



International Civil Aviation Organization

**First Meeting of the Asia/Pacific Regional Search and Rescue Working Group  
(APSAR/WG/1)**

Bangkok, Thailand, 15 – 19 August 2016

---

**Agenda Item 2: Review Outcomes of Related Meetings**

**RELATED MEETING OUTCOMES**

(Presented by the Secretariat)

**SUMMARY**

This paper presents information on search and rescue from relevant meetings.

**1. INTRODUCTION**

1.1 The following meetings and events were of topical interest to the APSAR/WG:

- Twenty-Sixth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/26, Bangkok, Thailand, 07-10 September 2015);
- Fifty-Second Conference of Directors General of Civil Aviation, Asia and Pacific Regions (DGCA/52, Manila, the Philippines from 26 to 29 October 2015 (*note: the Fifty-Third DGCA Meeting was being held in early August 2016 at the time of this paper being prepared*);
- Fourth Meeting of the APANPIRG Air Traffic Management Sub-Group (ATM/SG/4, Bangkok, Thailand, 04 to 8 July 2016); and
- ICAO AFI/APAC/MID Regional and Inter-regional Workshop on the Provision and Improvement of SAR Services in the AFI Region (Mahe, Seychelles, 19-22 July 2016).

**2. DISCUSSION**

APANPIRG/26

2.1 APANPIRG/26 (Bangkok, Thailand, 07-10 September 2015) agreed to the following SAR-related Conclusions and Decisions:

***Conclusion 26/20 – SAR Air Navigation Report Form***

*That, the Search and Rescue (SAR) Air Navigation Report Form (ANRF) as appended at APANPIRG/26/WP07/Appendix M be utilised by Asia/Pacific States as a means of regional strategic SAR planning and implementation in the Asia/Pacific Region.*

***Conclusion 26/21 – SAR Lessons Learnt***

*That, considering the implications for Search and Rescue standards from recent events which required initiation of SAR actions, ICAO, in coordination with the IMO through the ICAO/IMO Joint Working Group on Harmonisation of Aeronautical and Maritime SAR*

*(JWG), should consider urgently updating global SAR documents from the lessons learnt.*

**Conclusion 26/22 – Asia/Pacific SAR Plan**

*That, regarding the Asia/Pacific Search and Rescue (SAR) Plan Version 1.0 attached as APANPIRG/26/WP07/Appendix R, ICAO be requested to:*

- a) make the SAR Plan available on the ICAO Asia/Pacific Regional Office web site;*
- b) reference the SAR Plan within the Asia/Pacific Seamless ATM Plan;*
- c) add the following elements to the Asia/Pacific Seamless ATM monitoring and reporting scheme:*

- *SAR Regulatory and Coordination Mechanisms;*
- *SAR Facilities and Assets;*
- *SAR Information;*
- *SAR Improvement; and*

- d) conduct Asia/Pacific SAR Planning and Implementation Seminars/ Workshops for Asia/Pacific States.*

**Conclusion 26/23 – State SAR Planning**

*That, States should be urged to:*

- a) review Version 1.0 of the Asia/Pacific SAR Plan and utilise the SAR Plan to develop planning for State implementation of applicable SAR elements;*
- b) ensure relevant decision-makers are briefed on the SAR Plan;*
- c) submit the first SAR Plan Seamless ATM monitoring information to the ICAO Regional Office by 01 March 2016; and*
- d) where possible, participate and contribute to SAR Plan system collaborative training and research initiatives.*

**Decision 26/24 – Asia/Pacific SAR Workgroup**

*That, the Asia/Pacific Search and Rescue (SAR) Task Force be disestablished and an Asia/Pacific SAR Workgroup (APSAR/WG) be established in accordance with the Terms of Reference at APANPIRG/26/WP07/Appendix S.*

2.2 APANPIRG/26 agreed to add the following administrations to the Air Navigation Service (ANS) Deficiency List (**Attachment A**) for SAR deficiencies:

- Afghanistan;
- Bhutan;
- Cambodia;
- Cook Islands;
- DPR Korea;
- Fiji;
- Kiribati;
- Lao PDR;
- Macau China;
- Maldives;
- Marshall Islands;
- Micronesia;
- Myanmar;

- Nauru;
- Nepal;
- New Caledonia;
- Palau;
- Papua New Guinea;
- Philippines;
- Samoa;
- Solomon Islands;
- Timor Leste;
- Tonga; and
- Vanuatu.

DGCA/52

2.3 Relevant Action Items resulting from the DGCA/52 meeting were as follows:

Discussion Paper No.	Action Item	Agenda Item 3.3 : Air Navigation matters
DP/3.3/9	Action Item 52/13	<b>Regional RPAS Collaboration</b> Noting the challenges faced by aviation regulators in the face of the rapid emergence of remotely piloted aircraft systems, the Conference agreed: a) to Singapore hosting an Asia-Pacific Regional RPAS information sharing forum in 2016; and b) for APRAST/RASG to consider establishing a RPAS Task Force and coordinate with appropriate bodies responsible for safety and security in respect of on-going Regional RPAS collaboration and information sharing.

ATM/SG/4

2.4 The ATM/SG/4 noted that significant Annex 12 compliance weaknesses remained in the Southwest Pacific and improvement was necessary in several Asian States:

- Afghanistan;
- DPRK;
- Maldives;
- Myanmar;
- Nepal; and
- the Philippines.

2.5 The ATM/SG was provided an update on the progress of Search and Rescue Region (SRR) description information for incorporation into the electronic Air Navigation Plan (eANP). Meeting participants were invited to review relevant data and provide feedback to ICAO on the data's accuracy by Monday 22 August 2016, so APANPIRG/27 could be updated.

2.6 The meeting noted that in the first round of consultation, 11 of the 30 administrations responded (only 36.7%). After the second round, 14 administrations had responded (46.7%). This represented a relatively poor response, given the importance of Flight Information Regions (FIRs) and SRRs. States which did not respond are as follows:

2.7 Afghanistan, Cambodia, Democratic People's Republic of Korea, French Polynesia (France), Indonesia, Lao People's Democratic Republic, Malaysia, Mongolia, Myanmar, Nauru, Nepal, Pakistan, Papua New Guinea, Solomon Islands.

2.8 The ATM/SG/4 meeting agreed that with only one FIR ready for eANP insertion, that a further delay of one year would be recommended to APANPIRG before the FIR/SRR tables could be submitted for approval. States were urged to respond to the new State Letter that would be circulated by the ICAO Regional Office after the ATM/SG/4 to advise of their status.

2.9 The consultation overview is provided at **Attachment B** and the draft SSR information is provided at **Attachment C**.

#### ICAO AFI/APAC/MID Regional and Inter-regional Workshop

2.10 The main objective of the ICAO AFI/APAC/MID Regional and Inter-regional Workshop on the Provision and Improvement of Search and Rescue Services in the Africa-Indian Ocean Region was to bring together States from the four ICAO Regions, to share experiences, identify challenges and agree on measures to ensure harmonized SAR service provisions. From the Asia/Pacific, the ICAO APAC Office was represented, along with delegations from India and Indonesia.

2.11 The workshop familiarized participants with the latest developments at global, regional and interregional level pertaining to SAR services. In addition, available solutions to challenges facing States in implementing SAR requirements as provided for under Annex 12 (Search and Rescue services) to the Chicago Convention were considered. A search and rescue exercise (SAREX) was carried out by the Seychelles Joint Rescue Coordination Centre, in order to familiarize participants with SAR operational aspects.

2.12 The Workshop also provided an opportunity for the coordination of SAR Letter of Agreements (LOAs) between the present States, which will enhance the status of LOAs signed and may encourage more multilateral agreements.

2.13 In summary, the following general observations were noted by ICAOAPAC Office.

- Africa and the Middle East shared many of the same problems as Asia/Pacific nations, with under-developed SAR systems that were responsible for vast remote oceanic/arid/mountainous areas. In this regard, the AFI and MID States specifically noted with appreciation the Asia/Pacific SAR Plan.
- During the Workshop the Indian delegate announced that an Indian Air Force aircraft had sadly gone missing with 29 souls on board over the Indian Ocean from Chennai to Port Blair, reinforcing the importance of SAR.

2.14 Following are the main key points that were highlighted during the workshop based on the lessons learnt from MH370, QZ8501 and MS804, which are considered vital in order to enhance search and rescue services in the four ICAO Regions (APAC, ESAF, MID and WACAF) in an harmonized manner:

- a) Search and Rescue should be given appropriate support at all levels within the International Civil Aviation Organization (ICAO), including other international and regional organizations and States;

- b) ICAO should work with all stakeholders concerned with search and rescue to:
  - i. raise awareness on the importance of search and rescue at a high level and obtain the commitment of States in operationalizing SAR;
  - ii. create forums to enable signing of high-level multi-lateral SAR agreements and harmonization of SAR plans; and
  - iii. coordinate with States' Administrations, including donor States and organizations to improve the availability of SAR funds to support SAR activities, including for search and rescue exercise (SAREX) and the provisions of services during large scale SAR responses, such as Mass Rescue Operations (MRO).
- c) States should work together to share experiences, resources and develop regional or sub-regional SAR JRCC, projects, research development, SAREX, etc.;
- d) States should take necessary measures to enhance the competency of their SAR experts and workforce, including SAR inspectorate staff, through the organization of SAR courses with the support of ICAO and IMO as appropriate;
- e) States should ensure proper cooperation between all their national authorities concerned with SAR, such as aeronautical, military, maritime, etc. through the establishment of national SAR committees; and
- f) States, that have not done so, should finalize their SAR plans and coordinate SAR agreements with all adjacent States as a matter of urgency. States experiencing challenges in implementation should contact their relevant ICAO Regional Office, which will guide and support the coordination of SAR agreements.

2.15 A search and rescue exercise was organized by the Seychelles Joint Rescue Coordination Centre on the third day of the workshop and fifteen participants were selected to accompany the search and rescue units as observers. A de-briefing took place on Friday 22 July 2016, where comments and contributions from the floor specifying areas for improvement, including strengths and weaknesses were discussed and duly noted by Seychelles SAR team.

2.16 The workshop agreed to a set of actions associated with the responsible party and the timeline, necessary for improving SAR services (**Attachment D**).

## **ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) discuss the draft eANP data related to Table SAR I-1 Search and Rescue Regions; and
- c) discuss any relevant matters as appropriate.

.....

APSAR/WG/1  
WP01 Attachment A

**ATM/AIM/SAR Deficiencies List** (Updated 16 June 2016)

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>WGS-84</u>								
Requirements of Paragraph 3.7.1 of Annex 15	Afghanistan	WGS-84 - Not implemented	24/6/2014			Afghanistan	TBD	A
	Bangladesh	WGS-84 - Not implemented	24/6/2014			Bangladesh	TBD	A
	Bhutan	WGS-84 - Not implemented	2/7/1999	Data conversion completed, but not published		Bhutan	TBD	A
	Brunei Darussalam	WGS-84 - Not implemented	24/6/2014			Brunei Darussalam	TBD	A
	Cook Islands	WGS-84 - Not implemented	24/6/2014			Cook Islands	TBD	A
	Kiribati	WGS-84 - Not implemented				Kiribati	TBD	A
	Marshall Islands	WGS-84 - Not implemented	24/6/2014			Marshall Islands	TBD	A
	Micronesia	WGS-84 - Not implemented	24/6/2014			Micronesia	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Nauru	WGS-84 - Not implemented		Conferring with consultant		Nauru	TBD	A
	Pakistan	WGS-84 - Not implemented	24/6/2014			Pakistan	TBD	A
	Palau	WGS-84 - Not implemented	24/6/2014			Palau	TBD	A
	Philippines	WGS-84 - Not implemented	24/6/2014			Philippines	TBD	A
	Samoa	WGS-84 - Not implemented	24/6/2014			Samoa	TBD	A
	Thailand	WGS-84 - Not implemented	24/6/2014			Thailand	TBD	A
	Vanuatu	WGS-84 - Implemented at main airports	2/7/1999			Vanuatu	1999	A
<u>Airspace Classification</u>								
Requirements of Paragraph 2.6 of Annex 11	China	Airspace Classification - Not implemented	7/7/99		Difference to Annex 11 is published in AIP, China.	China	APANPIRG/19 updated, implementation planned by end 2010.	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Kiribati	Airspace Classification - Not implemented	7/7/99			Kiribati	TBD	A
	Nauru	Airspace Classification - Not implemented	7/7/99			Nauru	TBD	A
	Papua New Guinea	Airspace Classification - Not implemented	7/7/99			Papua New Guinea	Project in place	A
	Solomon Islands	Airspace Classification - Not implemented	7/7/99			Solomon Islands	TBD	A
<u>AIP Format</u>								
Requirements of Chapter 4 of Annex 15	Cook Islands	AIP Format - Not implemented	7/7/99			Cook Islands	ATM/AIS/SAR/G/1 6 (June 2006) updated - AIP COOK ISLANDS in new format in progress with assistance of New Zealand	A



APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Kiribati	AIP Format - Not implemented	7/7/99			Kiribati	ATM/AIS/SAR/SG/18 (June 2009) was advised AIP in draft stage	A
	Nauru	AIP Format - Not implemented	7/7/99			Nauru	ATM/AIS/SAR/SG/18 (June 2008) was advised work soon to start	A
	Papua New Guinea	AIP Format - Not implemented	7/7/99			Papua New Guinea	TBA	A
<u>AIS Quality Management System</u>								
Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	Afghanistan	AIS Quality Management System - Not implemented	24/6/2014			Afghanistan	TBD	A
	Bangladesh	AIS Quality Management System - Not implemented	24/6/2014			Bangladesh	TBD	A
	Bhutan	AIS Quality Management System - Not implemented	24/6/2014			Bhutan	TBD	A
	Brunei	AIS Quality Management	24/6/2014			Brunei	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Darussalam	System - Not implemented				Darussalam		
	Cambodia	AIS Quality Management System - Not implemented	24/6/2014			Cambodia	TBD	A
	Cook Islands	AIS Quality Management System - Not implemented	24/6/2014			Cook Islands	TBD	A
	DPR Korea	AIS Quality Management System - Not implemented	24/6/2014			DPR Korea	TBD	A
	Indonesia	AIS Quality Management System - Not implemented	24/6/2014			Indonesia	TBD	A
	Kiribati	AIS Quality Management System - Not implemented	24/6/2014			Kiribati	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Lao PDR	AIS Quality Management System - Not implemented	24/6/2014			Lao PDR	TBD	A
	Maldives	AIS Quality Management System - Not implemented	24/6/2014			Maldives	TBD	A
	Marshall Islands	AIS Quality Management System - Not implemented	24/6/2014			Marshall Islands	TBD	A
	Micronesia	AIS Quality Management System - Not implemented	24/6/2014			Micronesia	TBD	A
	Nauru	AIS Quality Management System - Not implemented	24/6/2014			Nauru	TBD	A
	Nepal	AIS Quality Management System - Not	24/6/2014			Nepal	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
		implemented						
	Pakistan	AIS Quality Management System - Not implemented	24/6/2014			Pakistan	TBD	A
	Palau	AIS Quality Management System - Not implemented	24/6/2014			Palau	TBD	A
	Papua New Guinea	AIS Quality Management System - Not implemented	24/6/2014			Papua New Guinea	TBD	A
	Philippines	AIS Quality Management System - Not implemented	24/6/2014			Philippines	TBD	A
	Samoa	AIS Quality Management System - Not implemented	24/6/2014			Samoa	TBD	A
	Solomon Islands	AIS Quality Management System - Not	24/6/2014			Solomon Islands	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
		implemented						
	Thailand	AIS Quality Management System - Not implemented	24/6/2014			Thailand	TBD	A
	Timor Leste	AIS Quality Management System - Not implemented	24/6/2014			Timor Leste	TBD	A
	Vanuatu	AIS Quality Management System - Not implemented	24/6/2014			Vanuatu	TBD	A
	Viet Nam	AIS Quality Management System - Not implemented	24/6/2014			Viet Nam	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>SAR capability</u>								
Requirements of Annex 12	Afghanistan	SAR Capability Matrix	6/07/2015	SAR Capability (no data)		Afghanistan	2016	U
	Bhutan	SAR Capability Matrix	6/07/2015	SAR Capability (no data)		Bhutan	2016	U
	Cambodia	SAR Capability Matrix	6/07/2015	SAR Capability (14 of 20)		Cambodia	2016	U
	Cook Islands	SAR Capability Matrix	6/07/2015	SAR Capability (19 of 20)		Cook Islands	2016	U
	Cook Islands	Annex 12 requirements not implemented. No agreements with adjacent States.	31/1/95		Cook Islands - implement Annex 12 requirements and co- ordinate LOA with adjacent States ICAO - assist to develop SAR capability and to co-ordinate with adjacent States	Cook Islands	2009. SAR agreement with New Zealand completed 2007.	U
	DPR Korea	SAR Capability Matrix	6/07/2015		SAR Capability (15 of 20 elements non- compliant)	DPR Korea	2016	U

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Fiji	SAR Capability Matrix	6/07/2015		SAR Capability (13 of 20 elements non- compliant)	Fiji	2016	U
	Kiribati	SAR Capability Matrix	6/07/2015		SAR Capability (no data)	Kiribati	2016	U
	Lao PDR	SAR Capability Matrix	6/07/2015		SAR Capability (10 of 20 elements non- compliant)	Lao PDR	2016	U
	Macau, China	SAR Capability Matrix	6/07/2015		SAR Capability (10 of 20 elements non- compliant)	Macau, China	2016	U
	Maldives	SAR Capability Matrix	6/07/2015		SAR Capability (9 of 20 elements non- compliant)	Maldives	2016	U

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Maldives	Annex 12 requirements not implemented. No agreements with adjacent States.	24/4/97	SAR services and facilities provided (details to be confirmed). SAR agreements with neighbouring States under development	Maldives - implement Annex 12 requirements and co-ordinate LOA with adjacent States ICAO - assist to develop SAR capability and to co-ordinate with adjacent States	Maldives	2009	U
	Marshall Islands	SAR Capability Matrix	6/07/2015		SAR Capability (no data elements non-compliant)	Marshall Islands	2016	U
	Micronesia	SAR Capability Matrix	6/07/2015		SAR Capability (20 of 20 elements non-compliant)	Micronesia	2016	U
	Myanmar	SAR Capability Matrix	6/07/2015		SAR Capability (17 of 20 elements non-compliant)	Myanmar	2016	U
	Nauru	SAR Capability Matrix	6/07/2015		SAR Capability (no data elements non-compliant)	Nauru	2016	U
	Nepal	SAR Capability Matrix	6/07/2015		SAR Capability (12 of 20 elements non-compliant)	Nepal	2016	U
	New Caledonia	SAR Capability Matrix	6/07/2015		SAR Capability (8 of 20 elements non-compliant)	New Caledonia	2016	U



APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Palau	SAR Capability Matrix	6/07/2015		SAR Capability (no data)	Palau	2016	U
	Papua New Guinea	SAR Capability Matrix	6/07/2015		SAR Capability (11 of 20 elements non-compliant)	Papua New Guinea	2016	U
	Philippines	SAR Capability Matrix	6/07/2015		SAR Capability (12 of 20 elements non-compliant)	Philippines	2016	U
	Samoa	SAR Capability Matrix	6/07/2015		SAR Capability (no data elements non-compliant)	Samoa	2016	U
	Solomon Islands	SAR Capability Matrix	6/07/2015		SAR Capability (no data)	Solomon Islands	2016	U
	Timor Leste	SAR Capability Matrix	6/07/2015		SAR Capability (no data)	Timor Leste	2016	U
	Tonga	SAR Capability Matrix	6/07/2015		SAR Capability (18 of 20 elements non-compliant)	Tonga	2016	U
	Vanuatu	SAR Capability Matrix	6/07/2015		SAR Capability (no data)	Vanuatu	2016	U

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>Non Provision of Safety-related Data</u>								
Requirement of Paragraph 3.3.5.1 of Annex 11 (provision of data for monitoring the height-keeping performance of aircraft)	India	Annex 11 requirement not implemented.		Established by RASMAG/20- failure to provide RVSM approvals summary data	Lack of	India		U
Requirement of Paragraph 3.3.5.1 of Annex 11 (provision of data for monitoring the height-keeping performance of aircraft)	Philippines	Annex 11 requirement not implemented.		Established by RASMAG/20- failure to provide RVSM approvals summary data		Philippines		U
Failure to provide RVSM Approval Data to the RMA	India	Annex 6 paragraph 7.2.6	RASMAG/20 and 21	Established by RASMAG/21 - Relevant APANPIRG Conclusions: 19/15 (Enhanced communications between States and RVSM RMAs); 23/15 (Long-Term Non-RVSM Approved Aircraft); and 23/16 (Safety Monitoring Data Provision).		India		U

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>Data Link Performance</u> <u>Monitoring and Analysis</u>								
Requirements of Paragraph 2.27.5 of Annex 11 not met.	China	Post-implementation monitoring not implemented	29/5/2015	Problem Reports not provided to CRA		China	TBD	A
	Indonesia	Post-implementation monitoring not implemented	29/5/2015	Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT.		Indonesia	TBD	A
	Malaysia	Post-implementation monitoring not implemented	29/5/2015	Problem Reports not provided to CRA.  Performance monitoring and analysis not reported to FIT.		Malaysia	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Myanmar	Post-implementation monitoring not implemented	29/5/2015	Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT.		Myanmar	TBD	A
	Maldives	Post-implementation monitoring not implemented	29/5/2015	Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT.		Maldives	TBD	A
	Sri Lanka	Post-implementation monitoring not implemented	29/5/2015	Not registered with competent CRA. Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT.	Agreed by FIT-Asia/5, endorsed by RASMAG/21	Sri Lanka	TBD	A

APSAR/WG/1  
WP01 Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Viet Nam	Post-implementation monitoring not implemented	29/5/2015	Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT.	Agreed by FIT-Asia/5, endorsed by RASMAG/21	Viet Nam	TBD	A

**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 letter ref.: T 3/10.1.3 – AP043/15 (ATM)</b>	<b>2<sup>nd</sup> round response to SL letter ref.: T 3/3.7 – AP153/15 (ATM)</b>	<b>3rd round response to SL letter ref.: T 3/3.7 – AP039/16 (ATM)</b>	<b>SRR Name</b>	<b>1<sup>st</sup> round response to SL letter ref.: T 3/3.7 – AP153/15 (ATM)</b>	<b>2<sup>nd</sup> round response to SL letter ref.: T 3/3.7 – AP039/16 (ATM)</b>
Afghanistan	KABUL	OAKX				KABUL		
Australia	BRISBANE	YBBB	Yes	Yes	Yes	AUSTRALIA	Yes	Yes
Australia	MELBOURNE	YMMM	Yes	Yes	Yes		Yes	Yes
Bangladesh	DHAKA	VGFR	Yes		Yes	DHAKA		Yes
Cambodia	PHNOM PENH	VDPP				PHNOM PENH		
China	BEIJING	ZBPE	Yes		Yes	BEIJING		Yes
China	GUANGZHOU	ZGZU	Yes		Yes	GUANGZHOU		Yes
China	HONG KONG	VHHK	Yes	Yes	Yes	HONG KONG	Yes	Yes
China	KUNMING	ZPKM	Yes		Yes	KUNMING		Yes
China	LANZHOU	ZLHW	Yes		Yes	LANZHOU		Yes
China	SANYA	ZJSA	Yes		Yes	SANYA		Yes
China	SHANGHAI	ZYSH	Yes		Yes	SHANGHAI		Yes
China	SHENYANG	ZYSH	Yes		Yes	SHENYANG		Yes
China	URUMQI	ZWUQ	Yes		Yes	URUMQI		Yes
China	WUHAN	ZHWH	Yes		Yes	WUHAN		Yes
Taiwan, China	TAIBEI					TAIBEI		
DPR Korea	PYONGYANG	ZKKP			Yes	PYONGYANG		Yes
French Polynesia (France)	TAHITI				Yes	TAHITI		Yes
India	CHENNAI	VOMF	Yes		Yes	CHENNAI		Yes
India	DELHI	VIDF	Yes		Yes	DELHI		Yes
India	KOLKATA	VECF	Yes		Yes	KOLKATA		Yes
India	MUMBAI	VABF	Yes		Yes	MUMBAI		Yes
Indonesia	JAKARTA	WIIF				JAKARTA		
Indonesia	UJUNG PANDANG	WAAF				UJUNG PANDANG		
Indeonesia						BALI		
Indonesia						BIAK		
Fiji	NADI	NFFF			Yes	NADI		Yes
Japan	FUKUOKA	RJJJ	Yes	Yes	Yes	TOKYO	Yes	Yes

Japan						NAHA		
Lao PDR	VIENTIANE	VLAO				VIENTIANE		
Malaysia	KOTA KINABALU	WBFC				KOTA KINABALU		
Malaysia	KUALA LUMPUR	WMFC				KUALA LUMPUR		
Maldives	MALE	VRMF		Yes	Yes	MALE	Yes	Yes
Mongolia	ULAANBAATAR	ZMUB				ULAANBAATAR		
Myanmar	YANGON	VYYY				YANGON		
Nauru	NAURU	ANAU			Yes	NAURU		Yes
Nepal	KATHMANDU	VNSM			Yes	KATHMANDU		Yes
New Zealand	AUCKLAND OCEANIC	NZZO	Yes	Yes	Yes	NEW ZEALAND	Yes	Yes
New Zealand	NEW ZEALAND	NZZC	Yes	Yes	Yes			
Pakistan	KARACHI	OPKR			Yes	KARACHI		Yes
Pakistan	LAHORE	OPLR			Yes	LAHORE		Yes
Papua New Guinea	PORT MORESBY	AYPM				PORT MORESBY		
Philippines	MANILA	RPHI		Yes	Yes	MANILA	Yes	Yes
Republic of Korea	INCHEON	RKRR		Yes		INCHEON	Yes	
Singapore	SINGAPORE	WSJC	Yes	Yes	Yes	SINGAPORE	Yes	Yes
Solomon Islands	HONIARA	AGGG				HONIARA		
Sri Lanka	COLOMBO	VCCF			Yes	COLOMBO		Yes
Thailand	BANGKOK	VTBB	Yes		Yes	BANGKOK	Yes	
United States of America	ANCHORAGE OCEANIC		Yes	Yes		HONOLULU	Yes	
United States of America	OAKLAND OCEANIC		Yes	Yes		JUNEAU	Yes	
						ELMENDORF		
						SAN FRANCISCO		
Viet Nam	HANOI	VVVV	Yes			HANOI	Yes	
Viet Nam	HO CHI MINH	VVTS	Yes			HO CHI MINH	Yes	

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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER

SRR	Lateral limits coordinates	Remarks
1	2	3
Kabul SRR (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.	




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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER

<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 clarify? 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.
--	--

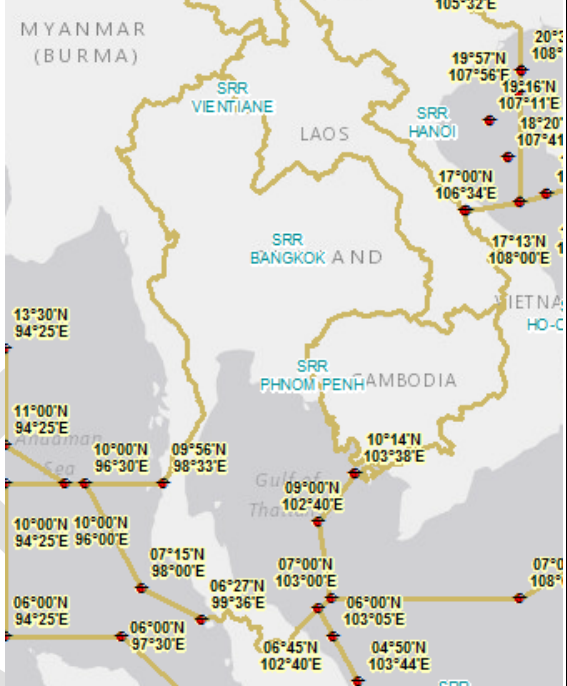
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<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>	
--	---	--


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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<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>	
---	---	---

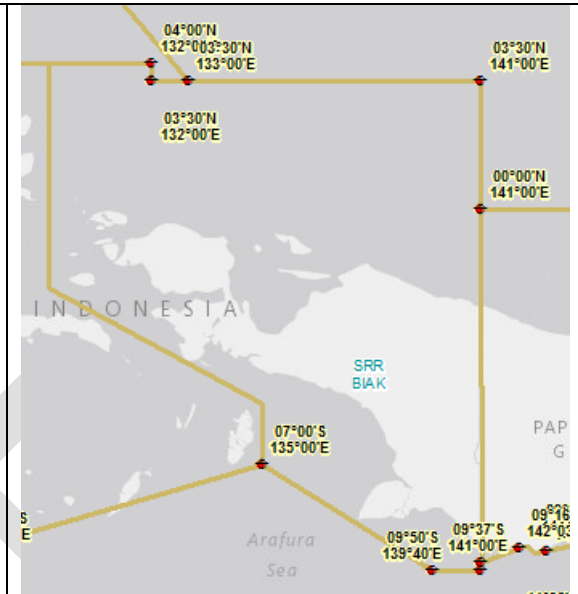
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<b>Beijing SRR</b> (Beijing FIR- SRR data not aligned)	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; <b>N 45 25 00, E 115 19 00.</b>	
---	---	--

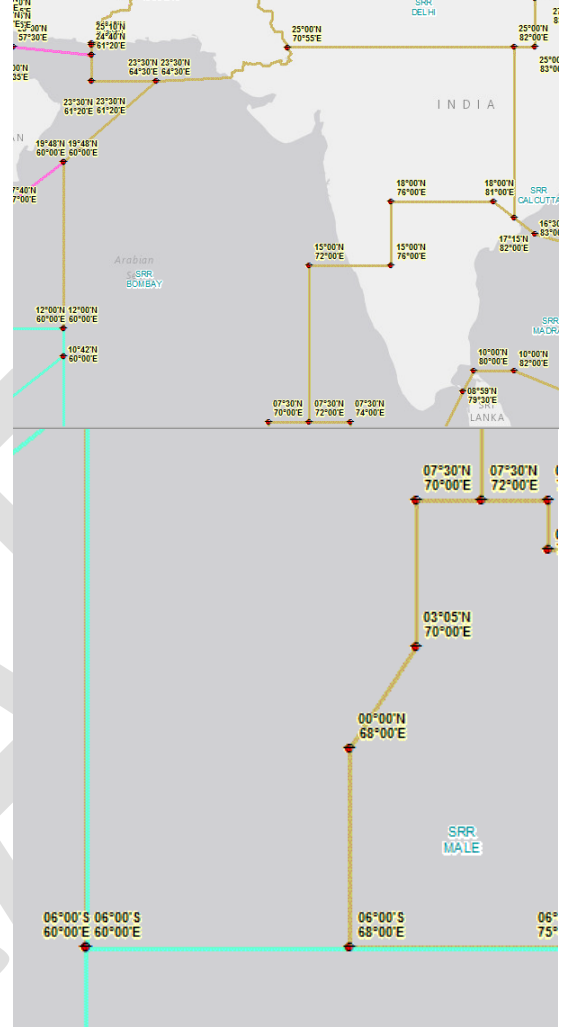
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<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>	
---	---	--

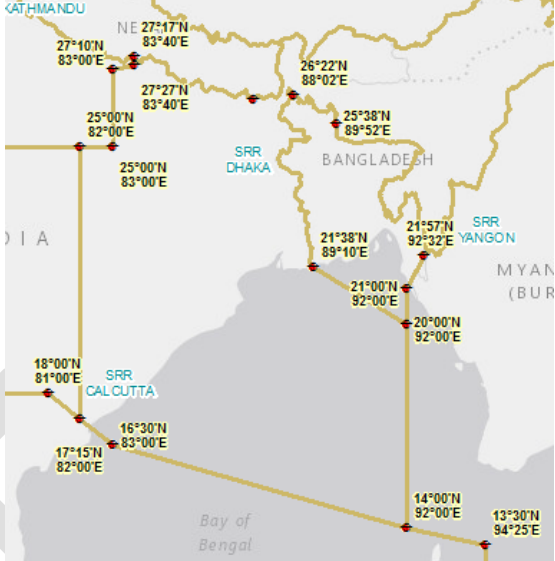
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<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; S 06 00 00, E 068 00 00; <b>S 06 00 00, E 060 00 00.</b></p>	
--	--	---

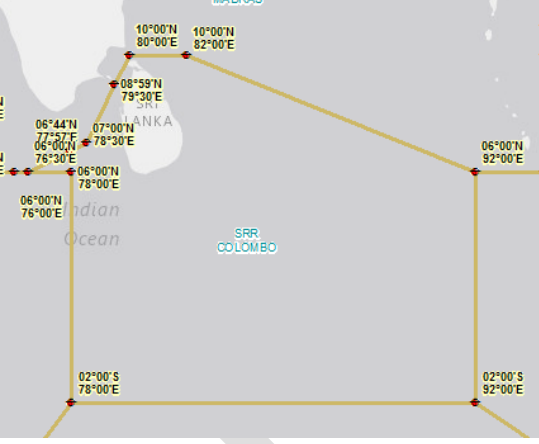
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<p><b>Calcutta SRR</b> (Kolkata FIR- Calcutta SRR data not aligned)</p>	<p>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.</p>	 <p>The map displays the Search and Rescue Regions (SRR) for Calcutta, Dhaka, and Yangon in South Asia. Key locations and coordinates shown include:</p> <ul style="list-style-type: none"> <li><b>KATHMANDU</b> (NE 27°17'N 83°40'E)</li> <li><b>SRR DHAKA</b> (27°10'N 83°00'E, 27°27'N 83°40'E, 25°00'N 82°00'E, 25°00'N 83°00'E)</li> <li><b>SRR CALCUTTA</b> (18°00'N 81°00'E, 17°15'N 82°00'E, 16°30'N 83°00'E)</li> <li><b>SRR YANGON</b> (26°22'N 88°02'E, 25°38'N 89°52'E, 21°38'N 89°10'E, 21°57'N 92°32'E, 21°00'N 92°00'E, 20°00'N 92°00'E, 14°00'N 92°00'E, 13°30'N 94°25'E)</li> <li><b>Other locations:</b> BANGLADESH, MYAN (BUR), Bay of Bengal.</li> </ul>
---	---	--

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


NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<p><b>Colombo SRR</b> (Colombo FIR-SRR data not aligned)</p>	<p>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.</p>	
--	---	--



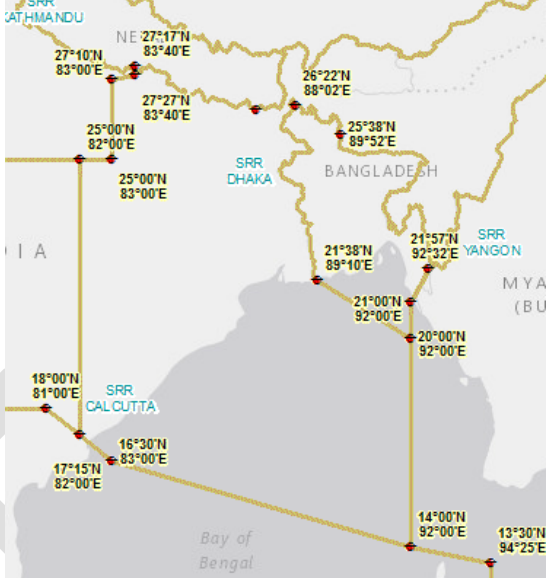
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<p><b>Delhi SRR</b> <b>(Delhi FIR)</b></p>	<p>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.</p>	 <p>The figure consists of two maps. The top map shows the SRR boundaries for LAHORE, KATHMANDU, and DELHI. It includes coordinate points such as 36°18'N 084°03'E, 30°26'N 81°37'E, 30°00'N 73°35'E, 27°10'N 83°00'E, 27°27'N 83°40'E, 25°00'N 82°00'E, 25°00'N 83°00'E, 25°00'N 70°55'E, and 27°10'N 83°00'E. The bottom map shows the FIR boundaries for LAHORE OPLR and DELHI VIDF. It includes coordinate points such as 30°00'N 73°35'E, 25°00'N 70°55'E, and 27°10'N 83°00'E.</p>
--	--	---

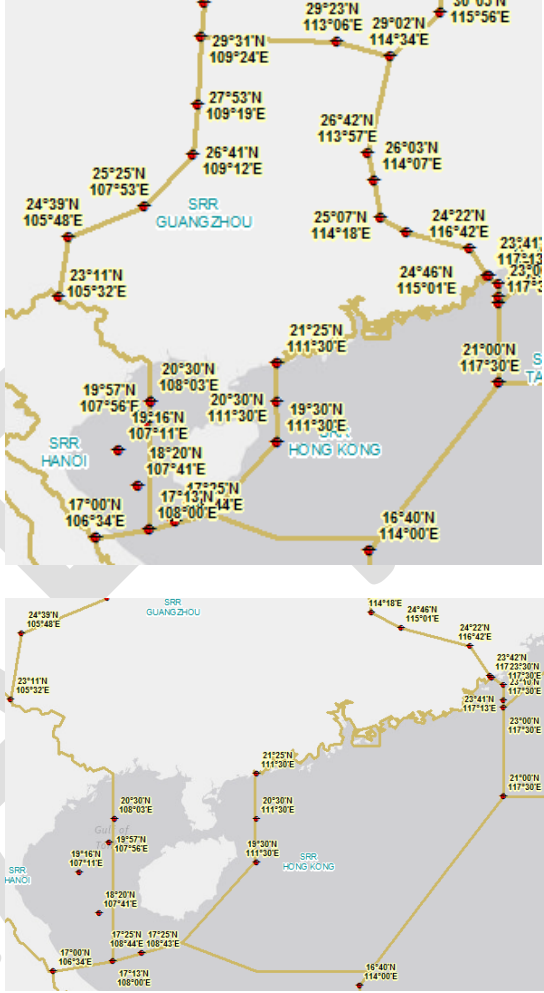
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<p><b>Dhaka SRR</b> (Dhaka FIR-SRR data not aligned)</p>	<p>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.</p>	 <p>The map displays the Search and Rescue Regions (SRR) for Kathmandu, Dhaka, Calcutta, and Yangon. The regions are defined by their boundaries and coordinates. The Bay of Bengal is shown to the south of the regions. The map includes the following coordinates for the SRR boundaries:</p> <ul style="list-style-type: none"> <li><b>KATHMANDU SRR:</b> NE 27°17'N 83°40'E, 27°10'N 83°00'E, 27°27'N 83°40'E, 25°00'N 82°00'E, 25°00'N 83°00'E.</li> <li><b>DHAKA SRR:</b> 26°22'N 88°02'E, 25°38'N 89°52'E, 21°38'N 89°10'E, 21°00'N 92°00'E, 20°00'N 92°00'E, 14°00'N 92°00'E, 13°30'N 94°25'E.</li> <li><b>CALCUTTA SRR:</b> 18°00'N 81°00'E, 16°30'N 83°00'E, 17°15'N 82°00'E.</li> <li><b>YANGON SRR:</b> 21°57'N 92°32'E.</li> </ul>
--	--	--

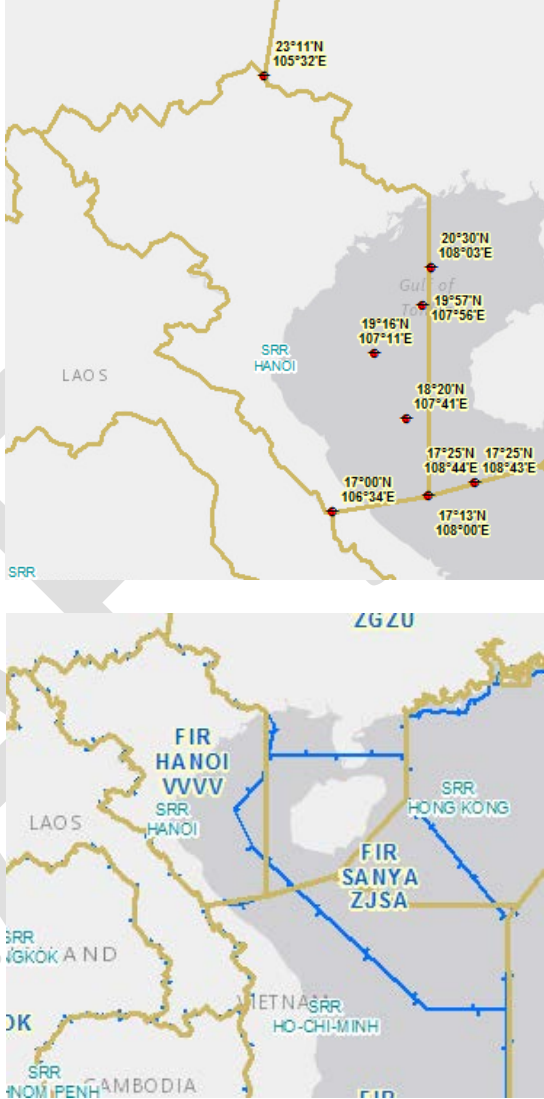
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<p><b>Guangzhou SRR</b> (Guangzhou FIR-SRR data not aligned)</p>	<p>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 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>The figure consists of two maps of the South China Sea region. The top map shows the SRR GUANGZHOU (Guangzhou Search and Rescue Region) and SRR HONG KONG. The bottom map shows the SRR GUANGZHOU, SRR HONG KONG, and SRR HANOI. Both maps display the boundaries of these regions with various coordinate points marked along the edges. The coordinates are listed in the table to the left of the maps.</p>
--	---	---

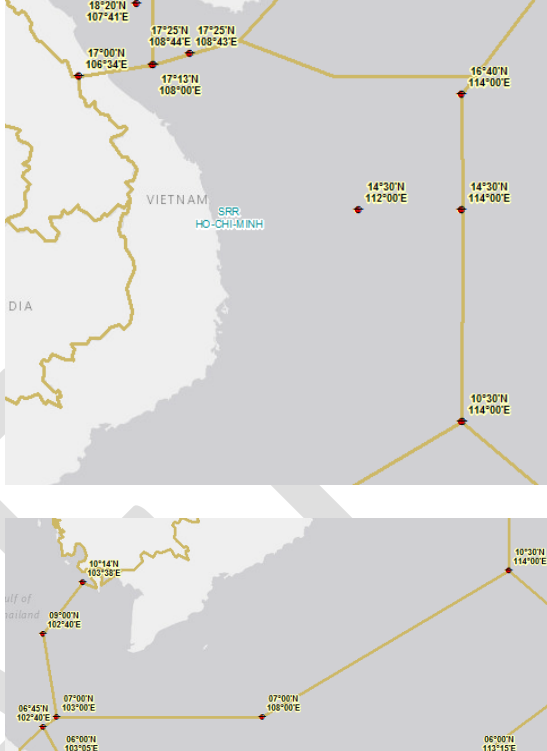
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<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>	
--	---	---

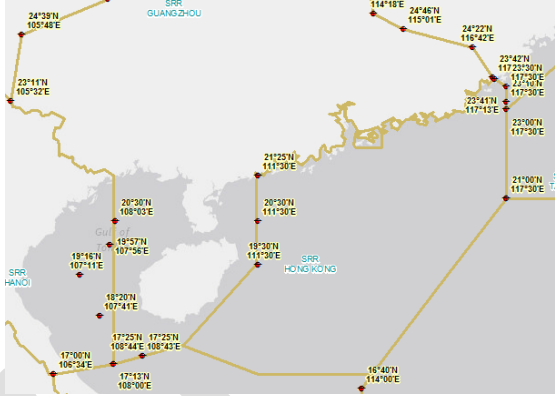
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<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; N 07 00 00, E 108 00 00; N 07 00 00, E 103 00 00; N 09 00 00, E 102 40 00.</p>	
--	---	---

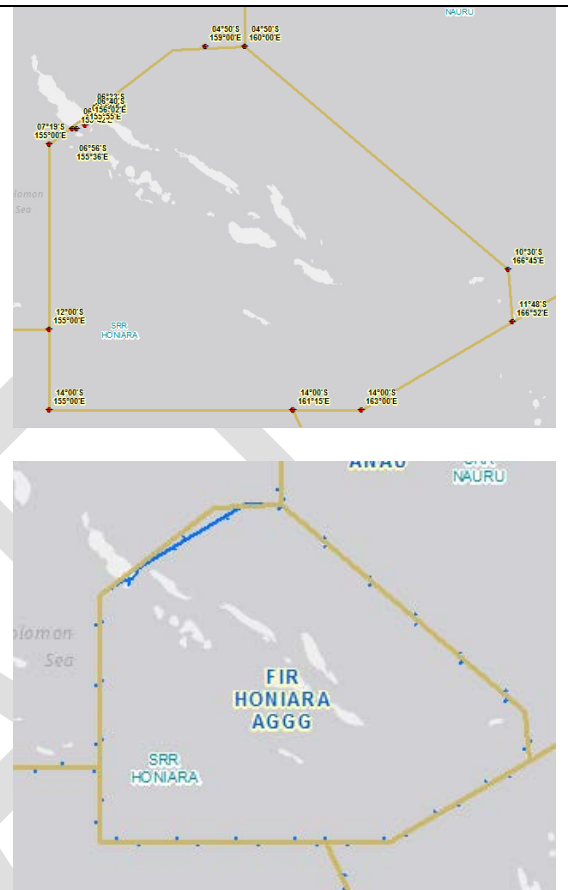
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<p><b>Hong Kong SRR</b> (Hong Kong FIR-SRR data not aligned)</p>	<p>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</p>	
--	--	--

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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<p><b>Honiara SRR</b> (Honiara FIR- SRR not aligned)</p>	<p>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; <b>S 10 30 00, E 166 45 00.</b></p>	 <p>The top map shows the SRR boundary with the following coordinates (from top to bottom): 04°50'S 160°00'E, 10°30'S 166°45'E, 11°48'S 166°32'E, 14°00'S 163°00'E, 14°00'S 161°15'E, 14°00'S 155°00'E, 12°00'S 155°00'E, 06°56'S 155°36'E, 06°56'S 155°42'E, 06°51'S 155°55'E, 06°40'S 156°02'E, 06°33'E 156°02'E, 10°30'S 166°45'E, and 04°50'S 158°00'E. The bottom map shows the SRR within the Honiara FIR (AGGG) and the Solomon Sea, with Nauru to the northeast.</p>
--	---	---

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

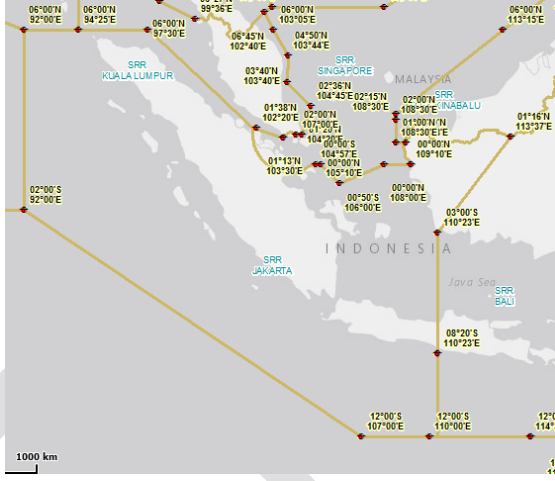
NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<p><b>Honolulu SRR</b> (Oakland Oceanic FIR – Honolulu SRR not aligned)</p>	<p>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 137 00 00; N 21 00 00, E 130 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 141 00 00; N/S 00 00 00, E 160 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, 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/E 180 00 00; S 05 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; N 40 00 00, E 165 00 00.</p> <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>	
---	--	--




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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<p><b>Jakarta SRR</b> <b>(Jakarta FIR)</b></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; <del>S 12 00 00, E 110 00 00;</del> 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; <del>N 06 00 00, E 094 25 00;</del> superfluous N 06 00 00, E 097 30 00; <del>N 01 38 00, E 102 20 00;</del> 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; <del>N/S 00 00 00, E 105 10 00;</del> S 00 50 00, E 106 00 00; <del>N/S 00 00 00, E 108 00 00;</del> missing coordinate <del>N/S 00 00 00, E 109 10 00;</del> 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 <del>N 01 00 00, E 108 58 00;</del> superfluous N 01 16 00, E 113 37 00.</p>	
--	---	--

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


NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER

<b>Juneau SRR</b> Anchorage Oceanic FIR- Juneau SRR not aligned	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.	
---	--	--

DRAFT


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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<p><b>Kabul SRR</b> (Kabul FIR)</p>	<p>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.</p>	 <p>The figure consists of two maps. The top map shows the SRR LAHORE region, with coordinates ranging from 30°00'N to 39°00'N and 66°19'E to 73°35'E. The bottom map shows the SRR KARACHI region, with coordinates ranging from 23°30'N to 25°15'N and 61°20'E to 64°30'E. Both maps include labels for AFGHANISTAN and PAKISTAN.</p>
---	---	--

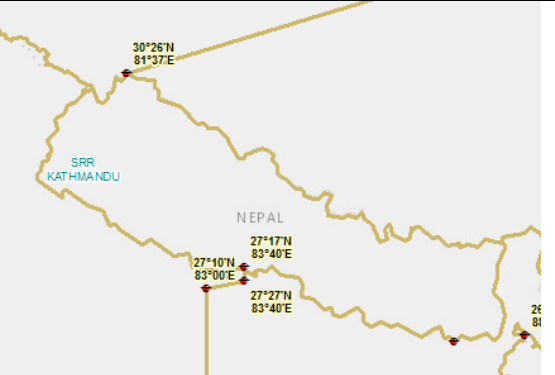
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<p><b>Karachi SRR</b> (Karachi FIR- SRR data not aligned)</p>	<p>N 23 30 00, E 061 20 00; N 24 40 00, E 061 20 00; 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; <b>N 23 30 00, E 061 20 00.</b> Check this – there should be mention of a national boundary</p>	
---	---	--


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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<b>Kathmandu SRR (Kathmandu FIR)</b>	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.	
--	--	--

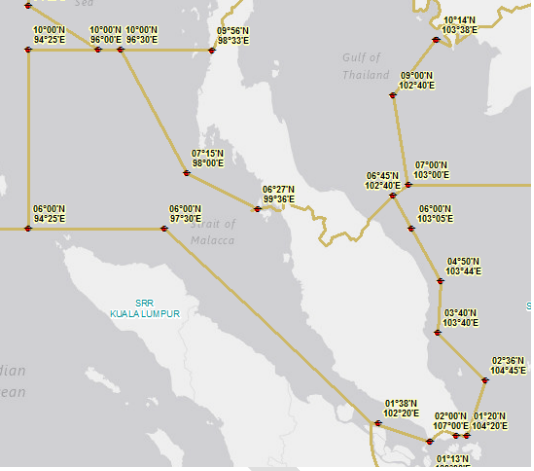
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<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; <del>N 02 00 00, E 108 30 00;</del> 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>	
---	--	--


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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<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; N 06 00 00, E 094 25 00; N 10 00 00, E 094 25 00; <del>N 10 00 00, E 096 00 00;</del> superfluous N 10 00 00, E 096 30 00; N 07 15 00, E 098 00 00; <del>N 06 27 00, E 099 36 00;</del> 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>	
---	--	--

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

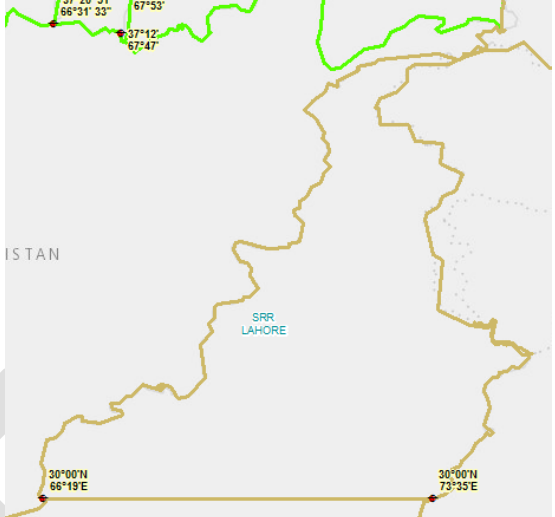
**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<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; <b>N 31 54 00, E 109 31 00.</b></p>	
--	--	--




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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<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>	
---	---	--

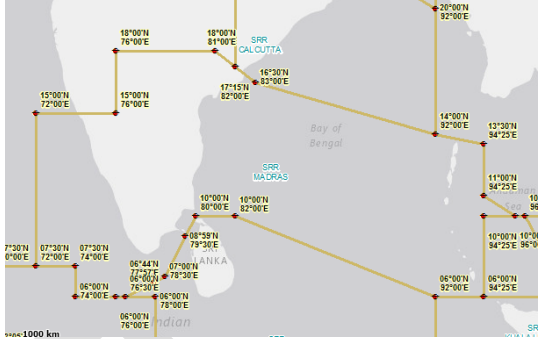
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<p><b>Lazhou SRR</b> (Lazhou 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; <b>N 41 44 00, E 105 13 00.</b></p>	
---	---	--

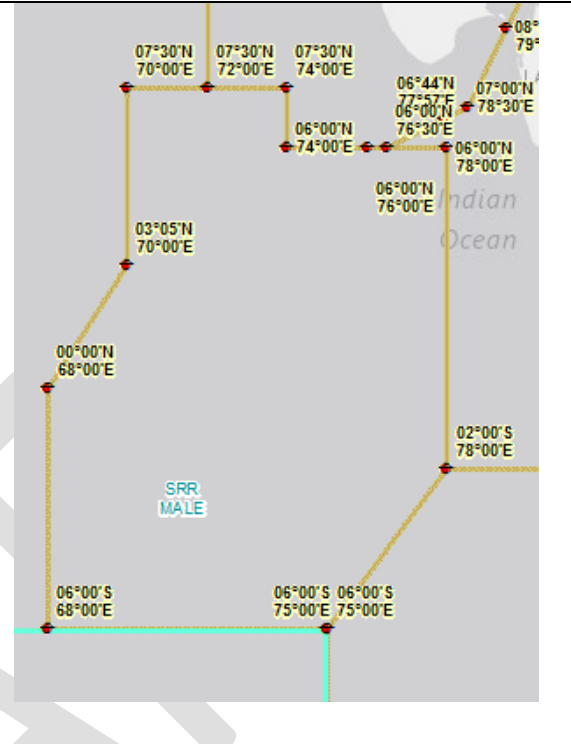
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<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.	
--	--	--

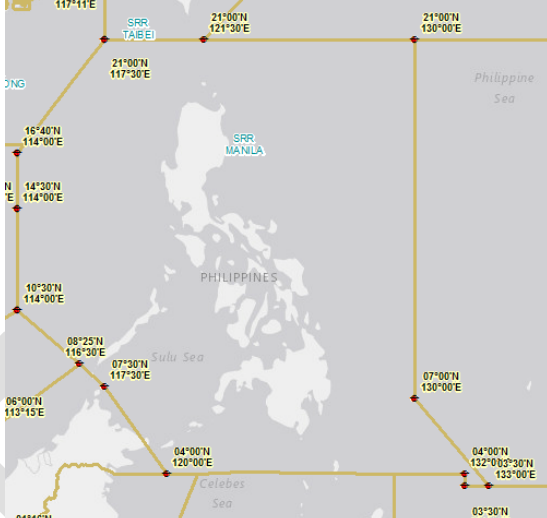
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<p><b>Male SRR</b> (Male FIR-SRR not aligned)</p>	<p>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.</p> <p>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.</p>	
---	--	---

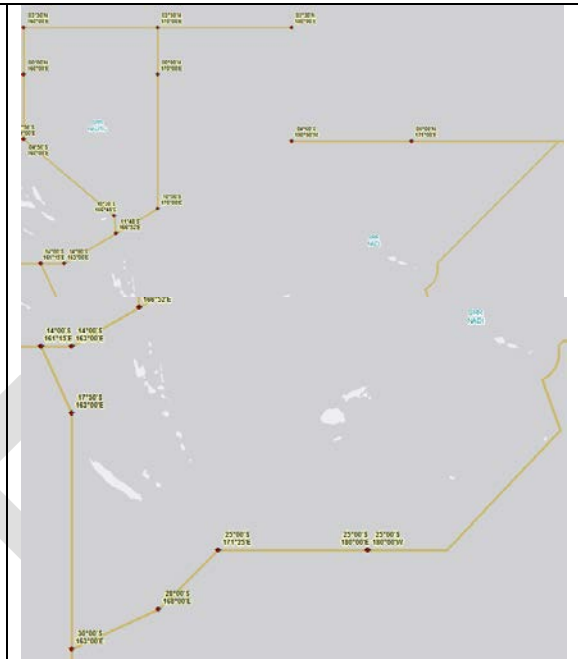
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<p><b>Manila SRR</b> (Manila FIR-SRR data not aligned)</p>	<p>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; 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>	
--	--	--

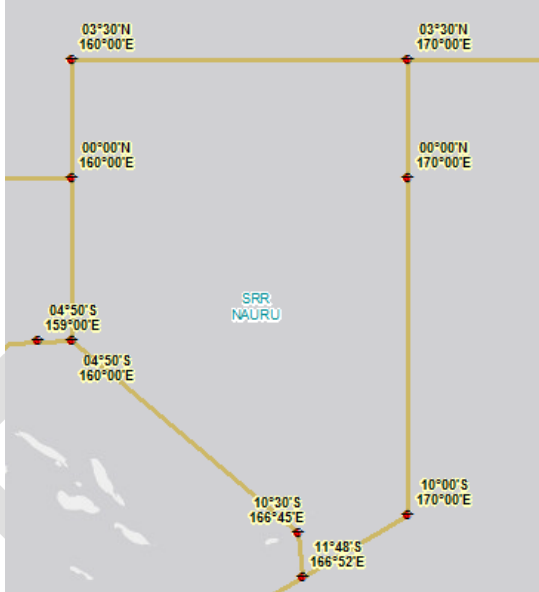
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<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; <b>N 03 30 00, W/E 180 00 00.</b></p>	
--	---	---


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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER

<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>	
---	---	--

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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<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; <del>S 90 00 00, W 180 00 00;</del> (line is superfluous); S 90 00 00, E 163 00 00.</p>	
--	--	--



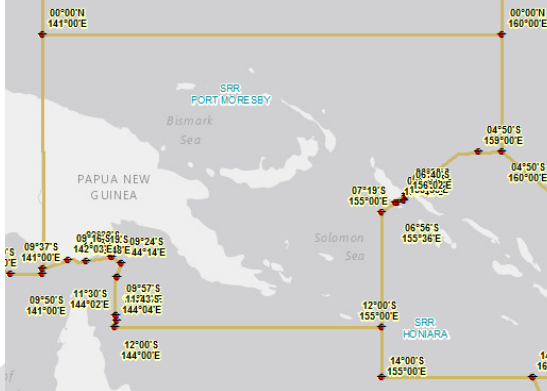
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER

<p><b>Phnom Penh SRR</b> (Phnom Penh FIR-SRR data not aligned)</p>	<p>No information on record</p>	
--	---------------------------------	--


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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<b>Port Moresby SRR</b> (Port Moresby FIR-SRR data not aligned)	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.	
--	--	--

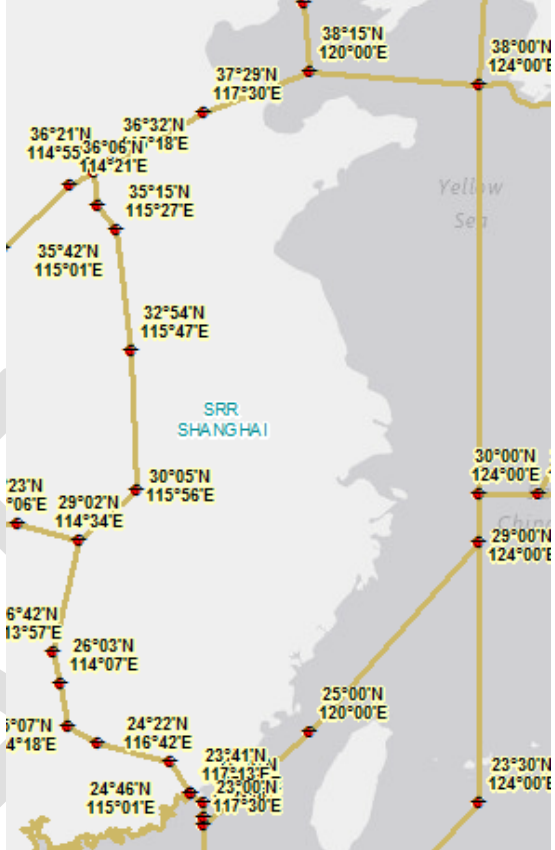
# TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<p><b>Pyongyang SRR</b> <b>(Pyongyang FIR)</b></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>	
--	--	--

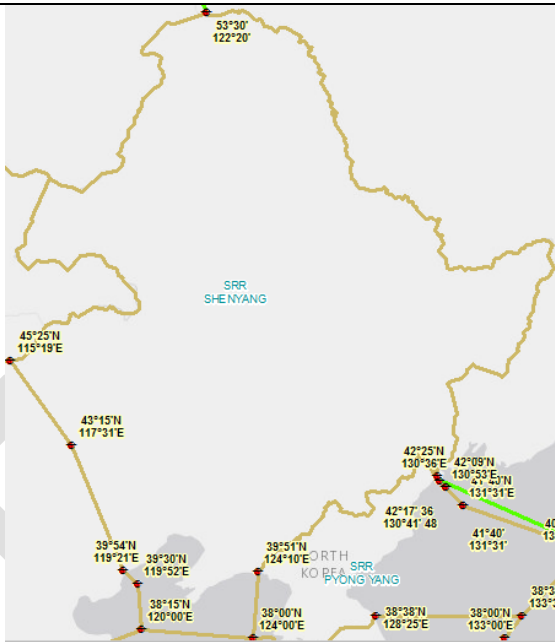
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

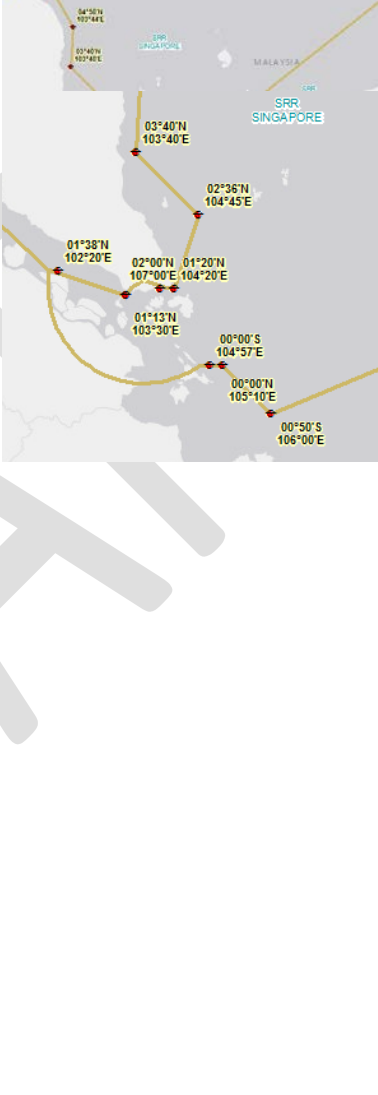
**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<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; 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; <b>N 36 32 00, E 115 18 00.</b></p>	
---	---	---

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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER


<p><b>Shenyang SRR</b> (Shenyang FIR-SRR data not aligned)</p>	<p>No information on record</p>	 <p>The map shows the Shenyang SRR region, which covers parts of northeastern China and the northern tip of North Korea. Key coordinate points marked on the map include:</p> <ul style="list-style-type: none"> <li>53°30'N 122°20'E</li> <li>45°25'N 115°15'E</li> <li>43°15'N 117°31'E</li> <li>39°54'N 119°21'E</li> <li>39°30'N 119°52'E</li> <li>38°15'N 120°00'E</li> <li>38°51'N 124°10'E</li> <li>38°00'N 124°00'E</li> <li>42°25'N 130°36'E</li> <li>42°09'N 130°53'E</li> <li>42°17'36" 130°41'48"</li> <li>41°40'N 131°31'E</li> <li>38°38'N 128°25'E</li> <li>38°00'N 133°00'E</li> <li>38°15'N 133°15'E</li> </ul> <p>The map also labels 'SRR SHENYANG' and 'SRR PYONGYANG'. A large 'DRAFT' watermark is overlaid on the map.</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; <del>N 01 00 00, E 108 58 00;</del> 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 <del>N 00 00 00, E 109 10 00;</del> 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; 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>The map displays the Singapore Search and Rescue Region (SRR) and its extension into the South China Sea. It includes the following details:</p> <ul style="list-style-type: none"> <li><b>Geographical Labels:</b> SINGAPORE, SRR SINGAPORE, MALAYSIA, SRR KOTA KINABALU.</li> <li><b>Coordinates:</b> Numerous latitude and longitude points are marked along the boundaries and flight paths, such as 03°40'N 103°40'E, 02°36'N 104°45'E, 01°38'N 102°20'E, 02°00'N 107°00'E, 01°13'N 103°30'E, 00°00'S 104°57'E, 00°00'N 105°10'E, 00°50'S 106°00'E, 00°00'N 108°00'E, 00°00'N 108°10'E, 01°00'N 108°30'E, 01°00'N 108°58'E, 02°00'N 108°30'E, 02°15'N 108°30'E, 02°36'N 104°45'E, 03°40'N 103°40'E, 04°50'N 102°40'E, 05°50'N 101°40'E, 06°50'N 100°40'E, 07°50'N 099°40'E, 08°50'N 089°40'E, 09°50'N 079°40'E, 10°50'N 069°40'E, 11°50'N 059°40'E, 12°50'N 049°40'E, 13°50'N 039°40'E, 14°50'N 029°40'E, 15°50'N 019°40'E, 16°50'N 009°40'E, 17°50'N 00°00'E, 18°50'N 00°00'E, 19°50'N 00°00'E, 20°50'N 00°00'E, 21°50'N 00°00'E, 22°50'N 00°00'E, 23°50'N 00°00'E, 24°50'N 00°00'E, 25°50'N 00°00'E, 26°50'N 00°00'E, 27°50'N 00°00'E, 28°50'N 00°00'E, 29°50'N 00°00'E, 30°50'N 00°00'E, 31°50'N 00°00'E, 32°50'N 00°00'E, 33°50'N 00°00'E, 34°50'N 00°00'E, 35°50'N 00°00'E, 36°50'N 00°00'E, 37°50'N 00°00'E, 38°50'N 00°00'E, 39°50'N 00°00'E, 40°50'N 00°00'E, 41°50'N 00°00'E, 42°50'N 00°00'E, 43°50'N 00°00'E, 44°50'N 00°00'E, 45°50'N 00°00'E, 46°50'N 00°00'E, 47°50'N 00°00'E, 48°50'N 00°00'E, 49°50'N 00°00'E, 50°50'N 00°00'E, 51°50'N 00°00'E, 52°50'N 00°00'E, 53°50'N 00°00'E, 54°50'N 00°00'E, 55°50'N 00°00'E, 56°50'N 00°00'E, 57°50'N 00°00'E, 58°50'N 00°00'E, 59°50'N 00°00'E, 60°50'N 00°00'E, 61°50'N 00°00'E, 62°50'N 00°00'E, 63°50'N 00°00'E, 64°50'N 00°00'E, 65°50'N 00°00'E, 66°50'N 00°00'E, 67°50'N 00°00'E, 68°50'N 00°00'E, 69°50'N 00°00'E, 70°50'N 00°00'E, 71°50'N 00°00'E, 72°50'N 00°00'E, 73°50'N 00°00'E, 74°50'N 00°00'E, 75°50'N 00°00'E, 76°50'N 00°00'E, 77°50'N 00°00'E, 78°50'N 00°00'E, 79°50'N 00°00'E, 80°50'N 00°00'E, 81°50'N 00°00'E, 82°50'N 00°00'E, 83°50'N 00°00'E, 84°50'N 00°00'E, 85°50'N 00°00'E, 86°50'N 00°00'E, 87°50'N 00°00'E, 88°50'N 00°00'E, 89°50'N 00°00'E, 90°50'N 00°00'E, 91°50'N 00°00'E, 92°50'N 00°00'E, 93°50'N 00°00'E, 94°50'N 00°00'E, 95°50'N 00°00'E, 96°50'N 00°00'E, 97°50'N 00°00'E, 98°50'N 00°00'E, 99°50'N 00°00'E, 100°50'N 00°00'E, 101°50'N 00°00'E, 102°50'N 00°00'E, 103°50'N 00°00'E, 104°50'N 00°00'E, 105°50'N 00°00'E, 106°50'N 00°00'E, 107°50'N 00°00'E, 108°50'N 00°00'E, 109°50'N 00°00'E, 110°50'N 00°00'E, 111°50'N 00°00'E, 112°50'N 00°00'E, 113°50'N 00°00'E, 114°50'N 00°00'E, 115°50'N 00°00'E, 116°50'N 00°00'E, 117°50'N 00°00'E, 118°50'N 00°00'E, 119°50'N 00°00'E, 120°50'N 00°00'E, 121°50'N 00°00'E, 122°50'N 00°00'E, 123°50'N 00°00'E, 124°50'N 00°00'E, 125°50'N 00°00'E, 126°50'N 00°00'E, 127°50'N 00°00'E, 128°50'N 00°00'E, 129°50'N 00°00'E, 130°50'N 00°00'E, 131°50'N 00°00'E, 132°50'N 00°00'E, 133°50'N 00°00'E, 134°50'N 00°00'E, 135°50'N 00°00'E, 136°50'N 00°00'E, 137°50'N 00°00'E, 138°50'N 00°00'E, 139°50'N 00°00'E, 140°50'N 00°00'E, 141°50'N 00°00'E, 142°50'N 00°00'E, 143°50'N 00°00'E, 144°50'N 00°00'E, 145°50'N 00°00'E, 146°50'N 00°00'E, 147°50'N 00°00'E, 148°50'N 00°00'E, 149°50'N 00°00'E, 150°50'N 00°00'E, 151°50'N 00°00'E, 152°50'N 00°00'E, 153°50'N 00°00'E, 154°50'N 00°00'E, 155°50'N 00°00'E, 156°50'N 00°00'E, 157°50'N 00°00'E, 158°50'N 00°00'E, 159°50'N 00°00'E, 160°50'N 00°00'E, 161°50'N 00°00'E, 162°50'N 00°00'E, 163°50'N 00°00'E, 164°50'N 00°00'E, 165°50'N 00°00'E, 166°50'N 00°00'E, 167°50'N 00°00'E, 168°50'N 00°00'E, 169°50'N 00°00'E, 170°50'N 00°00'E, 171°</li></ul>
---	---



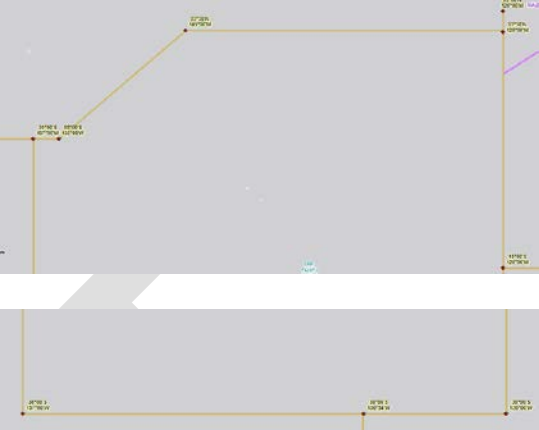
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<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; <del>N 38 38 00, E 128 25 00; GIS inconsistent</del> N 38 38 00, E 133 39 00.</p>	
---	---	--

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

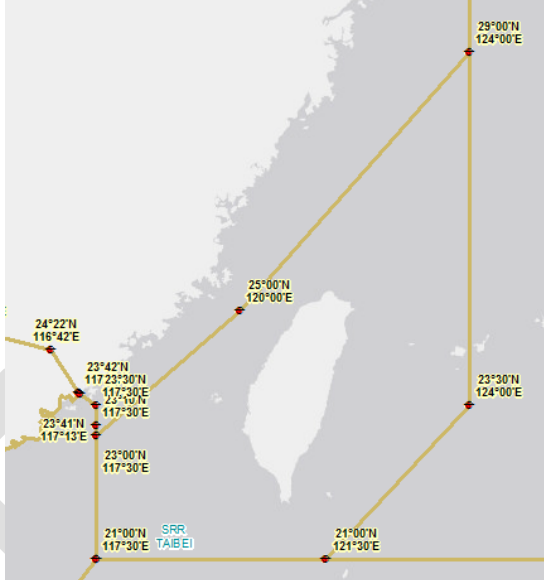
NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<b>Tahiti SRR</b> <b>(Tahiti FIR)</b>	<p>N 03 30 00, W 120 00 00;  S 05 00 00, W 155 00 00;  N 03 30 00, W 145 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 120 00 00.</p>	
--	---	--




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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<b>Taipei SRR</b> <b>(Taipei SRR)</b>	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; <b>N 29 00 00, E 124 00 00.</b>	
--	---	--


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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<p><b>Tokyo SRR</b> <b>(Fukuoka FIR)</b></p>	<p>N 50 05 00, E 159 00 00; N 45 42 00, E 162 55 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; 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; following the national boundary between Hokkaido and Kunashiri Islands from N 44 N 30 00.0, E 145 40 00.0 to N 43 20 00, E 145 50 00; 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>	
--	--	---


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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<b>Ujung Pandang SRR</b> (Ujung Pandang FIR-SRR data not aligned)	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.	
--	--	--

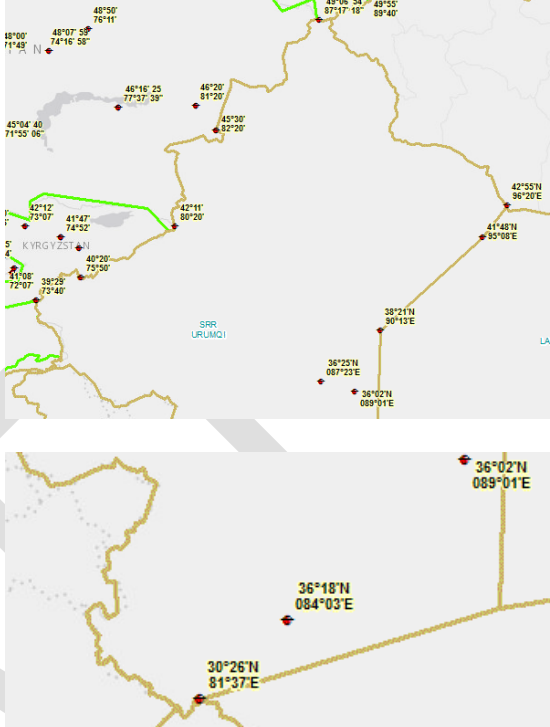
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER

<p><b>Ulan Bator</b>  <b>Ulaanbaatar</b>  <b>SRR</b>  <b>(Ulaanbaatar</b>  <b>FIR)</b></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>116° 42' 26\" E 49° 49' 47\" N  Latitude:49.829784 Longitude:116.707292</p>
--	---	--


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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<p><b>Urumqi SRR</b> (Urumqi FIR- SRR data 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>	
---	--	---

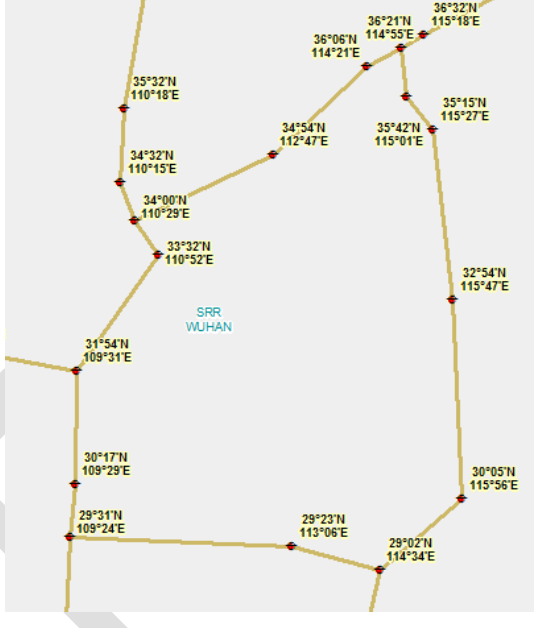
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

<p><b>Vientiane SRR</b> <b>(Vientiane FIR)</b></p>	<p>N 17 00 00, E 106 34 00; thence following the national boundary to N 17 00 00, E 106 34 00.</p>	
--	--	--


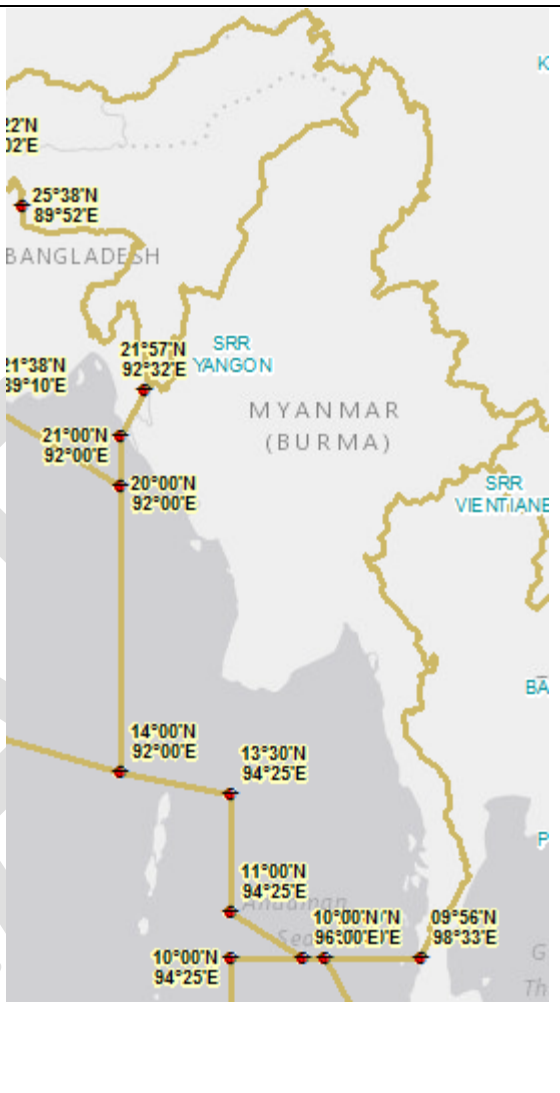
**TABLE SAR I-1 – AERONAUTICAL SEARCH AND RESCUE REGIONS (SRR) OF THE ASIA  
AND PACIFIC REGIONS**

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY  
APANPIRG/27 OR LATER**

<p><b>Wuhan SRR</b> (Wuhan FIR-SRR data not aligned)</p>	<p>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; <b>N 33 32 00, E 110 52 00.</b></p>	 <p>The map shows the Wuhan SRR boundary with the following vertices (from top to bottom, clockwise):</p> <ul style="list-style-type: none"> <li>36°32'N 115°18'E</li> <li>36°21'N 114°55'E</li> <li>36°06'N 114°21'E</li> <li>35°32'N 110°18'E</li> <li>34°54'N 112°47'E</li> <li>34°42'N 115°01'E</li> <li>35°15'N 115°27'E</li> <li>32°54'N 115°47'E</li> <li>30°05'N 115°56'E</li> <li>29°02'N 114°34'E</li> <li>29°23'N 113°06'E</li> <li>29°31'N 109°24'E</li> <li>30°17'N 109°29'E</li> <li>31°54'N 109°31'E</li> <li>33°32'N 110°52'E</li> </ul>
--	--	--

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

**NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER**

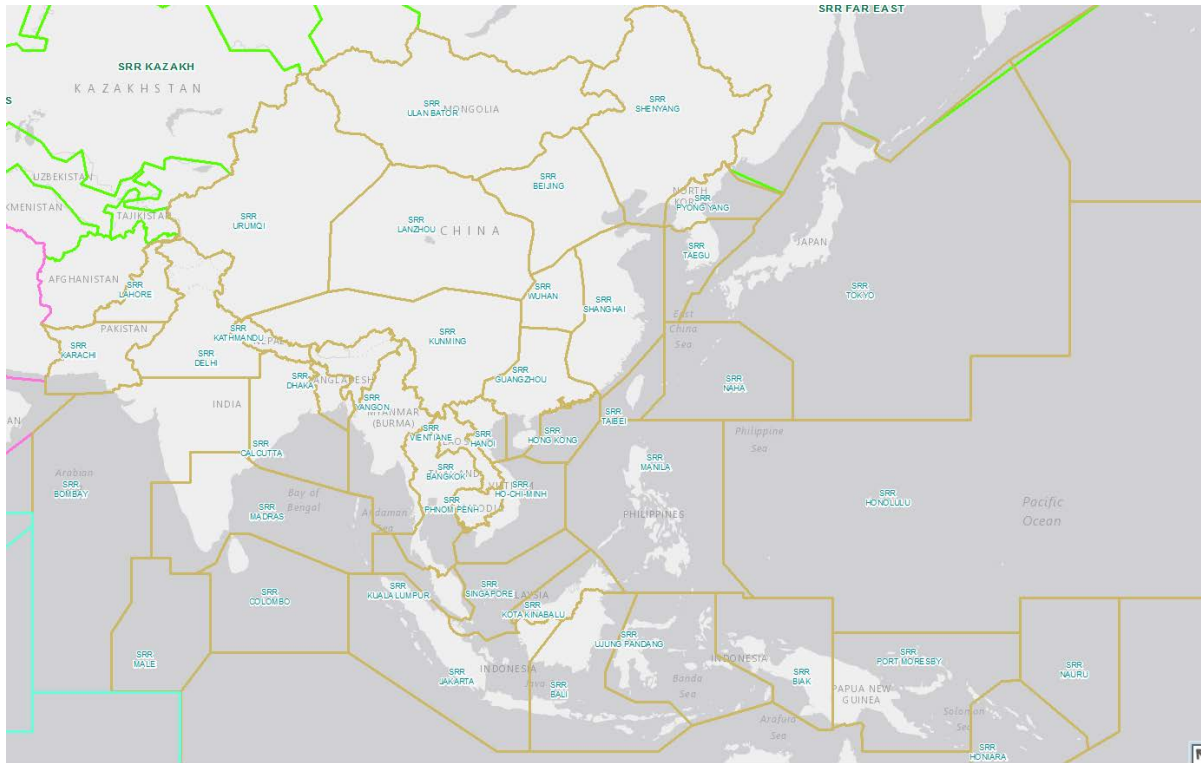
<p><b>Yangon SRR</b> Yangon FIR-SRR data not aligned</p>	<p>N 09 56 00, E 098 33 00; coordinate needs to be checked N 10 00 00, E 096 30 00; N 10 00 00, E 094 25 00; there are two different GIS descriptions – one does not have this coordinate – if this coordinate is not part of the description then the Chennai FIR needs to be fixed N 11 00 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.</p> 	
--	---	---



WP02 Attachment C

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

NOTE: THESE SRR DESCRIPTIONS WILL NOT BE APPROVED UNTIL VERIFICATION AND ENDORSEMENT BY APANPIRG/27 OR LATER



THIS IMAGE NOT TO BE USED FOR THE PURPOSES OF SRR DESCRIPTIONS AS IT IS INDICATIVE ONLY OF THE DATA THAT ICAO HAS BEFORE VERIFICATION

## Attachment D

Action		Responsible	Timeline	Status / Updates
1.	Organize ICAO Inter-regional AFI/APAC/MID SAR Workshop periodically on a rotational basis between the regions. ICAO ROs to include the workshop venue and dates in 2017 schedule of meetings	ICAO	Dec. 2016	
2.	Coordinate with ICAO HQ to provide more support to SAR through the provision of adequate resources to ensure effective follow-up and assistance regarding global SAR issues.	ICAO	Sep. 2016	
3.	Consider the reduction of the uncertainty phase timing commensurate with adequate communications and surveillance capabilities.	ICAO	TBD	
4.	Clearly define the division of responsibilities regarding command and control and hand over between the search and rescue function (Annex 12) and the air accident investigation search and recovery function (Annex 13).	ICAO	TBD	
5.	Development of AFI and MID Regional SAR Plans in a harmonized manner, taking into consideration the APAC SAR Plan and experience.	ICAO MID ICAO AFI	Mar. 2017 TBD	
6.	Establishment of national SAR committee that manages aeronautical, maritime, and civil/military cooperation aspects.	States ICAO	June 2017	
7.	Establishment of internal Quality Management System (QMS) for RCCs utilizing frameworks such IAMSAR, regional plan, USOAP-CMA protocol questions related to SAR.	States	Ongoing	
8.	Development of a Template for national SAR Plan	ICAO	Jan. 2017	
9.	Development of a comprehensive national SAR Plan addressing the ICAO and IMO requirements, involving the airspace operators and ensuring effective internal and cross borders cooperation, taking into consideration the regional SAR Plan.  Aerodrome and airline emergency response plans and disaster management plans should be synchronized with the SAR Plan.	States	June 2017	
10.	Raise awareness related to SAR through promotional material and the conduct of national, regional and inter-regional SAR workshops with the support of ICAO and IMO.	AFCAC (for AFI Region) ICAO IMO States	Ongoing	

## Attachment D

11.	Negotiate and sign SAR LoAs between adjacent States	States AFCAC (for AFI Region)	June 2017	
12.	States at the interface with the ICAO MID Region to follow-up with their ACCs the signature of the MID SAR Bilateral Arrangements with their relevant adjacent MID ACCs to ensure that alerting and coordination procedures are in place.	States adjacent to MID States	June 2017	
13.	Staff RCCs with sufficient number of adequately dedicated SAR personnel, and ACC with supervisory resource to ensure swift triggering of the alerting and coordination process.	States	Ongoing	
14.	Develop a short and long term plans for training of search and rescue personnel, including those involved in the oversight of SAR, derived from comprehensive training programmes, manual, etc. in order to ensure effective training and high level of competency.	ICAO IMO States	Ongoing	
15.	Enhance SAR experts' competency thorough the conduct of national, regional and inter-regional SAR courses with the support of ICAO and IMO as appropriate.	States ICAO AFCAC	Ongoing	
16.	RCCs and, as appropriate, RSCs, staffed 24 hours a day by trained and qualified operational personnel using radiotelephony communications who are proficient in the use of the English language.	States	Ongoing	
17.	Training to interact with the media should be provided to SAR Managers or any person involved with public communications.	States	Ongoing	
18.	Alternatives means of communication to promote, coordinate, SAR issues such as social media could be used. <i>Note. Social media should not be used as an initial alerting means in lieu of formal communication mechanism</i>	States	ongoing	
19.	Establishment of a Joint Rescue Coordinator Centre (JRCC) to coordinate aeronautical and maritime SAR operations	States	TBD	
20.	Sharing of resources (Human, assets, funding, etc.) through the establishment of regional and sub-regional SAR JRCC	ICAO States	Ongoing	
21.	Making available funds to ensure effective provision of SAR services, which should cover the running cost of the RCC and the SAR missions in case of incidents and accidents, SAREX and the provisions of services during large scale SAR responses, such as Mass Rescue Operations (MRO).	States Donors Stakeholders	Ongoing	
22.	Review the GADSS Concept and consider their preparedness for implementation.	States Airlines	Ongoing	
23.	Establishment of a legal framework to support the roles and responsibilities of SAR experts to handle various SAR missions.	States	Ongoing	
24.	Conduct national, regional, sub-regional and inter-regional SAREX. SAREX should be effective to test the SAR system in place.	States ICAO IMO	Ongoing	

**Attachment D**

25.	Signature of Memorandum of Arrangements (MoA) between SPOCs and their relevant MCCs	States	June 2017	
26.	RCCs should be notified well in advance regarding any activity that may lead to a SAR response (adventure, experimental, etc.) within their area of responsibility by their relevant authorities, for appropriate actions.	States	Ongoing	
27.	Consider the use of drones for SAR services.	States	Ongoing	
28.	Development of guidance on the use of drones for SAR.	ICAO IMO Stakeholders	Dec 2017	
29.	Take note of the emerging space-based ADS-B technology (trial from September 2016)	States	Ongoing	

--- END ---