



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

MID ATM CP Implementation

ICAO MID – 20240625-28



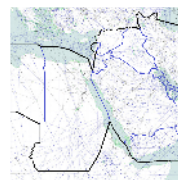
ICAO MID

Experience
& lesson
learned-1



ICAO MID

Experience
& lesson
learned-2



MID States

Experience
& lesson
learned



ICAO MID & MID States

- Outcomes



Experience & lesson learned-1

Since 14 April 2023



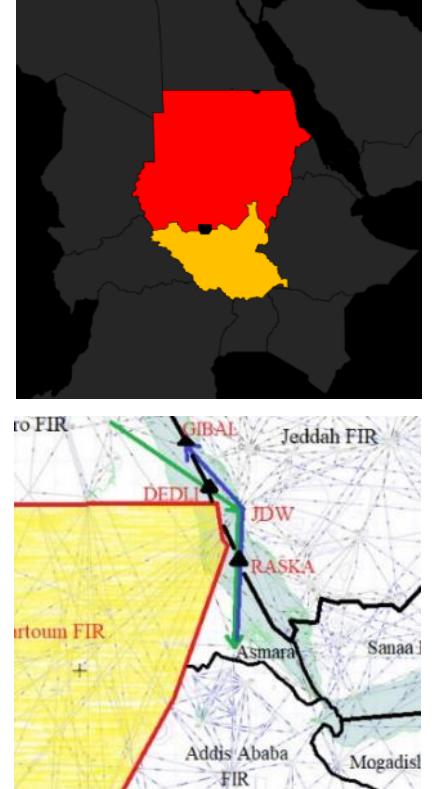
Recent CCT Activities: Khartoum FIR

- **April 2023**

The ICAO MID Regional Office received information on 15 April 2023 regarding the interruption of Air Navigation Service provisions within Khartoum FIR due to the security unrest in Sudan.

The ICAO Regional Offices immediately notified the adjacent States, IATA AME/Airspace Users. Consequently, Khartoum FIR CCT was activated.

NOTAMs has been issued by Egypt on behalf of Sudan, and diversionary routing options were published, through Jeddah FIR.



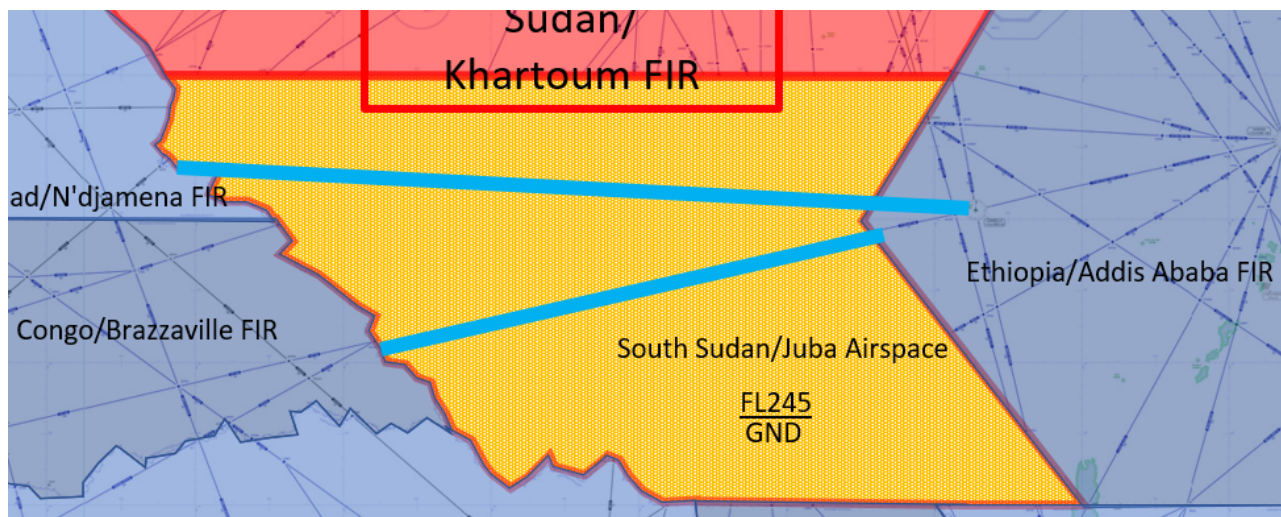
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Recent CCT Activities: Khartoum FIR

- **May 2023**

The CCT members agreed on Contingency Routing within KFOSS245+ (CR1 and CR2) and the first Khartoum FIR Contingency Plan was developed, effective 0001 on 22 May 2023.



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Recent CCT Activities: Khartoum FIR

- **August 2023**

The CCT received operational requests to operate from/to Port Sudan Airport (HSPN). The CCT reviewed the proposals and developed the required parts within the Contingency Plan to include arrival and departure routing options to connect HSPN with the ATS route structure within Cairo and Jeddah FIRs.

- **November 2023**

Introduction of Flight Information and Alerting Service within KFOSS245+ by Juba Information with the support of Sudan.

- **On going**

Sudan provided updates on the Civil Military coordination and the conflict footprint on the ground, additionally the enhancements introduced to the ATS Unit at port Sudan including Manning power and CNS facilities. Additionally, the operational requests received to operate over the eastern part of Khartoum FIR



ICAO APAC/MID ATM Contingency Planning Workshop (Bangkok, Thailand, 25–28 June 2024)

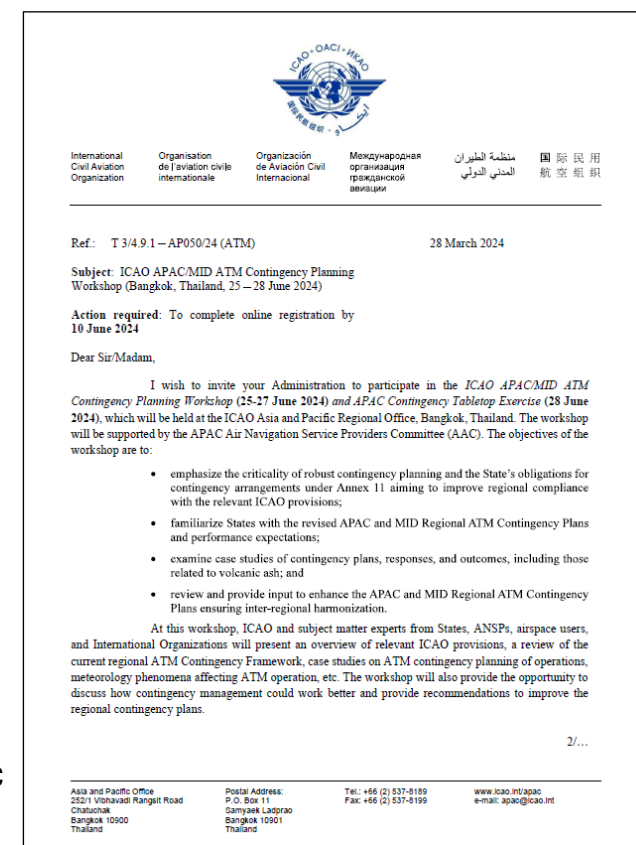
Link:

<https://www.icao.int/APAC/Meetings/Pages/2024-ATM-Contingency-WS-TTX.aspx>

Agenda:

1. ICAO Provisions and guidance material related to contingency arrangements
2. Review of the current regional ATM Contingency Framework arrangements, and deactivation)
3. Case studies
4. Breakout sessions to conduct practical scenarios and review the Regional ATM Contingency Plans.

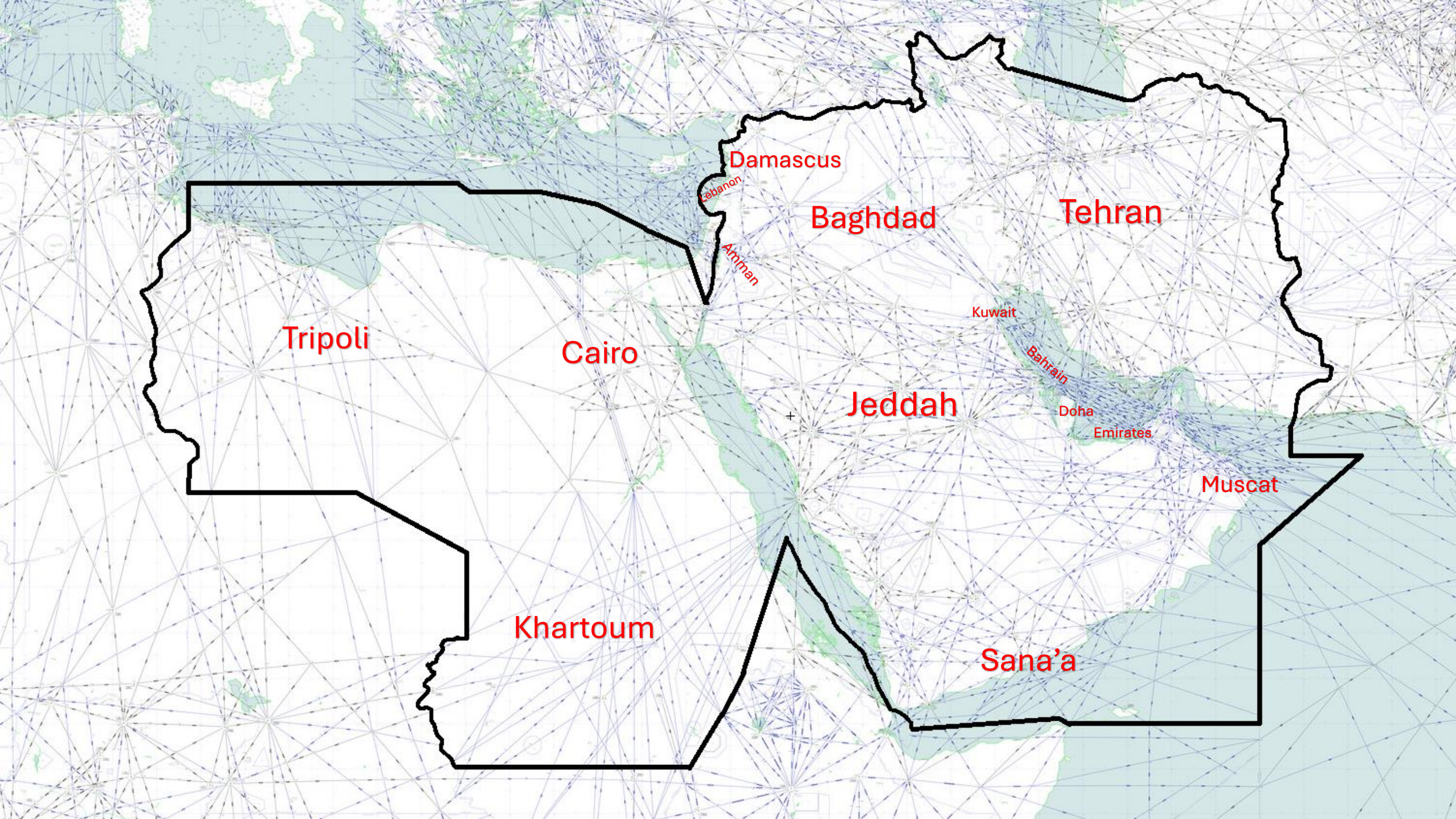
The ICAO MID Office, with the support of HQ, is planning to conduct state specific workshops, to support the development of the National Contingency Plan.





Experience & lesson learned-2

13-19 April 2023



Tripoli

Cairo

Khartoum

Damascus

Lebanon

Amman

Baghdad

Jeddah

Kuwait

Bahrain

Tehran

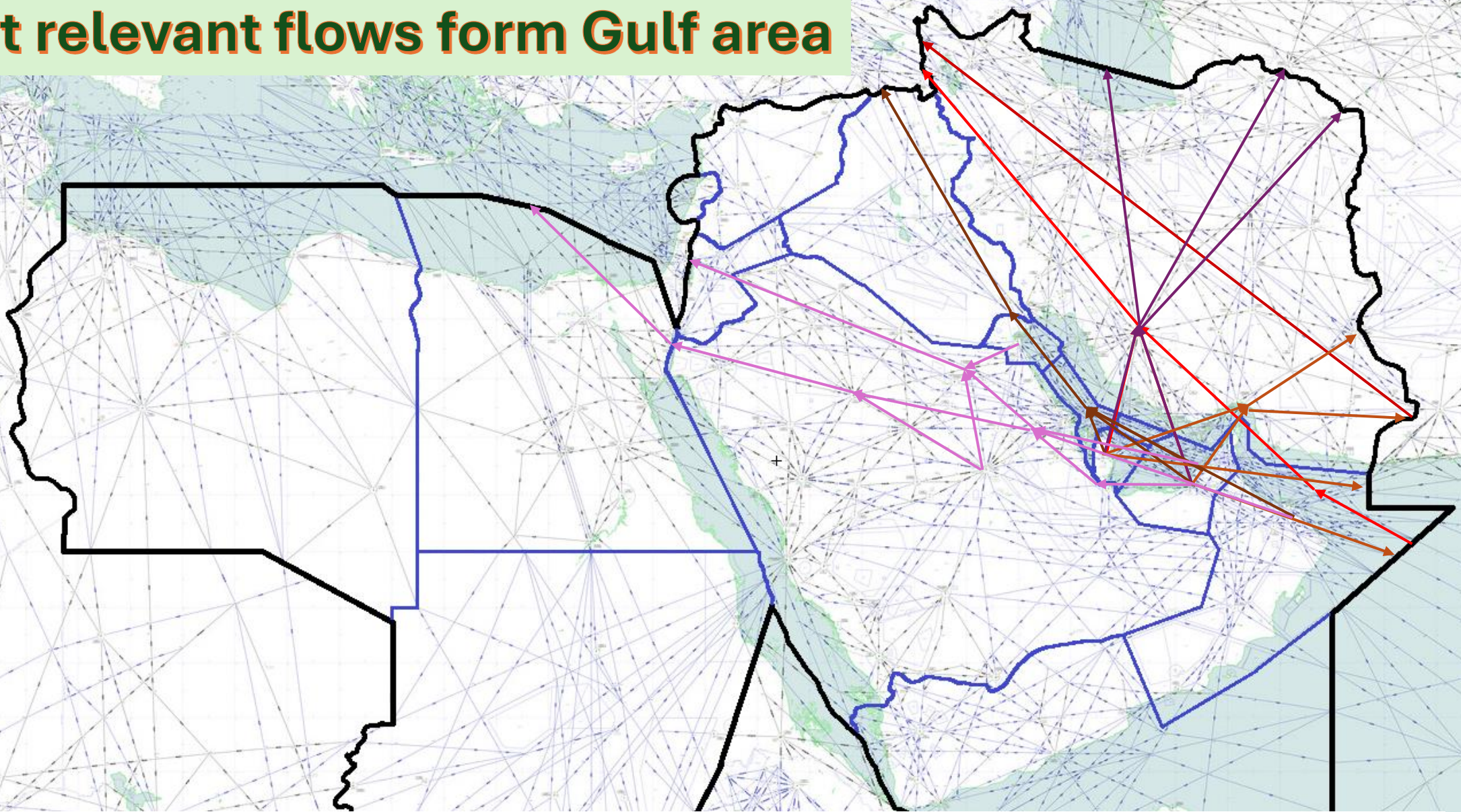
Doha

Emirates

Muscat

Sana'a

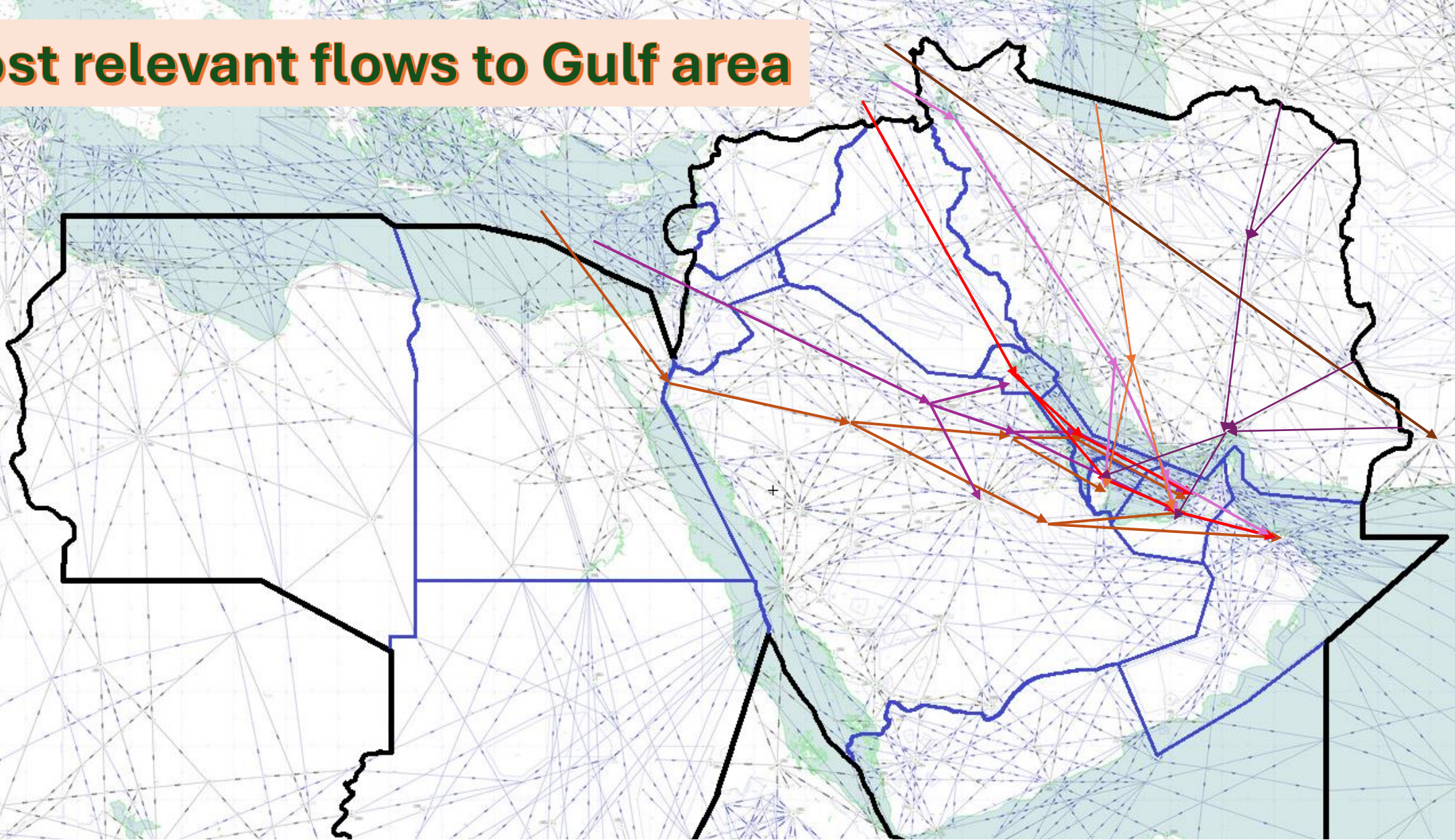
Most relevant flows form Gulf area



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Source, [SkyVector: Flight Planning / Aeronautical Charts](#)

Most relevant flows to Gulf area



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Source, [SkyVector: Flight Planning / Aeronautical Charts](#)

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Summary-1-1

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Summary

NOTAM #: A1409/24

Class: **International**

Status: **Active**

Issue Date UTC: 04/20/2024 1334

Start Date UTC: 04/20/2024 1331

End Date UTC: 04/25/2024 2030EST

A1409/24 NOTAMN Q) OIIX/QAFXX/E/000/999/ A) OIIX B) 2404201331 C) 2404252030 EST E) THE FOLLOWING TEMP TRAFFIC ORIENTATION SCHEME (TOS) WITHIN OIIX IS AVAILABLE FOR FLIGHTS FM OMAE FIR TO LTAA FIR GABKO M317/M318 RADEB N440 MOBON DCT RERET DCT DASEL Z720 RST L333 DASH.

NOTAM #: A1410/24

Class: **International**

Status: **Active**

Issue Date UTC: 04/20/2024 1334

Start Date UTC: 04/20/2024 1334

End Date UTC: 04/25/2024 2030EST

A1410/24 NOTAMN Q) OIIX/QAFXX/IV/NBO/A/000/999/ A) OIIX B) 2404201334 C) 2404252030 EST E) THE FOLLOWING TEMP TRAFFIC ORIENTATION SCHEME (TOS) WITHIN OIIX IS AVAILABLE FOR FLIGHTS FM OMAE FIR TO UBBA FIR GABKO M317/M318 RADEB N440 MOBON DCT RERET DCT DASEL N319/P567 ULDUS.

NOTAM #: A1411/24

Class: **International**

Status: **Active**

Issue Date UTC: 04/20/2024 1337

Start Date UTC: 04/20/2024 1336

End Date UTC: 04/25/2024 2030EST

A1411/24 NOTAMN Q) OIIX/QAFXX/E/000/999/ A) OIIX B) 2404201336 C) 2404252030 EST E) THE FOLLOWING TEMP TRAFFIC ORIENTATION SCHEME (TOS) WITHIN OIIX IS AVAILABLE FOR FLIGHTS FM OMAE FIR TO UDDD FIR GABKO M317/M318 RADEB N440 MOBON DCT RERET DCT DASEL Z720 RST L333 BUDED R654 MAGRI.

NOTAM #: A1412/24

Class: **International**

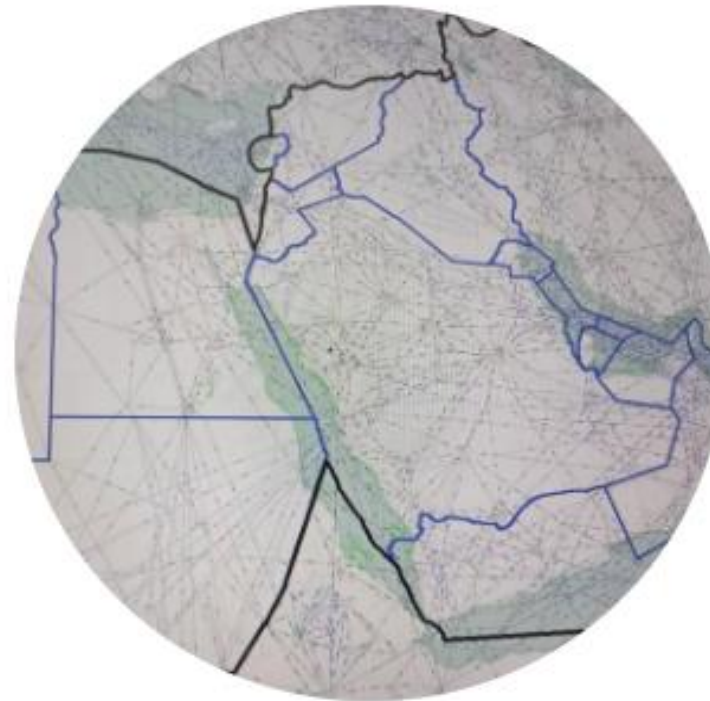
Status: **Active**

Issue Date UTC: 04/20/2024 1338

Start Date UTC: 04/20/2024 1338

End Date UTC: 04/25/2024 2030EST

A1412/24 NOTAMN Q) OIIX/QAFXX/E/000/999/ A) OIIX B) 2404201338 C) 2404252030 EST E) THE FOLLOWING TEMP TRAFFIC ORIENTATION SCHEME (TOS) WITHIN OIIX IS AVAILABLE FOR FLIGHTS FM UDDD FIR TO OMAE FIR MAGRI R654 GODNA P146 RST L333 NSH R794 DHN DCT LORIX Z5 LAR B541 ORSAR.



MID Political tension CCT



Group · 52 members

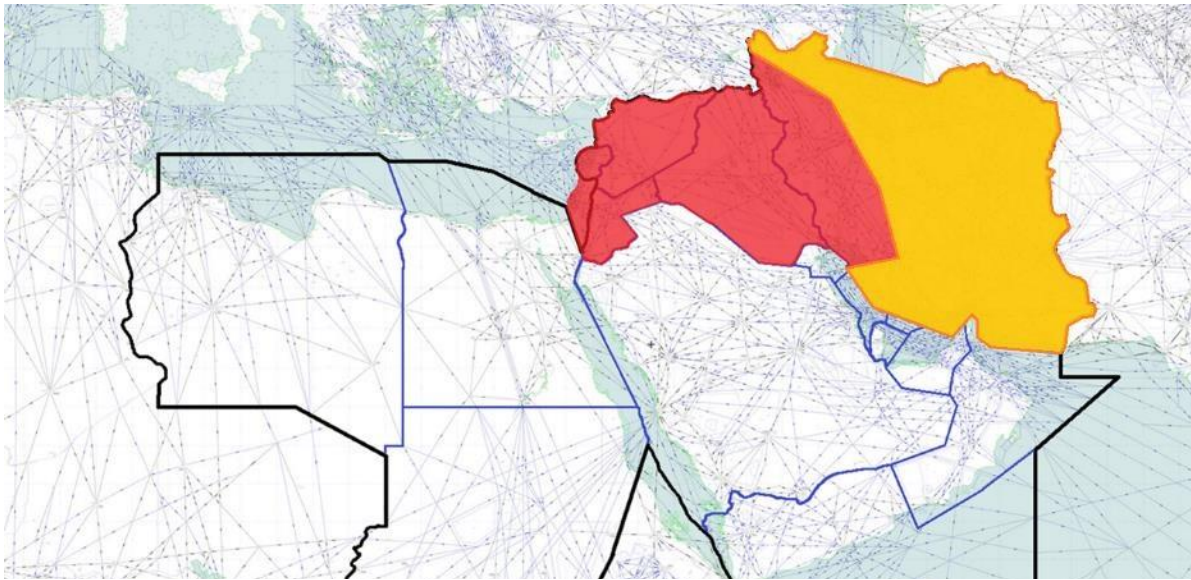
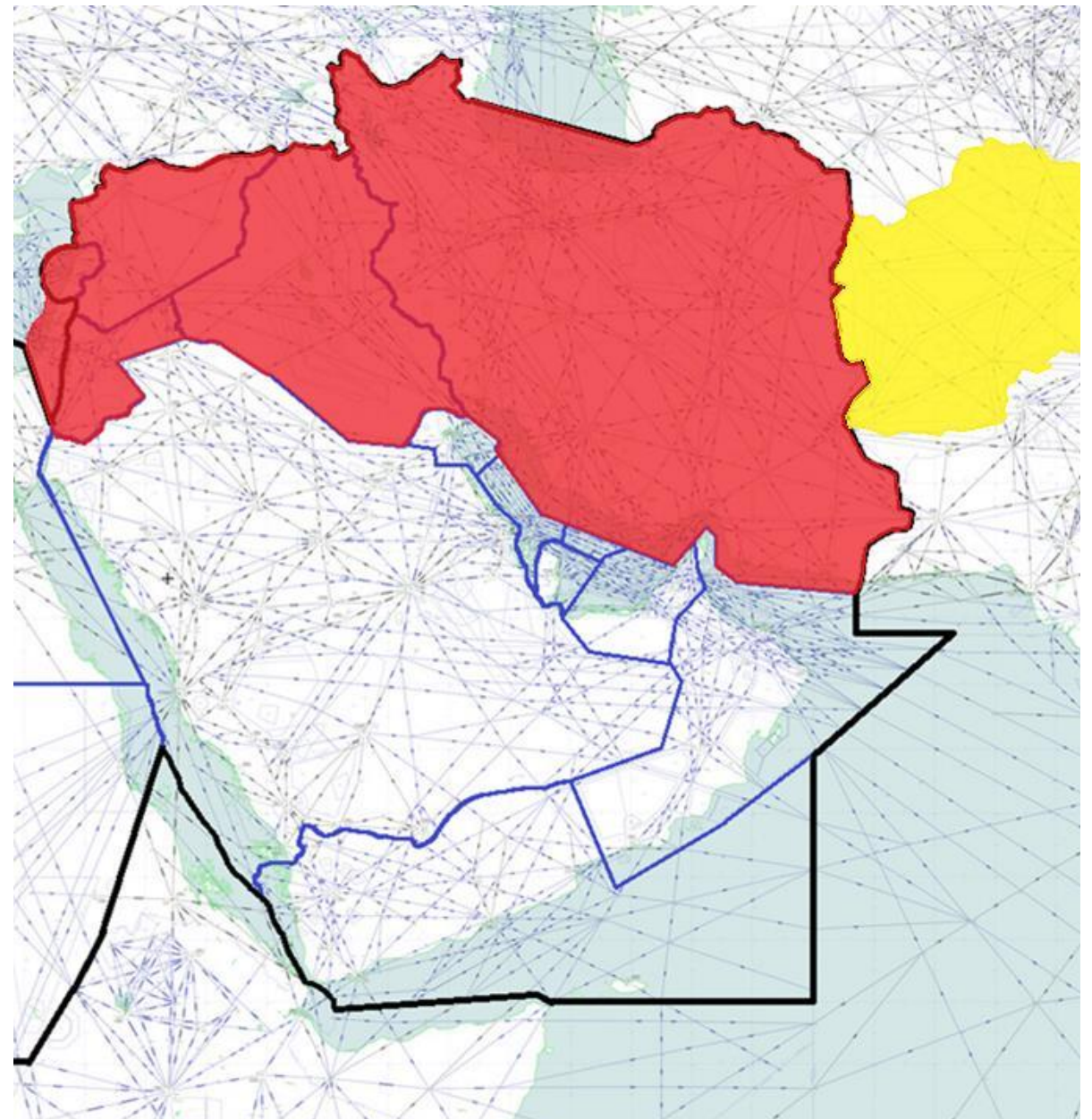
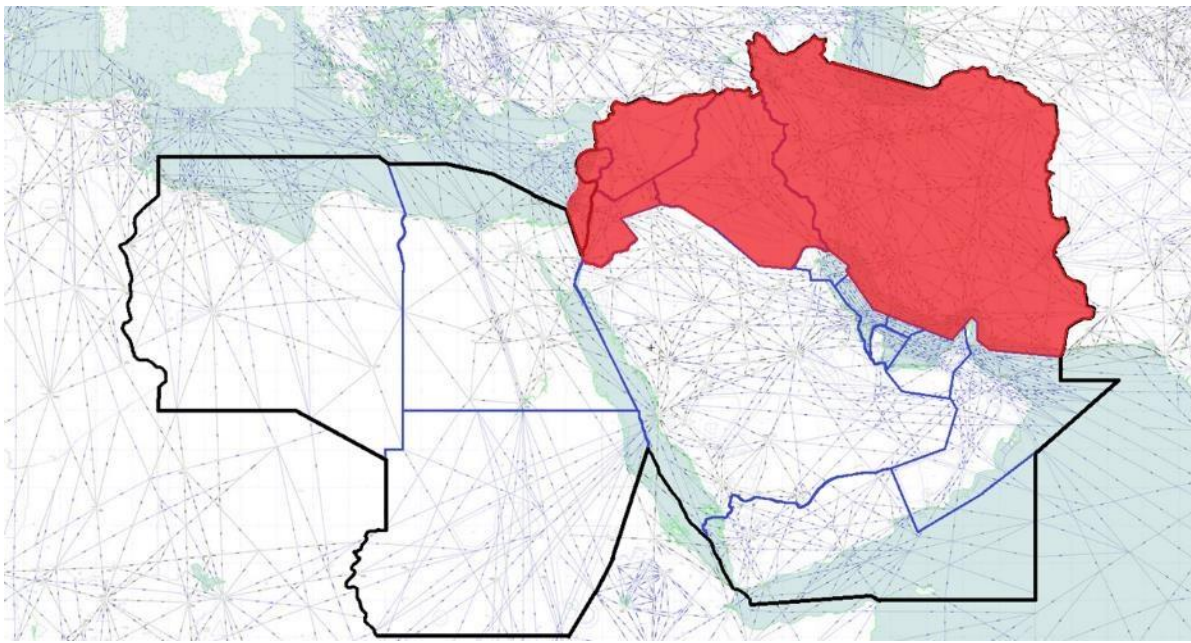
Case Study

Date	Time (UTC)	Related principle	Actions
08 March 2024	-	Preparation	ICAO MID Doc 003 (Regional ATM contingency plan) edition 5 approved by MIDANPIRG/21
10 April 2024	-	Repository	States/ANSP, Regional and international organizations focal point updated
10 April 2024	-	Monitoring	<ul style="list-style-type: none"> Realized State issued Suspicious NOTAMs Specific airline cancelled flight to concerned State
10 April 2024	-	Collect Data and information	Collect data and information through public media
10 April 2024	-	Verification	Verify collected information and data with concerned State
10 April 2024	1745	Coordination	Internal coordination with manager and HQ have been done
11 April 2024	0020	Authorization	Permission was granted to active CCT

Date	Time (UTC)	Related principle	Actions
11 April 2024	1130	Notification	Activation of CCT notified to Focal Points through email.
11 April 2024	1200	Establishment of WhatsApp Group	Based on contact list and some update received from States WhatsApp group was established
11 April 2024	-	Establishment of Team	In addition of States FPs, ICAO HQ, MID, EUR/NAT, IATA, assigned relevant expert
11 April 2024	1220	Notification	Informed CCT members to collect data and information
13 April 2024	-	Monitor	<ul style="list-style-type: none"> Through telephone, email and public media Some flight to concerned States were cancelled
13 April 2024	-	Collaborative decision making	Set up the scene for contribution of CCT members
13 April 2024	1813	Sharing data and information	<ul style="list-style-type: none"> Available data and information were collected and shared with CCT members through WhatsApp Information received one FIR is going to close

Date	Time (UTC)	Related principle	Actions
13 April 2024	-	Gap Analysis	<ul style="list-style-type: none"> The area which was subject to attack has been identified States conducted civil and military coordination
13 April 2024	-	Brainstorming	The possible solutions have been proposed by members
13 April 2024	1912	Agree on the way forward	<ul style="list-style-type: none"> Based on lessen learned from past contingency, one of the most available option was to use specific unidirectional airway as bidirectional. Establish some diversionary route based on available 5LNCs to avoid conflict area
13 April 2024	-	Safety risk Assessment	Relevant states conducted required safety assessment to implement agreed solutions
13 April 2024	-	Technical & OPS requirement	Related ATM system & staff have been adapted based on agreed solutions
13 April 2024	1922	LOA or LOP	Additional LOP has been agreed between concerned FIRs to pass traffic in accordance with solutions

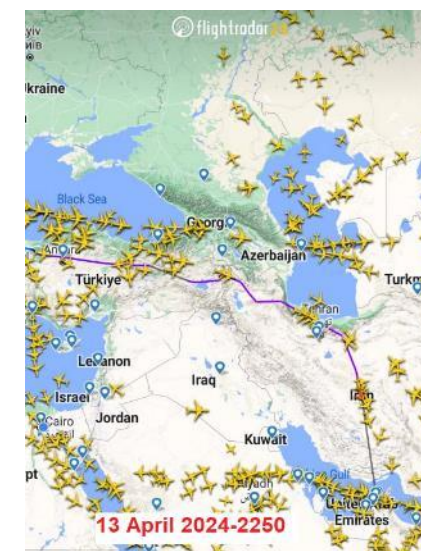
Date	Time (UTC)	Related principle	Actions
13 April 2024	-	Training	Required information passed by CCT members to stakeholders to prepare themselves to implement agreed solutions
13 April 2024	2032	Harmonized notification	<ul style="list-style-type: none"> Required NOTAMs were issued & shared with CCT members list of valid NOTAMs updated & shared with CCT members
13 April 2024	2035	Harmonized implementation	Relevant ACCs were coordinated with adjacent FIRs to implement agreed solutions successfully.
13 April 2024	-	Monitor	<ul style="list-style-type: none"> CCT monitored the progress of the contingency and the implementation of agreed solutions Used Radar24 Some FIRs opened their airspace
14 April 2024	0800	Gap Analysis	<ul style="list-style-type: none"> Post implementation review to identify new gaps and lift unnecessary restrictions Requested from IATA to provide AUs demand
14 April 2024	-	Brainstorming	Proposed new solutions by CCT members
13 April 2024	-	Agree on the way forward	<ul style="list-style-type: none"> Cancel unnecessary diversionary routes based on AUs demand Extension of agreed NOTAMs



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Source, [SkyVector: Flight Planning / Aeronautical Charts](#)

13 - 15 April 2024



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Source, www.flightradar24.com

Post implementation assessment - **Strength**

- The CCT was activated, and contingency group was established **well in advance**;
- The CCT members showed a significant level of **preparedness** and **consciousness** to carry out contingency measures;
- The successful **optimization** of available **airspace** was achieved through effective coordination between **civil and military** authorities;
- CCT coordination expedited with an updated **list of Focal Points**;
- CCT's **previous experience** enabled team to respond to contingency in a more efficient manner;
- Related NOTAMs have been issued in the harmonized manner;
- **Summary of updated NOTAMs** supported CCT members to have a clear vision about the progress of contingency; and
- **Safety issues** have not been reported regarding implementation of contingency measures.

Post implementation assessment – Opportunity

- Using a **public platform** for coordinating among CCT members was a successful experience;
- New contingency **route options** have been identified;

Post implementation assessment – **Weakness**

The **setup process** has become even more **complex** with the addition of **new focal points** or the **updating of telephone** numbers.

Post implementation assessment – Threats

No permission was given to use the public platform for coordination among CCT members from a security and legal standpoint.

The background of the slide is a map of the Midwestern United States, specifically showing the states of Minnesota, Wisconsin, Illinois, Indiana, Michigan, and Ohio. Overlaid on this map is a dense, complex network of thin, light blue lines that connect various points across the region, resembling a transportation or communication network. The text is centered over the map.

Experience & lesson learned by MID States



Outcomes



Thank You!