



**Combined Fourth Meeting of Arabian Sea Indian Ocean ATS Coordination Group  
ASIOACG/8 and Indian Ocean Strategic Partnership to Reduce Emissions (INSPIRE/4) –**

**Melbourne, Australia 25<sup>th</sup> November – 29<sup>th</sup> November 2013**

**Agenda Item3: Arabian Sea Efficiency improvements**

**Improve of surveillance and access to/from Arabian sea**

(Presented by Emirates -Qantas)

**SUMMARY**

Improvement proposal of Severance and access to/from Arabian sea for fuel efficiency.

**1. INTRODUCTION**

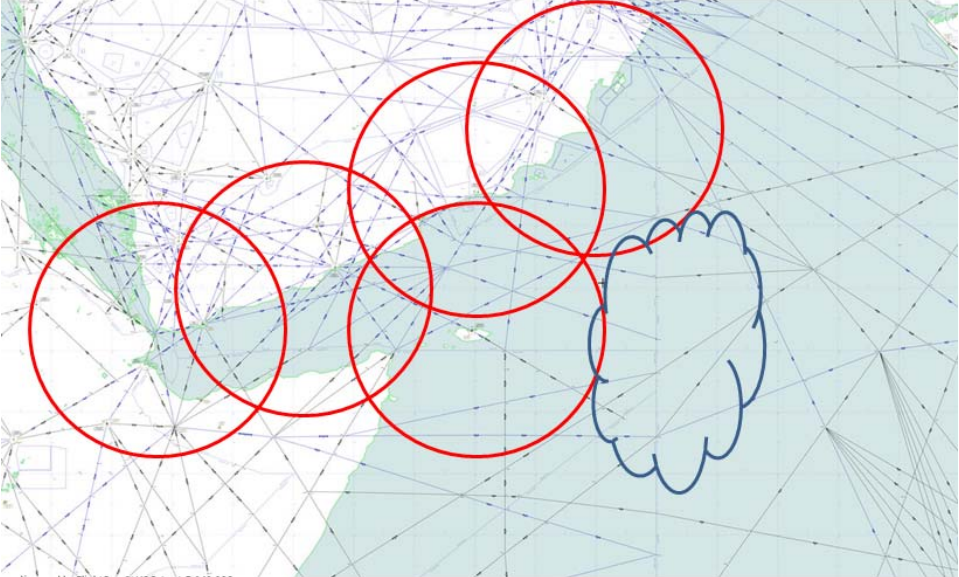
- 1.1 Limited surveillance capability and communication problem in Arabian sea make the difficulties of separation between the traffic crossing.
- 1.2 This situation requires the FLAS, and the FLAS limits the cruise altitude optimization.
- 1.3 This situation also prohibits the UPR zone extension to Muscat- Mumbai Boundary line due to the crossing traffic from Africa.
- 1.3 All gulf traffic to/from India, South East Asia and Australia fly through the Muscat airspace, but high density traffic condition in peak hours.
- 1.4 Peak hours traffic condition require the slot system for entering Muscat airspace, and this slot system make the departure delay situation in peak hours.

**2. DISCUSSION**

- 2.1 Improvement of severance for the traffic from Africa will support the separation management based on Lateral, not vertical. Add the severance capability at Socotra Island with ADS-B and share the information including Radar data in Muscat FIR between the states.

Mumbai will have the information of traffic accessing to Mumbai oceanic from Africa.

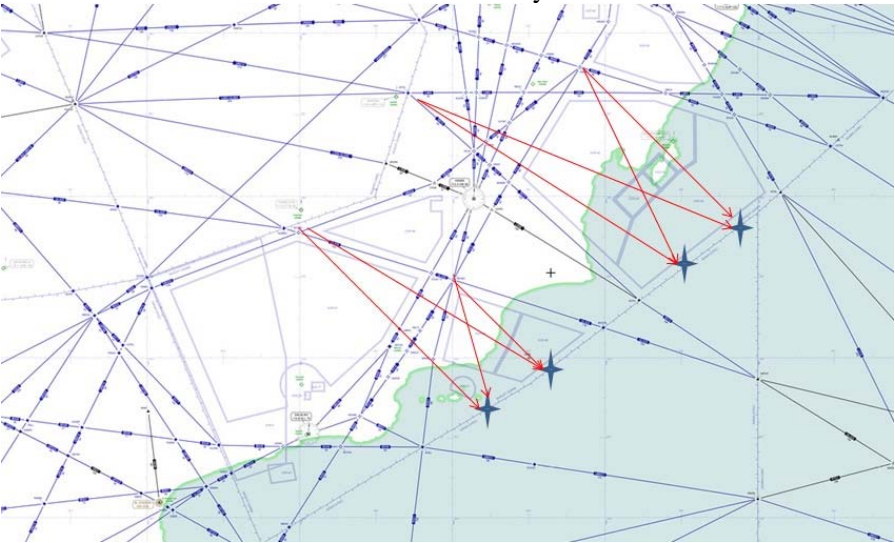
2.2 Extended range VHF will cover the communication problem in west side of Arabian sea  
ADS-B/RADAR and Extended VHF



2.3 Parts of the Sanaa and Mogadishu airspace is not under coverage, it will be good to consider to have the support from the neighboring FIRs equipping Datalink.

2.4 Additional oceanic access points and CDR under ADS-B/Radar cover will support

- Offset the traffic flow to Arabian sea from northern gulf states in summer time.
- Better access to eastern Africa and Indian ocean islands states.
- Extend the UPR zone to Muscat boundary



3. **ACTION BY THE MEETING**

3.1 The meeting is invited to discuss

- a) Strategy of enhancement of surveillance and communication
- b) Enhancement of Access to UPR airspace and extension of UPR Airspace.