



International Civil Aviation Organization

MIDANPIRG ATM Sub Group

First Meeting (ATM SG/1)
(Cairo, Egypt, 9 - 12 June 2014)

Agenda Item 7: Search and Rescue Issues

DEVELOPMENT OF THE MID eANP PARTS RELATED TO SAR

(Presented by the Secretariat)

SUMMARY
The aim of this paper is to initiate the development of the MID eANP part related to ATM. Action by the meeting is at paragraph 3.
REFERENCES
– ATM SG/1 WP/4 – MIDANPIRG/14 Report

1. INTRODUCTION

1.1 MIDANPIRG/14, through Decision 14/24, agreed that the development of the MID eANP based on the Council-approved ANP Template, be included in the work programme of the different MIDANPIRG subsidiary bodies and the relevant Parts of the MID eANP be presented, as soon as available, to MSG/4 and/or MIDANPIRG/15 for endorsement.

2. DISCUSSION

2.1 The meeting may wish to recall that the details related to the developments of the eANP were presented in WP/4.

2.2 In accordance with the action plan for the developments of the eANP and MIDANPIRG/14 Conclusion 14/24 the meeting is invited to review and provide inputs to the MID eANP Parts related to SAR. The following is a non-exhausted list of the topics that should be addressed and agreed upon in order to complete the SAR Parts of the MID eANP:

- Volume I: description of the current Search and Rescue Regions (SRRs) (Table SAR I-1);
- Volume II: list of Rescue Coordination Centres (RCCs) and Rescue Sub-centres (RSCs) in the Region(s) (Table SAR II-1); and
- Volume II: SAR point of Contact (SPOC) (Table SAR II-2).

2.3 The meeting may wish to note that the descriptions of the Search and Rescue Regions (SRRs) should be approved by the ICAO Council. The approved SRRs descriptions are depicted in the Chart SAR 1 of the MID ANP, Volume I (Basic). Nevertheless, the descriptions were not listed in any table.

2.4 Based on the above, the meeting is invited to agree that the descriptions (Lateral limits coordinates) of the SRRs be included in the **MID eANP Table SAR I-1** and the same description to be published in the States' AIPs pertaining to their SRRs. It is to be highlighted that the final version of the MID eANP will be circulated to States for comments and thereafter it will be submitted to the President of the ICAO Council for approval. The proposed Table above is included in the MID eANP Volume I, Part VI – SAR at **Appendix A**.

2.5 The meeting may wish to review and amend as deemed necessary the proposed MID eANP Volume II, Part VI – SAR, at **Appendix B** to this working paper, in particular **Table SAR II-1 Search and Rescue Coordination Centres and Rescue Sub-Centres in the MID Region** and **Table SAR II-2 MID Region SAR Point of Contact (SPOC) – COSPAS-SARSAT**.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review the MID eANP SAR parts and provide comments/inputs;
- b) initiate the process of population of the SAR I-1, SAR II-1 and SAR II-2 Tables related to the SRRs, RCCs/RSCs and SPOC descriptions, respectively; and
- c) agree on a date for the provision of necessary data to the ICAO MID Regional Office for the population of the different SAR Tables, for review by the ANP WG/2 meeting in December 2014.

APPENDIX A

MID ANP, VOLUME I

PART VI - SEARCH AND RESCUE (SAR)

1. INTRODUCTION

1.1 This part of the MID ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of search and rescue (SAR) facilities and services in the MID Region and complements the provisions of ICAO Standards, Recommended Practices and Procedures (SARPs) related to SAR. It contains stable plan elements related to the assignment of responsibilities to States for the provision of SAR facilities and services within the ICAO MID Region in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300) and mandatory requirements related to the SAR facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan elements related to the assignment of States' responsibilities for the provision of SAR facilities and services and the mandatory requirements based on regional air navigation agreements related to SAR are contained in the MID Volume II, Part VI – SAR.

Standards, Recommended Practices and Procedures

1.3 The Standards, Recommended Practices and Procedures (SARPs) and related guidance material applicable to the provision of SAR are contained in:

- a) Annex 12 – *Search and Rescue*;
- b) Annex 6 — *Operation of Aircraft*;
- c) *Procedures for Air Navigation Services — Air Traffic Management* (PANS-ATM) (Doc 4444);
- d) *Regional Supplementary Procedures* (Doc 7030); and
- e) *International Aeronautical and Maritime Search and Rescue Manual* (Doc 9731-AN/958).

2. GENERAL REGIONAL REQUIREMENTS

2.1 Each Contracting State should ensure that the provision of search and rescue services covers its own territory and those areas over the high seas for which it is responsible for the provision of those services. The description of the current Search and Rescue Regions (SRRs), as approved by the ICAO Council, are contained in **Table SAR I-1** and depicted in the **Chart SAR I-1**. The list of Rescue Coordination Centres (RCCs) and Rescue Sub-centres (RSCs) in the Region(s) are detailed in Volume II.

2.2 The three volumes of the *IAMSAR Manual* (Doc 9731) provide guidance for a common aviation and maritime approach to organizing and providing SAR services. States are invited to use the *IAMSAR Manual* to ensure the availability of effective aeronautical SAR services and to cooperate with neighbouring States.

2.3 States which rely on military authorities and/or other sources for the provision of SAR facilities should ensure that adequate arrangements are in place for coordination of SAR activities between all entities involved.

2.4 Arrangements should be made to permit a call on any national services likely to be able to render assistance on an ad-hoc basis, in those cases when the scope of SAR operations requires such assistance.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 **TBD (if necessary).**

TABLE SAR I-1 – SEARCH AND RESCUE REGIONS (SRR) OF THE MID REGION

EXPLANATION OF THE TABLE

Column:

- 1 Name of the SRR.
- 2 Description of SRR lateral limits.
- 3 Additional information, if necessary.

SRR	Lateral limits coordinates	Remarks
1	2	3
Amman	292125N 0345743E On the Gulf of Aqaba 291102N 360420E 293002N 0363021E 295203N 0364521E 300003N 0373021E 302003N 0374021E 303003N 0380021E 313003N 0370021E 320002N 0390021E TO 320911N 0391206E At Jordan, Saudi Arabia and Iraqi boundaries. Then the point 321349N 0391804E At the Southern corner of the Jordanian-Iraqi boundaries	
Baghdad		
Bahrain		
Beirut		
Cairo	Northern border 34 00 00N 024 10 00E – 34 00 00N 027 10 00E – 33 30 00N 030 00 00E *Eastern border 31 50 00N 033 59 00E – 31 36 00N 034 30 00E then follow the International border to: 29 30 00N 034 55 00E – 29 30 00N 035 00 00E 28 06 00N 034 35 00E to 22 00 00N 038 00 00E *Southern border 22 00 00N 038 00 00E – 22 00 00N 025 00 00E *Western border 22 00 00N 025 00 00E – 31 40 00N 025 10 00E 34 00 00N 024 10 00E	

SRR	Lateral limits coordinates	Remarks
1	2	3
Damascus		
Emirates		
Jeddah		
Khartoum		
Kuwait		
Muscat		
Sanaa'		
Tehran		
Tripoli		

APPENDIX B

MID ANP, VOLUME II

PART VI - SEARCH AND RESCUE (SAR)

1. INTRODUCTION

1.1 This part of the MID ANP, Volume II, complements the provisions in Standards, Recommended Practices and Procedures (SARPs) related to search and rescue (SAR). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of SAR facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the SAR facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 The Rescue Coordination Centres (RCCs) and Rescue Sub-Centres (RSCs) for the MID Region are listed in **Table SAR II-1** and depicted in **Chart SAR II-1**.

2.2 In cases where the minimum SAR facilities are temporarily unavailable, alternative suitable means should be made available.

2.3 In cases where a SAR alert is proximate to a Search and Rescue Region (SRR) boundary (e.g. 50 NM or less), or it is unclear if the alert corresponds to a position entirely contained within an SRR, the adjacent RCC or RSC should be notified of the alert immediately.

2.4 The contact details for the SAR Point of Contact (SPOC) – COSPAS-SARSAT in the MID Region is at **Table SAR II-2**.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1. *The details of the facilities and/or services to be provided to fulfill the basic requirements of the plan could be found in this part. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified. [if required]*

TABLE SAR II-1 - SEARCH AND RESCUE COORDINATION CENTRES AND RESCUE SUB CENTRES IN THE MID REGION

EXPLANATION OF THE TABLE

Column

- 1 State
- 2 Name of the Rescue Coordination Centre (RCC) and Rescue Sub-centre (RSC).
- 3 Minimum requirements for land rescue units (LRU) including mountain rescue units (MRU) and desert rescue units (DRU).
 - *Extra Long Range (ELR)*: Those aircraft with a radius of action of 2 780 km (1 500 NM) or more, plus 21/2 hours search remaining.
 - *Very Long Range (VLR)*: Those aircraft with a radius of action of more than 1 850 km (1 000 NM) plus 21/2 hours search remaining.
 - *Long Range (LRG)*: Those aircraft with a radius of action of 1 390 km (750 NM) plus 21/2 hours search remaining.
 - *Medium Range (MRG)*: Those aircraft with a radius of action of 740 km (400 NM) plus 21/2 hours search remaining.
 - *Short Range (SRG)*: Those aircraft with a radius of action of 280 km (150 NM) plus 1/2 hour search remaining.
 - *Helicopter (HEL-L)*: A helicopter suitable for rescue purposes with, in normal circumstances, a radius of action for rescue purposes of up to 185 km (100 NM) and a capacity for evacuating 1 to 5 persons.
 - *Helicopter (HEL-M)*: A helicopter suitable for rescue purposes with, in normal circumstances, a radius of action for rescue purposes of 185 to 370 km (100 to 200 NM) and a capacity for evacuating 6 to 15 persons.
 - *Helicopter (HEL-H)*: A helicopter suitable for search and rescue purposes with, in normal circumstances, a radius of action for rescue purposes of more than 370 km (200 NM) and a capacity for evacuating more than 15 persons.
 - *Rescue Boat (RB)*: Short-range coastal and river craft with a speed approaching 14 knots or better.
 - *Rescue Vessel (RV)*: Vessel possessing sea-going qualities, long range and reasonable speed. Patrol, customs, pilotage and other craft fulfil the purpose if assigned a high priority for search and rescue operations.
- 4 Remarks. Supplementary information such as the type of RCC (e.g. maritime or aviation or joint).

Notes:

1 Coverage by aircraft with shorter range than recommended at LRG range.

2 The Sri Lanka Government can only provide SAR facilities within a 370 km (200 NM) radius of its principal airports.

3 Rescue team

RCC and Rescue Units		Required rescue facilities		Remarks
1	2	3		4
BAHRAIN				
BAHRAIN RCC				
	Bahrain	HEL-L	RB	
			RV	
	Doha RSC	HEL-M	RB	
			RV	
EGYPT				
CAIRO RCC				
	Cairo	VLR	MRU	
		LRG	DRU	
		MRG	LRU	
		SRG		
		HEL-L	PRU	
		HEL-M		
		HEL-H		
	Alexandria	HEL-M	RB	
			RV	
	Luxor	HEL-M	DRU	
	Hurghada	HEL-M	RB	
			RV	
	M. Matruh	HEL-M	RB	
			RV	
	EL-Minya	DRU		
	El Tor	DRU		
	Habata	DRU		
	New Valley	DRU		
	Ras-Banas	RB	DRU	
			RV	
	Siwa		DRU	
IRAN				
TEHRAN RCC				
	Tehran	LRG	MRU	
		HEL-M	LRU	
	Bandar Abbass	HEL-M	RB	
	Busherhr	HEL-M	RB	
	Esfahan	HEL-M	MRU	
			DRU	
	Kerman	HEL-M	MRU	
			DRU	
	Kermanshah	HEL-M	MRU	
	Mashhad	HEL-M	MRU	
			DRU	
	Tabriz	HEL-M	MRU	
	Zahedan	HEL-M	MRU	
			DRU	
IRAQ				
BAGHDAD RCC				
	Baghdad	MRG		

RCC and Rescue Units		Required rescue facilities		Remarks
1	2	3		4
		HEL-M		
	Kirkuk	HEL-M		
	Shaibah	HEL-M		
	Basrah		RB	
			RV	
JORDAN				
AMMAN RCC				
	Amman	MRG	RB	
		HEL-M		
KUWAIT				
KUWAIT RCC				
	Kuwait	LRG	RB	
		HEL-M	RV	
LEBANON				
BEIRUT RCC				
	Beirut	SRG	RV	
		HEL-M	RB	
	Tripoli		RB	
LIBYA				
TRIPOLI RCC				
	Tripoli	HEL-H	DRU	
		VLR	RV	
	Marsa Brega		RV	
	Sirte		RV	
	Tobruk		RV	
OMAN				
MUSCAT RCC				
	Muscat	MRG, RV	DRU	
		ELR	MRU	
			LRU	
	Salalah	MRG, RB	DRU	
		RV		
SAUDI ARABIA				
JEDDAH RCC				
	Jeddah	LRG	RB	
		HEL-M		
	Dammam	HEL-M	RB	
		HEL-M	LRU	
SUDAN				
KHARTOUM RCC				
	Khartoum	HEL-M	DRU	
		MRG		
	El Obeid	MRG		
	Juba	MRG		
	Port Sudan	MRG		
SYRIA				
DAMASCUS RCC				
	Damascus	MRG	MRU	
		HEL-M		

RCC and Rescue Units		Required rescue facilities		Remarks
1	2	3		4
	Latakia		RB	
UAE				
ABU DHABI RCC				
	Abu Dhabi	SRG	RB	
	Dubai	HEL-H	RB	
	Fujairah		RB	
YEMEN				
SANA'A RCC				
	Sana'a	MRG	DRU	
		HEL-M		
	Aden	MRG	RV	
		HEL-H		
	Hodeidah	MRG	RV	
		HEL-M		
	Riyan	MRG	RV	
		HEL-H		

TABLE SAR II-2 MID REGION SAR POINT OF CONTACT (SPOC) – COSPAS-SARSAT

STATE	SPOC NAME	ADDRESS	EMAIL	TEL	FAX	AFTN	ASS. MCC/ STATE ¹	LAST REVISION	REMARK
Bahrain	RCC ATC Bahrain	Bahrain CAA, Air Navigation Directorate P.O. Box 586 Kingdom of Bahrain	Bahatc@caa.gov.bh	(973) 17321081 17321080	(973) 17321905	OBBISARX	SAMCC Saudi Arabia	16-April-2013	
Egypt	SAR Centre	SAR Centre Almaza Air Base Heliopolis, Cairo, Egypt	jrccl36@afmic.gov.eg mmc@saregypt.net nahedh@tra.gov.eg	(202) 24184537 24184531	(202) 24184537 24184531	HECCYCYX	ALMCC Algeria	22-OCT-2013	TELEX: (91) 21095 RCCC RUN
Iran	RCC Tehran	Civil Aviation Organization SAR Coordination Centre Mehrabad Airport Tehran, Iran	SAR@cao.ir IRAN-SAR@airport.ir rcc.IRAN@airport.ir	(9821) 44544107 44544116 44544060	(9821) 44544117 44544106	OIIZRZX	TRMCC Turkey	14-Jan-2013	
Iraq	CENTAF-AUAB CAOC JSRC			(974) 4503452 4364193	(974) 4327382		TRMCC Turkey	29-Sep-2009	
Jordan	RCC ATC Amman	RCC Civil Aviation Authority Amman Airport, Jordan		(9626) 4451672	(9626) 4451667	OJACZQZX	SAMCC Saudi Arabia	16-Apr-2013	
Kuwait	RCC ATC Kuwait	RCC DGCA Kuwait International Airport, P.O.Box 17, Kuwait		(965) 24760463 24762994	(965) 24346515 24346221	OKBKZQZX OKBKNSAR	SAMCC Saudi Arabia	16-Apr-2013	
Lebanon	RCC Beirut	RCC, DGCA Lebanon, Hariri Int'l Airport- Beirut, Lebanon		(961) 1628161	(961) 1628186 1629035	OLBIZQZX	SAMCC Saudi Arabia	16-Apr-2013	

¹ Associated COSPAS-SARSAT Mission Control Center / State where it is located

STATE	SPOC NAME	ADDRESS	EMAIL	TEL	FAX	AFTN	ASS. MCC/ STATE ¹	LAST REVISION	REMARK
Libya	CAA	CAA, Tripoli Int'l Airport, Libya	info@sar.caa.ly	(218.21) 5632332 4446799 3606868	(218.21) 563 0257 360 6868	HLLTYCYX	ALMCC Algeria	16-May-2013	TELEX (218.21) 5632332
Oman	RCC Muscat Air Force	RCC, HQ RAFO P.O.Box 730 Central Post Office Muscat Int'l Airport, Oman		(968) 24519209 24519332	(968) 24334776 24338692	OOMSYAYX	SAMCC Saudi Arabia	16-Apr-2013	
Qatar	RCC ATC			(974) 44616332 44651001 44616429	(974) 44622078 44678512	OTBDZTZX	SAMCC Saudi Arabia	16-Apr-2013	
Saudi Arabia	SAMCC	KSA.GACA / Air Navigation services P.O.Box 929 Jeddah 21421 Saudi Arabia	samcc@gaca.gov.sa	(96602) 6150170 6855812 (96650) 4601445	(96602) 6150171 6402855	OEJNJSAR	SAMCC Saudi Arabia	28-Jun-2013	TEL 3 & FAX 2 for Head of SAMCC
Sudan	ACC Khartoum	Khartoum Airport, Sudan		(249.183) 788192 784925	(249.183) 528323	HSSSYCYX	ITMCC Italy	16-Apr-2013	Thuraya +8821655524 296
Syria	RCC ATC	General Civil Aviation Authority		(963.11) 5400540	(963.11) 5400312	OSDIZQZX	SAMCC Saudi Arabia	16-Apr-2013	
UAE	AEMCC	SAR Coordination Center P.O.Box 906 GHQ Armed Forces UAE	aemcc@uae-jrcc.ae	(971.2) 4056144 4496866	(971.2) 4496844	OMADYCYX	AEMCC UAE	23-Sep-2011	
Yemen	RCC Sanaa	RCC Department of Civil Aviation Sanaa, Yemen		(967) 1344673	(967) 1345916	OYSNYCYX	SAMCC Saudi Arabia	16-April-2013	

-END-