### SAR CASE HISTORIES LESSONS TO BE LEARNT AF 447



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## **FOREWORD**

This presentation is partially based on the Interim Report of the BEA (French Civil aviation accident Investigation and analyses Bureau).

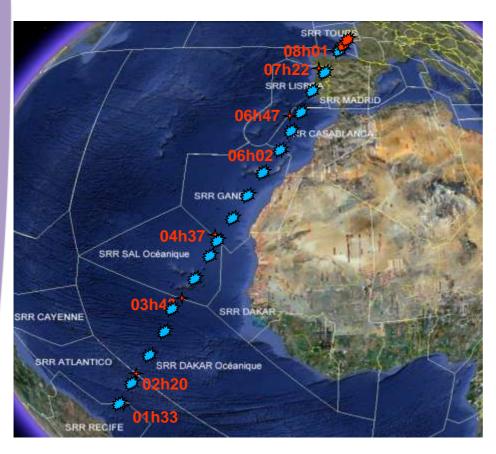
The sole objective of this presentation is to draw lessons from this accident, introduce discussions and find solutions which may help to prevent future dysfunction of the system.







## Alert services



- 01h35mn Last radio contact between Brazilian ATC and AF 447
- 02h10mn Last automatic transmission of position AF 447
- From 02h48 to 08h07
  Discussions of any kind between all ATCs along the route of AF447 to find out where it can be.
- 08h15 First alert message ALERFA
- 08h34 DETRESFA message







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## Alert services

#### **Facts**

- No RCC has been contacted during about 5 hours and 30 minutes of "reasonable doubt" concerning AF 447
- No ELT transmission detected by COSPAS/SARSAT

### Shortcomings and deficiencies

- Much too long delay to declare SAR phases
- Apparent unwillingness of ATC units to accept responsibility for declaration of emergency

### Questions with respect to:

- Sufficiency of operational procedures
- Importance of ATC/SAR coordination
- Effectiveness of ELTs in water contact accidents







## **Coordination 1/2**

#### **Facts**

- At a certain point (around 09h40) the case is no longer in the hands of RCCs;
- Operational Headquarters are taking the lead on the SAR operation;

### Shortcomings and deficiencies

- Lack of recognition of the existence, authority and responsibility of State SAR systems;
- Cooperation in allocation of foreign SRU effected through Diplomatic channels rather than between RCCs

### Questions with respect to:

- Suitability of military coordination of civil SAR services
- Importance of SAR Agreements with neighboring countries.







## **Coordination 2/2**

#### **Facts**

- difficulties to coordinate between RCCs due to language barrier
- Hard time to find a list of phone numbers for ARCCs worldwide

### Shortcomings and deficiencies

- Miscommunication through lack of common language proficiency
- Lack of points of contact with neighboring RCCs

### Questions with respect to:

- Need of mandated language proficiency requirements
- Availability of a database with all ARCCs POC
- Joint aviation / maritime RCCs







## Recommendations

- ICAO should reinforce to States the critical importance of effective SAR Alerting procedures and their obligations in this respect in accordance with Annex 11 and Doc 4444.
- ICAO should review certain aspects of the provisions regarding carriage and method of activation of ELTs in the light of reported failures to provide Alerts to the SAR system
- ICAO should reemphasize to States the importance of recognition of the existence, authority and responsibility of their SAR systems
- ICAO should consider mandating a minimum standard of English language proficiency for RCCs at level 2 on the ICAO language proficiency rating scale

































