letter T 3/2.6, T 3/3.6.21- AP058/20 (ATM) (Serial No: APAC 19115-ATM) dated 12th March, 2020 regarding Lahore FIR and copy of the same is attached herewith for ready reference.*

The proposal was examined with documents from India, which included a copy of a Middle East (MID) RAN Meeting held in Geneva, 4 - 23 October 1965 (eight years before the APAC RAN 1 Meeting). It was observed that the coordinates highlighted above differed from the coordinates recommended in MID RAN Meeting. The MID RAN meeting held in 1965 agreed to a recommendation 3/3) realignment of Lahore FIR of Pakistan to 30 00 N, 073 30 E and 30 00 N, 66 20 E (**Figure 2**).



**Figure 2:** MID RAN Meeting, 1965

The MID RAN Meeting Reported had also noted that:

*The Committee, having been advised of an agreement between India and Pakistan to re-align the boundary between Karachi and Delhi and Bombay along the national border of Pakistan, agreed to revise the Regional Plans accordingly.*

Notwithstanding this, it is unclear from the records the nature of the agreement between Pakistan and India reported to the 1965 MID RAN Meeting. It is further noted that during the period from 1965 to 1973 there had been two major wars between Pakistan and India, which could have affected the boundary.

ICAO Proposal

ICAO propose to solve this mismatch between RAN meeting outcomes in terms of the 30 00 N, 073 30 E coordinate through bilateral negotiation between India and Pakistan, facilitated if necessary by the Regional Office and APANPIRG. ICAO noted that the national border is between the two coordinates that each nation recognizes – at approximately 30 00 00 N, 073 32 42 E (**Figure 3**).



**Figure 3:** National Border, Pakistan - India

Regarding the 30 00 00 N, 066 19 00 E coordinate between the Tehran and Karachi/Lahore FIRs, this will be double-checked with the ICAO MID regional Office as is not a matter for dialogue with India.

.....

## Kolkata-Dhaka-Yangon FIRs

### Background

According to the historical records for the Kolkata FIR (previously, Calcutta), and the Yangon FIR (previously, Rangoon), the 1973 Regional Air Navigation Meeting (RAN/1) provided some definitions as follows (**Figure 1**):

- x) Amend the boundaries of the Madras, Calcutta and Rangoon FIRs as follows:
- ✓ FIR Madras : Eastern boundary: 1630N 8300E, 1400N 9200E, 1330N 9425E, 0600N 9425E, 0600N 9200E, 1000N 9200E.
  - ✓ FIR Calcutta - Southern boundary: 1630N 8300E, 1400N 9200E  
Western boundary: 2500N 8200E, 1715N 8200E;
  - ✓ FIR Rangoon - Western boundary: 2100N 9200E, 1400N 9200E, 1330N 9425E, 1000N 9425E.

**Figure 1:** RAN 1 Meeting Report Excerpt

At the 1993 RAN/3 Meeting, the Calcutta FIR was amended, the Dhaka FIR was mentioned (but only so far as its southern boundary was defined), and there were also amendments to the Yangon FIR (**Figure 2**):

### **Recommendation 5/7 - Realignment of Calcutta, Dhaka, Madras and Yangon FIR boundaries**

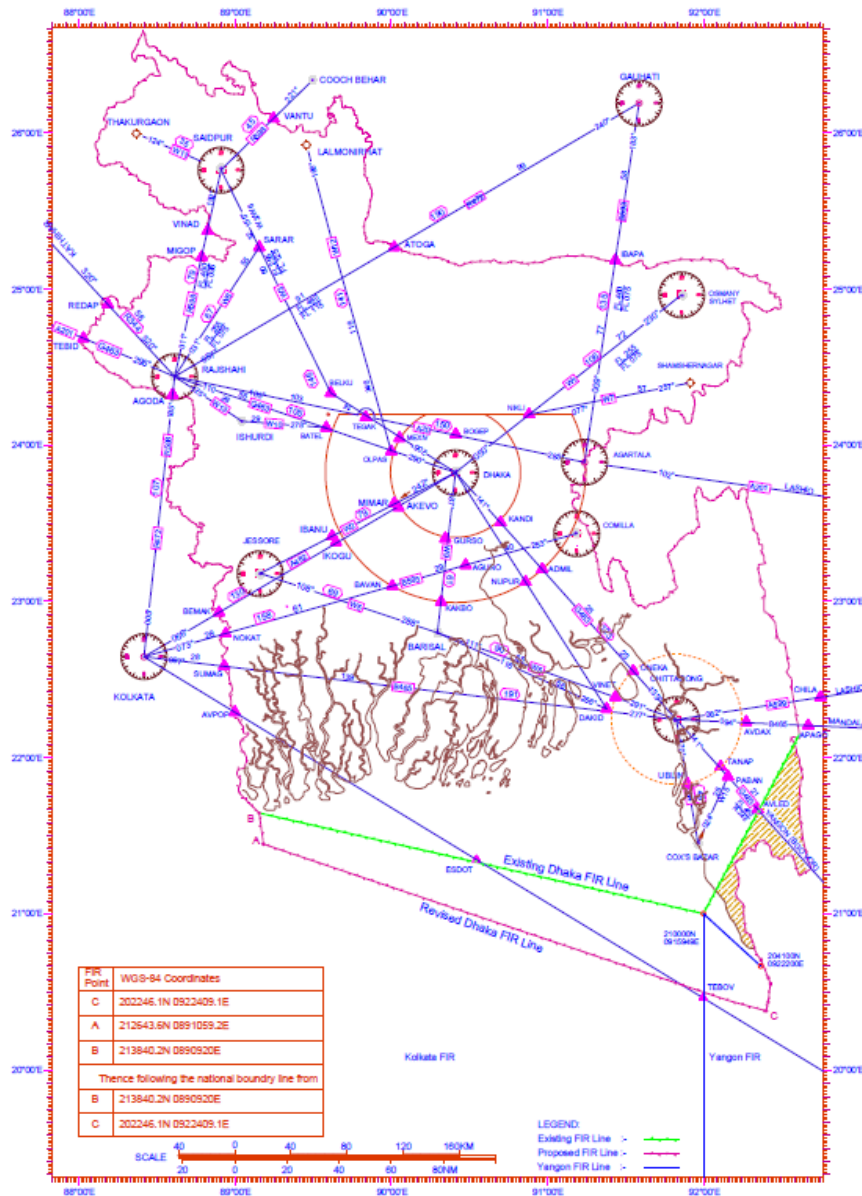
That the ICAO *Air Navigation Plan – Middle East and Asia Regions* (Doc 8700) be amended as follows:

- ✓ a) Amend Calcutta flight information region (FIR) boundary as follows:  
Beginning of the intersection of the 08340E meridian with the common border of India/Nepal, then East along the border of India/Nepal to the point on common border of Nepal/China/India, then along the border of India/China to the point on common border of India/China/Myanmar, then along the border of India/Myanmar to 2157N 09232E, then North along the common border of India/Bangladesh to 2138N 08910E to 2000N 09200E then South along 09200E meridian to 1400N 09200E to 1630N 08300E to 1715N 08200E to 2500N 08200E to 2500N 08300E to 2710N 08300E to 2715N 08340E, then along the 08340E meridian to its intersection with the common border of India/Nepal.
- ✓ b) Amend the southern boundary of Dhaka FIR as follows:  
2138N 08910E to 2000N 09200E to 2100N 09200E to 2157N 09232E.
- ✓ c) Amend Yangon FIR boundary as follows:  
Straight lines joining 2100N 09200E, 2157N 09232E, thence North along the border of India/Myanmar to the point on common border of China/India/Myanmar, then along the border of China/Myanmar to the point of common border of China/Lao PDR/Myanmar, then along the border of Lao PDR/Myanmar to the point of common border of Lao PDR/Myanmar/Thailand, then along the border of Myanmar/Thailand to 1000N 09830E to 1000N 09600E to 1100N 09425E to 1330N 09425E to 1400N 09200E to 2100N 09200E.
- ✓ d) Amend the eastern boundary of Madras FIR as follows:  
From 0600N 09425E to 1000N 09425E to 1000N 09600E to 1100N 09425E to 1330N 09425E.

**Figure 2:** RAN/3 Meeting Report Excerpt

Current Situation

Bangladesh submitted a Proposal for Amendment (PFA) for the Dhaka Flight Information Region ( FIR) in February 2019, with the intention of re-aligning the FIR (**Figure 3**).



**Figure 3:** Bangladesh’s Pfa Proposal

During informal discussions pre-circulation of the Pfa, the proposal was not accepted by India and Myanmar, as there had been no prior formal discussion between the three States.

During the ATM/SG/7 (August 2019), Bangladesh approached ICAO for advice. ICAO informed Bangladesh that the delineation of FIR should be based on technical and operational reasons. In order to achieve re-alignment, Bangladesh would have to justify technically and operationally that it would be an improvement over the high seas (international airspace) portion of the proposal, as is always the case.

Bangladesh informed ICAO that they would discuss this matter with India and Myanmar during the BIMT/7 meeting (February 2020, Dhaka).

ICAO requested updates from Bangladesh in October 2020 and the following comments were received:

*Although India is not seeking to alter/realign Kolkata FIR's dimensions, but the submitted Pfa has some coordinates which are inside the Sovereign airspace of Bangladesh territory.*

*Your good office is well informed about Bangladesh FIR issue, specifically some portion of sovereign airspace of Bangladesh which is not included in existing Dhaka FIR. As advised by ICAO APAC office, we have started initiatives to resolve the issue through Diplomatic channel. But there are no responses from both of the States.*

*In light of above, we would like to request you to hold up the FIR Pfa of Kolkata and Myanmar.*

### ICAO Proposal

ICAO had stated on several occasions to the parties that the current FIR review process was focused on the validation of the current FIR, and this any proposed changes should be managed with a subsequent Pfa.

ICAO proposed to solve the identification of the two key coordinates where the national boundaries meet the coastline (possibly Points B and C on **Figure 3**, to be confirmed), in order to resolve the current FIR definitions by bilateral confirmation of these points between Bangladesh and India, and between Bangladesh and Myanmar.

However, as previously noted, Bangladesh had been conducting this discussion through ‘diplomatic’ channels, which may take a very long time. Without a volume being formally recognized in the APAC Regional Air Navigation Plan, there were significant potential legal consequences. Furthermore, ICAO noted that FIRs are concerned about Air Traffic Services (ATS) service volume, so are not necessarily aligned with sovereign airspace, and even less so for an Exclusive Economic Zone (EEZ), which has no consequences for airspace.

Therefore, ICAO recommends that the bilateral discussion between Bangladesh and India, and between Bangladesh and Myanmar should be conducted with these points in mind, and in accordance with any expectations from APANPIRG.

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## Khabarovsk-Fukuoka FIRs

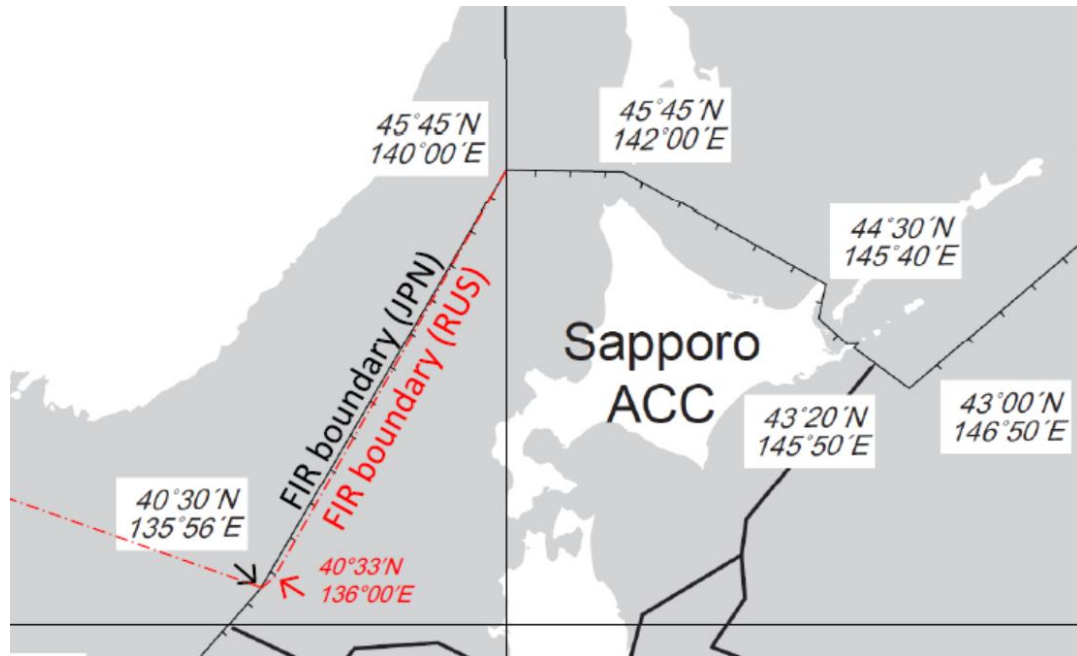
### Background

In 1996, the boundary between the Pyongyang FIR and Vladivostok (current Khabarovsk) FIR was changed. One of the points was N40°30' E135°56'. However, at that time, Japan did not amend its Aeronautical Information Publication (AIP). Japan and Russia then found a difference in coordinates of the Tokyo (current Fukuoka)/ Yuzhno-Sakhalinsk (current Khabarovsk) FIR

in 2002, Japan also found that the boundary between Tokyo/ Vladivostok FIR was different. Then, ICAO (Headquarters) found that the coordinates were different in ANPs of ASIA/PAC and EUR and concluded that the coordinates in ASIA/PAC ANP were correct and in EUR ANP were wrong. In response to the conclusions of ICAO, Japan amended the AIP.

Japan noted that from 16 – 18 June 2014, the Japan-Russia ATC Operation Working Group Meeting had held in Khabarovsk. In coordination of the agenda, Japan found that some coordinates of FIR boundary between Fukuoka and Khabarovsk were different in Japanese and Russian AIPs. Japan gave notice of it to Russia immediately, and the parties agreed to investigate the facts.

In the Japanese AIP, the FIR boundary is shown as “N45°45' E140°00', N40°30' E135°56', N38°38' E133°39', ...”. In Russian AIP, is shown as “N45°45' E140°00', N40°33' E136°00', N40°30' E135°56', N41°40' E131°31', ...” (**Figure 1**).



**Figure 1:** FIR Boundary Difference – Khabarovsk and Fukuoka FIRs

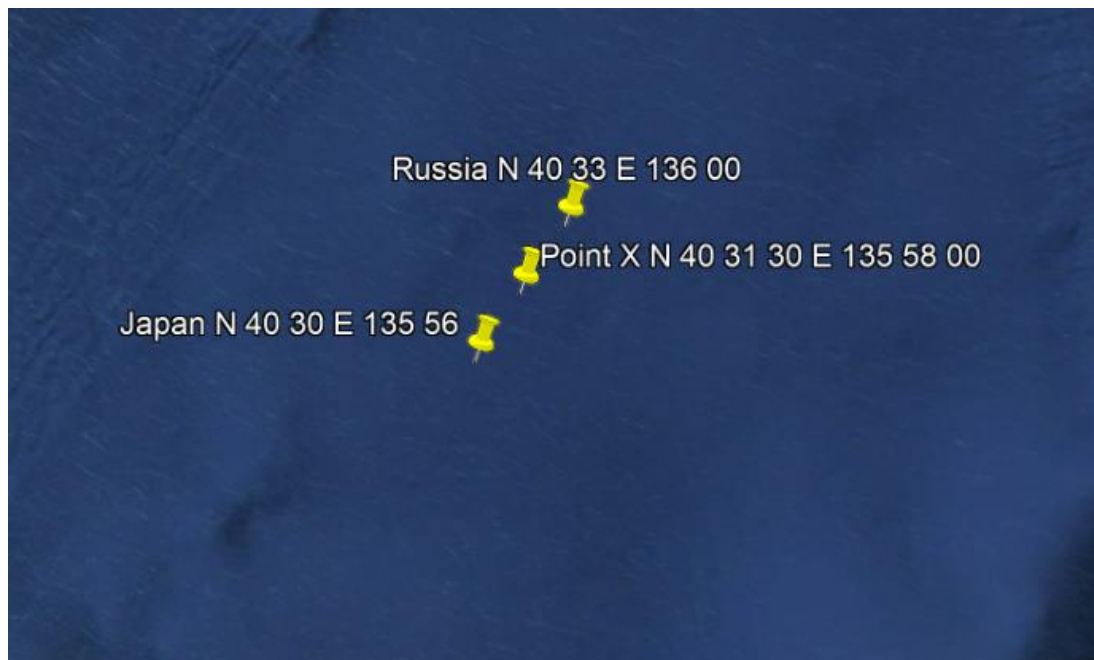
### Current Situation

As it appears that the Council had approved, first for Japan and then for Russia, two separate PfAs with different boundary coordinates, the ICAO Regional Office had communicated with ICAO HQ to request advice on whether this matter would be resolved by HQ or by the Regional Offices involved. ICAO HQ advised that it would be preferable for the Regional Offices to coordinate to resolve the situation.

### ICAO Proposal

ICAO proposes that the Russian Federation and Japan discuss the small difference in the single coordinate under the auspices of the ICAO European and North Atlantic (EUR/NAT) Office and Asia and Pacific (APAC) Offices, to determine which coordinate should be acceptable to the parties, either –

1. the Japanese coordinate (as approved by the President of the Council on 04 November 1996 as APAC 96/5 (**Figure 3**) and later in APAC 05/1-ATS related to the consolidation of the Tokyo and Naha FIR to Fukuoka FIR); or
2. the coordinate used by the Russian Federation (as approved by the President EUR/NAT 08/11-ATS on 03 September 2009); or
3. a compromise such as that shown in **Figure 2**.



**Figure 2:** Point X

Proposal for Amendment of Air Navigation Plan  
(Serial No. APAC 96/5 - ATS)

- a) **Plan:** MID/ASIA, Doc 8700, as amended by the ASIA/PAC RAN/3 Meeting, Bangkok, 19 April - 7 May 1993 (Doc 9614, ASIA/PAC/3) and EUR, Doc 7754, as updated by Amendment No. 22 dated 25 September 1994
- b) **Proposed amendment** *Amend* the requirement for the common boundary between Pyongyang and Vladivostok flight information regions (FIRs) as follows;  
  
Along the State frontier between the Democratic People's Republic of Korea and the Russian Federation to the point 4217.6N 13041.8E and further along straight lines connecting this point with the following points: 4209.0N 13053.0E to 4140.0N 13131.0E to 4030.0N 13556.0E.  
  
(cf. Doc 8700 Chart ATS 1, ATS 2, ATS 3 and ATS 3B)  
(cf. Doc 7754 Chart ATS 1C)
- c) **Originated by:** Democratic People's Republic of Korea and Russian Federation.
- d) **Originator's reasons for amendment:** To realize more economic and safe international ATS routes for the development of international civil aviation in the future.
- e) **Intended date of implementation:** Upon approval of the Council
- f) **Proposal circulated to the following States and International Organizations:**
- |   |                      |
|---|----------------------|
| Canada                                  | Republic of Korea    |
| China                                   | Russian Federation * |
| Democratic People's Republic of Korea * | United States        |
| Japan                                   | IATA                 |
|   | IFALPA               |

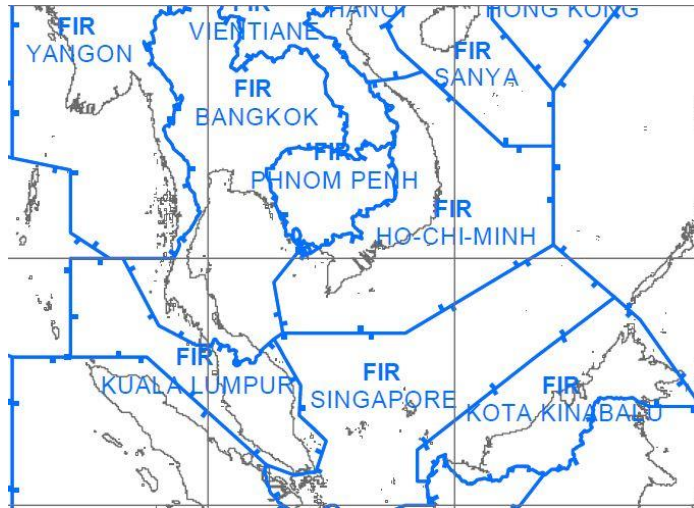
\* For information only

Figure 3: APAC 96/5

## Bangkok-Phnom Penh-Ho Chi Minh FIRs

### Background

The Phnom Penh FIR has never been formally designated by a Regional Air Navigation (RAN) Meeting or a Proposal for Amendment (PfA) to the Regional Air Navigation Plan (RANP). The only reference in ICAO formal documents is in ICAO Doc 7030 – Regional Supplementary Procedures, which shows the Phnom Penh FIR being only over the mainland portion of Cambodia’s territory (**Figure 1**).



**Figure 1:** Doc 7030 Excerpt

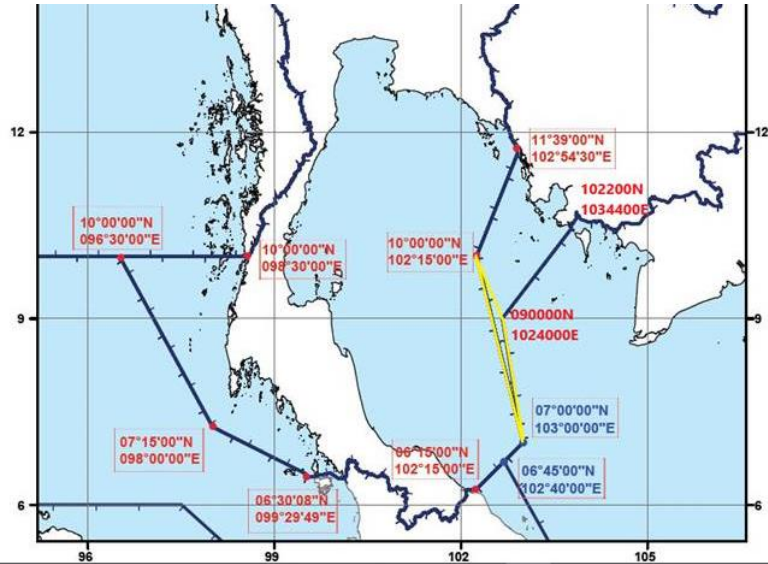
The informal (and often incorrect) ICAO Geographic Information Service (GIS) maps show an extension of the Phnom Penh FIR over Sihanoukville Province’s islands (**Figure 2**).



**Figure 2:** ICAO GIS Excerpt

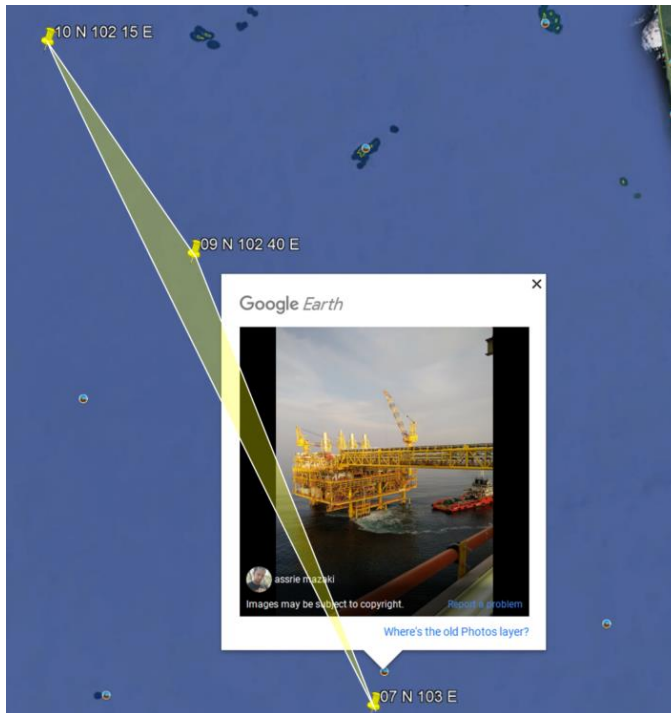
Current Situation

In addition to the extension over the Sihanoukville Province’s islands, Cambodia have submitted a PfA that also includes a ‘sliver’ of airspace to position 07°N, 103°E, shown outlined in yellow (**Figure 3**).



**Figure 3:** Airspace ‘Sliver’ Extension

There does not appear to be any sovereign territory within the ‘sliver’ of airspace. It should be noted that under the UN Convention on the Law of the Sea, artificial islands and installations such as oil rigs are not taken into account to determine sovereign territory UNCLOS Article 60, Section 8). In any case, there did not appear to be any oil rigs within the airspace concerned (**Figure 4**).



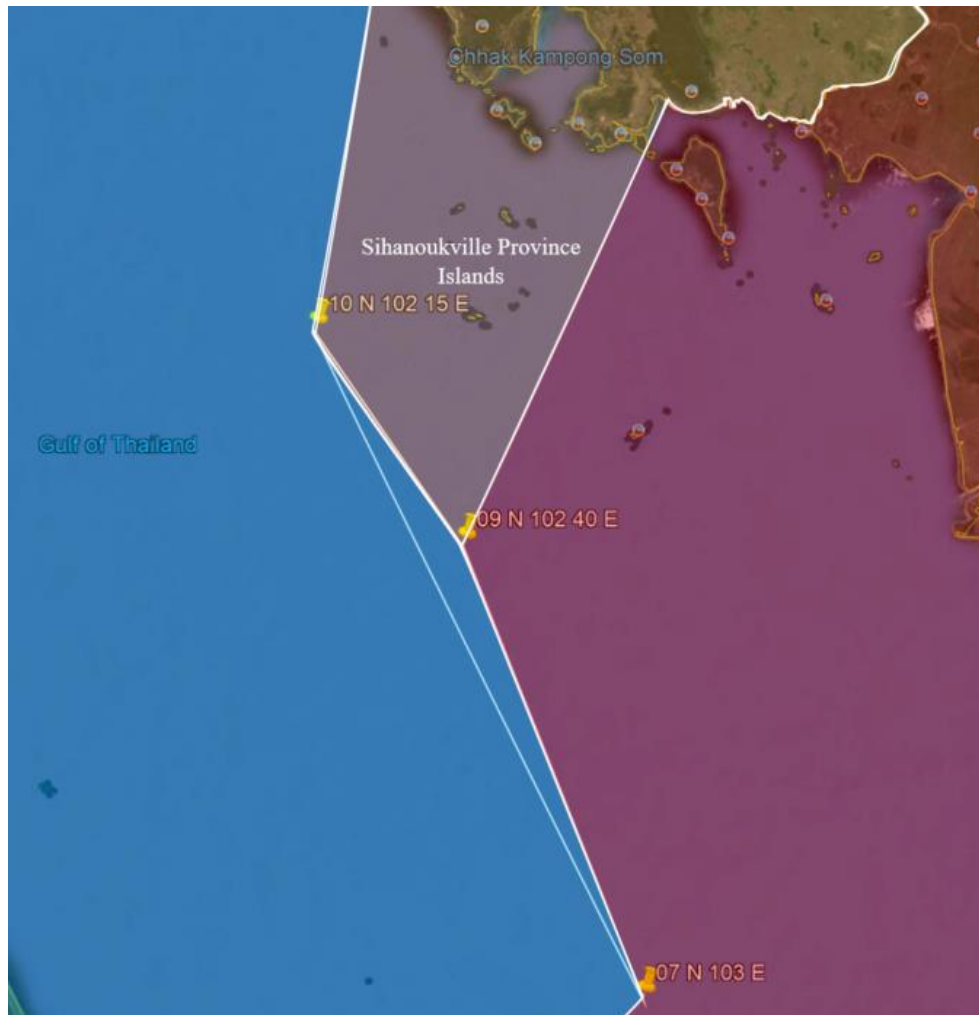
**Figure 4:** Airspace Sliver Enlargement

Cambodia advised that the sliver of airspace had been historically ‘delegated’ to the Ho Chi Minh Area Control Centre (ACC) and had been ‘returned’ to the Phnom Penh ACC on 10 November 2016 by a Letter of Agreement (LOA). As the airspace concerned over the high seas had not been delegated to Cambodia by the ICAO Council, there does not appear to be any legal basis on which Cambodia, and then Viet Nam concerned ‘delegated’ the airspace.

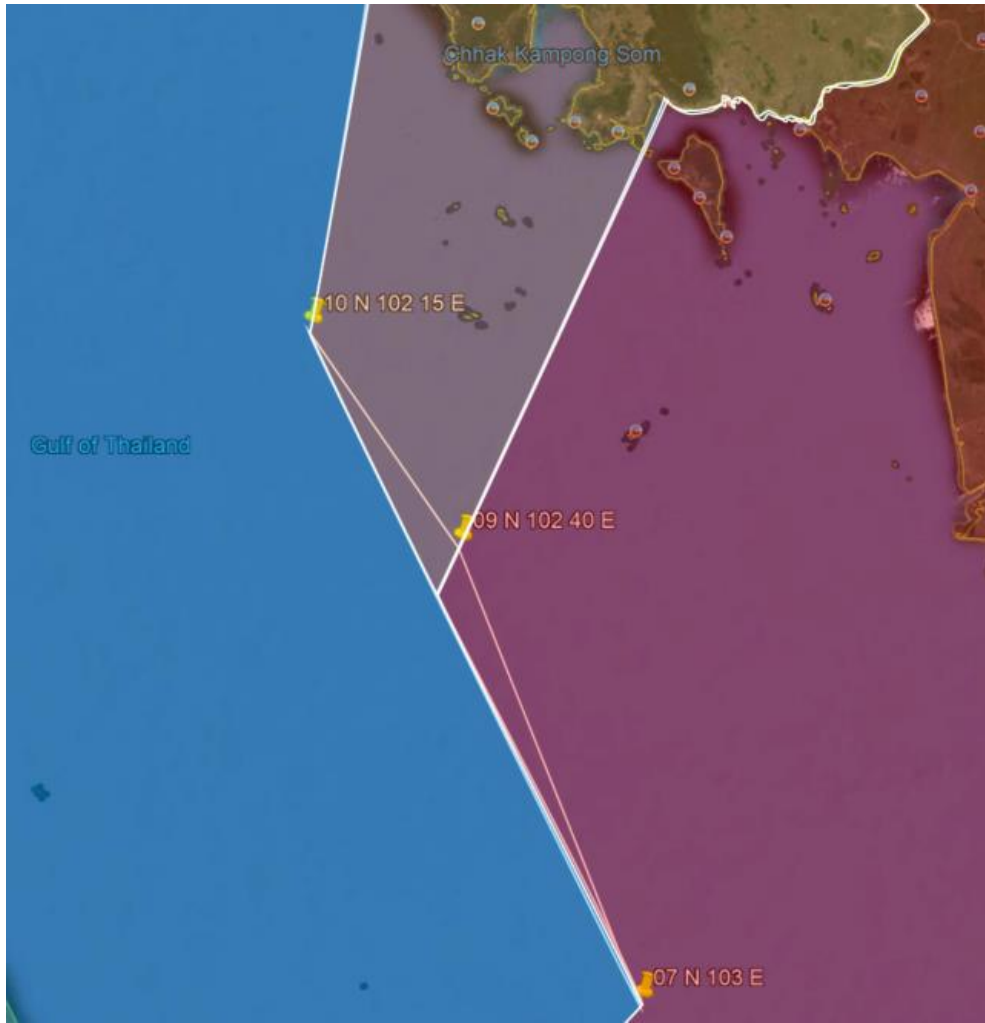
### ICAO Proposal

ICAO has no objections to the extension of the Phnom Penh FIR to encompass the Sihanoukville Province’s islands. However, ICAO had not determined any operational or technical basis for the ‘sliver’ of airspace extension to be part of the Phnom Penh FIR. Moreover, this airspace is an potential impediment to safe and efficient air traffic in terms airspace complexity and unnecessary airways charges.

ICAO proposes that the Phnom Penh be established either extending to 10 N, 102 15 E – 09 N, 102 40 E to encompass the Sihanoukville Province’s islands with the Bangkok ACC providing services within the ‘sliver’ of airspace (**Figure 5**), or as a second option, or slightly beyond this as shown in **Figure 6** if Viet Nam and Cambodia share provision within this airspace. The States should discuss this and advise ICAO.



**Figure 5:** Bangkok ACC Option



**Figure 6:** Phnom Penh/Ho Chi Minh ACCs Option

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