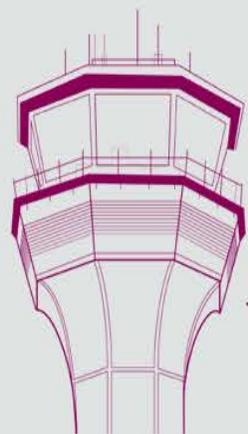




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## Search and Rescue Workshop

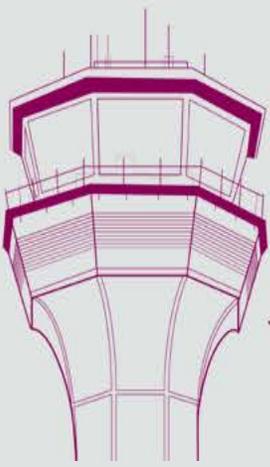
Cairo, 6 – 7 May 2024



**PPT1: Presentation on ICAO provisions related to SAR**

Presented by:

Ahmad Amireh, Regional Officer ATM/SAR, ICAO MID Office



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# Search and Rescue Workshop

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## DAILY ORDER OF BUSINESS AND WORK PROGRAMME

Registration, welcoming and opening remarks

**Agenda Item 1: Adoption of the Agenda and Work programme**

**Agenda Item 2: ICAO provisions related to SAR**

**Agenda Item 3: SAR Implementation status within the MID Region**

**Agenda Item 4: Sharing MID States' experience related to SAR**

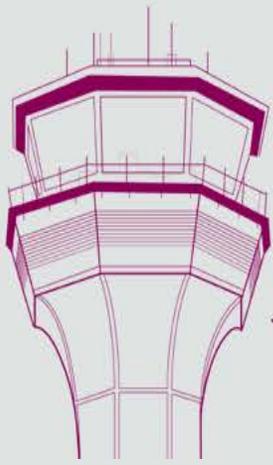
**Agenda Item 5: Global Aeronautical Distress & Safety System (GADSS)**

**Agenda Item 6: USOAP CMA PQs related to SAR implementation**

**Agenda Item 7: Any other Business**



National SAR Center, UAE



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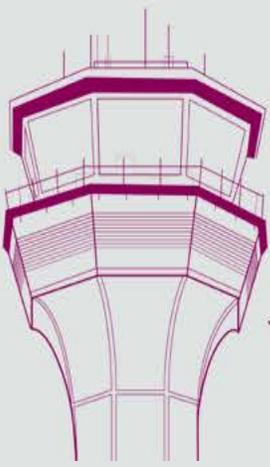


## DAILY ORDER OF BUSINESS AND WORK PROGRAMME



Order of Business





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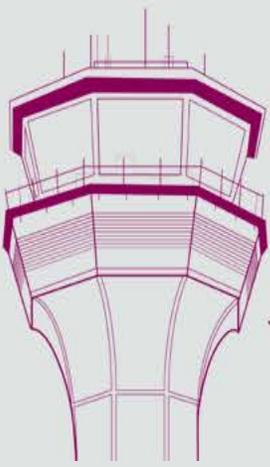
# Search and Rescue Workshop

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## Presentation on ICAO provisions related to SAR

- Definitions
- The need for Search and Rescue
- Relevant ICAO Documents and references
- Relevant Agencies involved in SAR
- Communication, Coordination, Collaboration, Coopetition
- SAR Structures and Processes for Cooperation
- Recommendations



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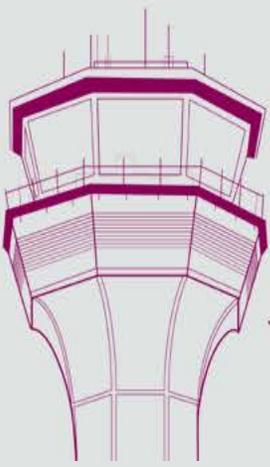
## Definitions

***Alerting service.*** A service provided to notify appropriate organizations regarding aircraft in need of search and rescue aid, and assist such organizations as required.

***Flight information centre.*** A unit established to provide flight information service and alerting service.

***Search.*** An operation normally coordinated by a rescue coordination centre or rescue subcentre using available personnel and facilities to locate persons in distress.

***Search and rescue service.*** The performance of distress monitoring, communication, coordination and search and rescue functions, initial medical assistance or medical evacuation, through the use of public and private resources, including cooperating aircraft, vessels and other craft and installations.



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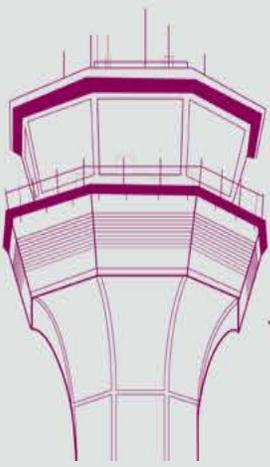
## Definitions

***Search and rescue region (SRR).*** An area of defined dimensions, associated with a rescue coordination centre, within which search and rescue services are provided.

***Search and rescue unit.*** A mobile resource composed of trained personnel and provided with equipment suitable for the expeditious conduct of search and rescue operations.

***Rescue coordination centre (RCC).*** A unit responsible for promoting efficient organization of search and rescue services and for coordinating the conduct of search and rescue operations within a search and rescue region.

***Rescue subcentre (RSC).*** A unit subordinate to a rescue coordination centre, established to complement the latter according to particular provisions of the responsible authorities.



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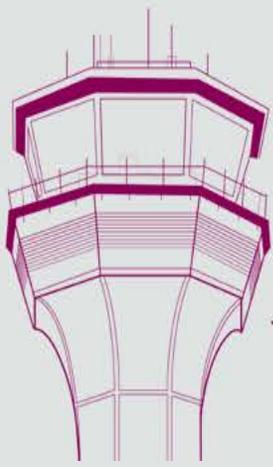
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## Presentation on ICAO provisions related to SAR

- Humanitarian Service
- Moral Obligation and Responsibility
- Non-political Service
- Sustainability of industry
- Non-Commercial



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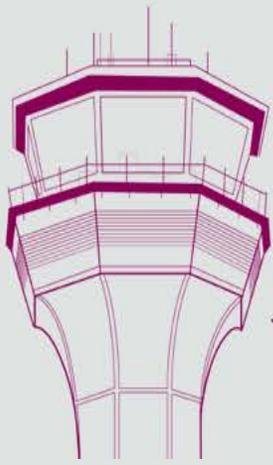
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## Relevant ICAO Documents and references

### *Article 25 Aircraft in distress*

Each contracting State undertakes to provide such measures of assistance to aircraft in distress in its territory as it may find practicable, and to permit, subject to control by its own authorities, the owners of the aircraft or authorities of the State in which the aircraft is registered to provide such measures of assistance as may be necessitated by the circumstances. Each contracting State, when undertaking search for missing aircraft, will collaborate in coordinated measures which may be recommended from time to time pursuant to this Convention.



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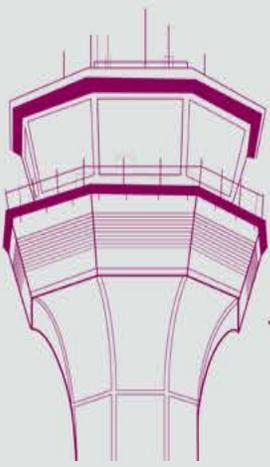
## Relevant ICAO Documents and references

### *Annex 11: Air Traffic Services*

#### **Chapter 2: 2.2 Objectives of the air traffic services**

The objectives of the air traffic services shall be to:

- a) prevent collisions between aircraft;
- b) prevent collisions between aircraft on the manoeuvring area and obstructions on that area;
- c) expedite and maintain an orderly flow of air traffic;
- d) provide advice and information useful for the safe and efficient conduct of flights;
- e) notify appropriate organizations regarding aircraft in need of search and rescue aid, and assist such organizations as required.**



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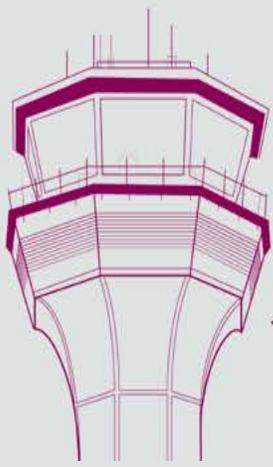


## Relevant ICAO Documents and references

### *Annex 11: Air Traffic Services*

#### CHAPTER 5. ALERTING SERVICE

5.1.2 Flight information centres or area control centres shall serve as the central point for collecting all information relevant to a state of emergency of an aircraft operating within the flight information region or control area concerned and for forwarding such information to the appropriate rescue coordination centre.



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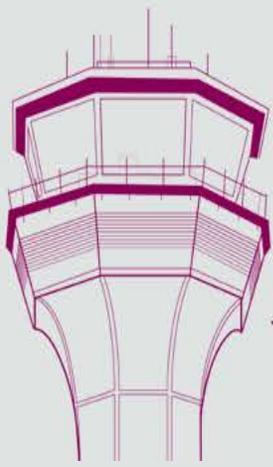
## Relevant ICAO Documents and references

### *Annex 11: Air Traffic Services*

#### CHAPTER 5. ALERTING SERVICE

5.1.3 In the event of a state of emergency arising to an aircraft while it is under the control of an aerodrome control tower or approach control unit, such unit shall notify immediately the flight information centre or area control centre responsible which shall in turn notify the rescue coordination centre, except that notification of the area control centre, flight information centre, or rescue coordination centre shall not be required when the nature of the emergency is such that the notification would be superfluous.

5.1.3.1 Nevertheless, whenever the urgency of the situation so requires, the aerodrome control tower or approach control unit responsible shall first alert and take other necessary steps to set in motion all appropriate local rescue and emergency organizations which can give the immediate assistance required.



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## Relevant ICAO Documents and references

### *Annex 11: Air Traffic Services*

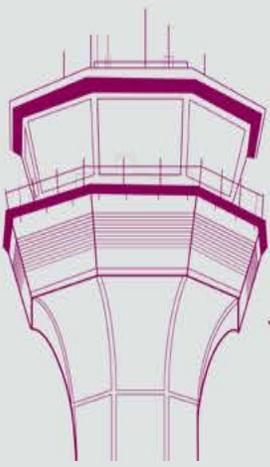
#### CHAPTER 5. ALERTING SERVICE

#### **5.5 Information to the operator**

5.5.1 When an area control or a flight information centre decides that an aircraft is in the uncertainty or the alert phase, it shall, when practicable, advise the operator prior to notifying the rescue coordination centre.

*Note.— If an aircraft is in the distress phase, the rescue coordination centre has to be notified immediately in accordance with 5.2.1.*

5.5.2 All information notified to the rescue coordination centre by an area control or flight information centre shall, whenever practicable, also be communicated, without delay, to the operator.



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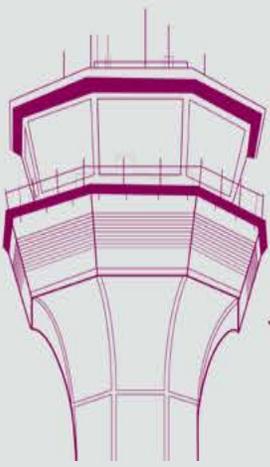
## Relevant ICAO Documents and references

### *Annex 11: Air Traffic Services*

#### CHAPTER 6. AIR TRAFFIC SERVICES REQUIREMENTS FOR COMMUNICATIONS

6.2.2.2.1 A flight information centre and an area control centre shall have facilities for communications with the following units providing a service within their respective area of responsibility:

- a) appropriate military units;
- b) the meteorological office serving the centre;
- c) the aeronautical telecommunications station serving the centre;
- d) appropriate operator's offices;**
- e) the rescue coordination centre or, in the absence of such centre, any other appropriate emergency service;**
- f) the international NOTAM office serving the centre.



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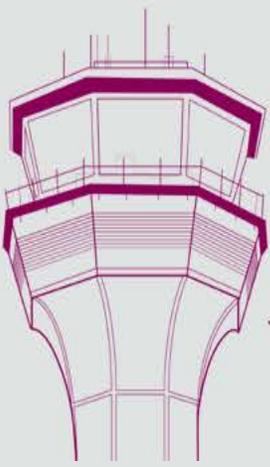
## Relevant ICAO Documents and references

### *Annex 11: Air Traffic Services*

#### CHAPTER 6. AIR TRAFFIC SERVICES REQUIREMENTS FOR COMMUNICATIONS

6.4.1.1 Surveillance data from primary and secondary radar equipment or other systems (e.g. ADS-B, ADS-C), used as an aid to air traffic services, shall be automatically recorded for use in accident and incident investigations, search and rescue, air traffic control and surveillance systems evaluation and training.

6.4.1.2 Automatic recordings shall be retained for a period of at least thirty days. When the recordings are pertinent to accident and incident investigations, they shall be retained for longer periods until it is evident that they will no longer be required.



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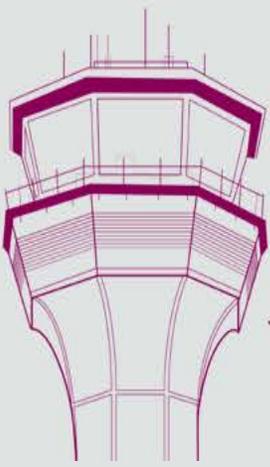


## Relevant ICAO Documents and references

### *Annex 12: Search and Rescue*

Annex 12 is applicable to the establishment, maintenance and operation of search and rescue services in the territories of Contracting States and over the high seas, and to the coordination of such services between States.

2.1.1 Contracting States shall, individually or in cooperation with other States, arrange for the establishment and prompt provision of search and rescue services within their territories to ensure that assistance is rendered to persons in distress. Such services shall be provided on a 24-hour basis.



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## Relevant ICAO Documents and references

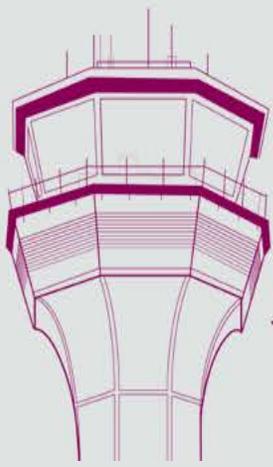
### *Annex 12: Search and Rescue*

#### **3.1 Cooperation between States**

3.1.1 Contracting States shall coordinate their search and rescue organizations with those of neighbouring States.

3.1.2 **Recommendation.**— *Contracting States should, whenever necessary, coordinate their search and rescue operations with those of neighbouring States especially when these operations are proximate to adjacent search and rescue regions.*

3.1.2.1 **Recommendation.**— *Contracting States should, in so far as practicable, develop common search and rescue plans and procedures to facilitate coordination of search and rescue operations with those of neighbouring States.*



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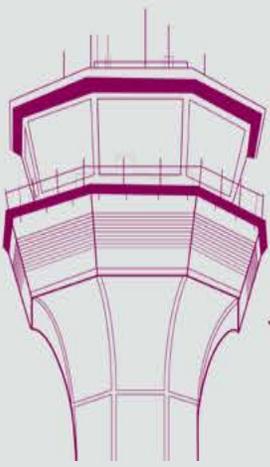


## Relevant ICAO Documents and references

### *Annex 12: Search and Rescue*

3.1.3 Subject to such conditions as may be prescribed by its own authorities, a Contracting State shall permit immediate entry into its territory of search and rescue units of other States for the purpose of searching for the site of aircraft accidents and rescuing survivors of such accidents.

3.1.4 The authorities of a Contracting State who wish their search and rescue units to enter the territory of another Contracting State for search and rescue purposes shall transmit a request, giving full details of the projected mission and the need for it, to the rescue coordination centre of the State concerned or to such other authority as has been designated by that State.



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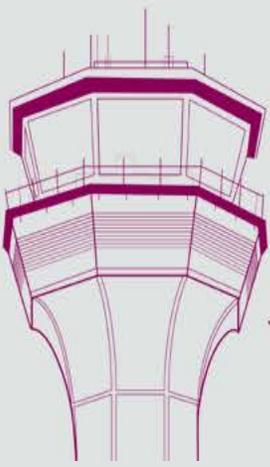
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## Relevant ICAO Documents and references

### *Annex 12: Search and Rescue*

**3.1.5 Recommendation.**— *Contracting States should enter into agreements with neighbouring States to strengthen search and rescue cooperation and coordination, setting forth the conditions for entry of each other's search and rescue units into their respective territories. These agreements should also provide for expediting entry of such units with the least possible formalities.*



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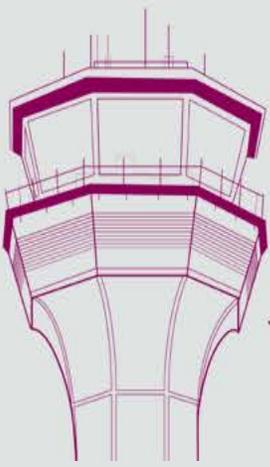


## Relevant ICAO Documents and references

### *Annex 12: Search and Rescue*

**3.1.6 Recommendation.**— *Each Contracting State should authorize its rescue coordination centres to:*

- a) request from other rescue coordination centres such assistance, including aircraft, vessels, persons or equipment, as may be needed;*
- b) grant any necessary permission for the entry of such aircraft, vessels, persons or equipment into its territory;*  
*and*
- c) make the necessary arrangements with the appropriate customs, immigration or other authorities with a view to expediting such entry.*



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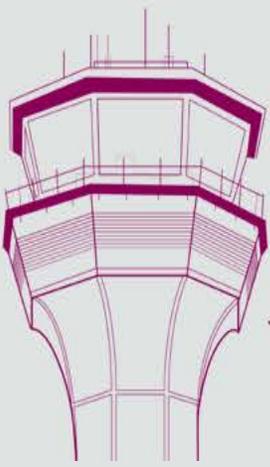
## Relevant ICAO Documents and references

### *Annex 12: Search and Rescue*

**3.1.7 Recommendation.**— *Each Contracting State should authorize its rescue coordination centres to provide, when requested, assistance to other rescue coordination centres, including assistance in the form of aircraft, vessels, persons or equipment.*

**3.1.8 Recommendation.**— *Contracting States should make arrangements for joint training exercises involving their search and rescue units, those of other States and operators, in order to promote search and rescue efficiency.*

**3.1.9 Recommendation.**— *Contracting States should make arrangements for periodic liaison visits by personnel of their rescue coordination centres and subcentres to the centres of neighbouring States.*



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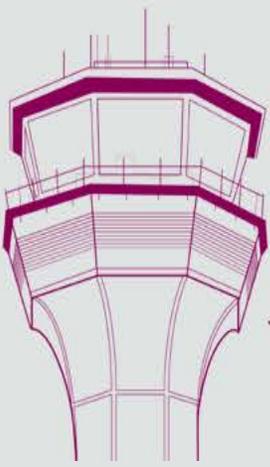
## Relevant ICAO Documents and references

### *Annex 12: Search and Rescue*

#### **3.2 Cooperation with other services**

3.2.1 Contracting States shall arrange for all aircraft, vessels and local services and facilities which do not form part of the search and rescue organization to cooperate fully with the latter in search and rescue and to extend any possible assistance to the survivors of aircraft accidents.

3.2.2 **Recommendation.**— *Contracting States should ensure the closest practicable coordination between the relevant aeronautical and maritime authorities to provide for the most effective and efficient search and rescue services.*



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## Relevant ICAO Documents and references

### *Annex 12: Search and Rescue*

#### **3.2 Cooperation with other services**

3.2.3 Contracting States shall ensure that their search and rescue services cooperate with those responsible for investigating accidents and with those responsible for the care of those who suffered from the accident.

## SAR Stakeholders (NJSC)

Director General of Civil Aviation Authority

Chief of General Staff or Representative

Managing Director of the State Ports Authority

Ministries of: Transport, Health, Foreign Affairs

Provincial Administration & Internal Security

Director National Disaster/ Emergency Operation Centre

Air Force and navy Commander or Representative

Attorney General/Ministry of Justice

Ministry responsible for State Defense

Director General of the State Maritime Authority

Commissioner General of the State Revenue Authority

Representative responsible for Special National Programs

Ministry responsible for Local Government

Commissioner of Police or Representative

International Organizations

Private Agencies