



INTERNATIONAL CIVIL AVIATION ORGANIZATION
MIDDLE EAST OFFICE

**REPORT OF THE TWELFTH MEETING OF
MIDANPIRG RVSM TASK FORCE
(MID RVSM TF/12)**

(Cairo, 29 –31 May 2006)

The views expressed in this Report should be taken as those of the RVSM Task Force and not the Organization. This Report will, however, be submitted to the MIDANPIRG and any formal action taken will be published in due course as a Supplement to the Report.

Approved by the Meeting
And published by authority of the Secretary General

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MID RVSM TF/12
History of the Meeting

PART I - HISTORY OF THE MEETING

1. PLACE AND DURATION

1.1 The Twelfth Meeting of MIDANPIRG Reduced Vertical Separation Minimum Task Force (RVSM TF/12), was held at the Conference Room of the ICAO Middle East Regional Office, Cairo from 29 to 31 May 2006.

2. OPENING

2.1 The meeting was opened by Mr. Mohamed R. M. Khonji, Regional Director ICAO Middle East Office, who welcomed all participants to Cairo and wished them a successful and fruitful meeting. He briefly recalled the RVSM implementation process in the MID Region and briefly indicated the outcome of the MID RMA/1 and MID RMA Board/1 meetings highlighting the good cooperation of States and the fruitful discussions observed during these meetings, which led to the establishment of the MID RMA in Bahrain effective 24 November 2005.

2.2 Mr. Khonji recalled that, taking into consideration the MID RMA duties and responsibilities, the MID RMA Board/2 meeting agreed that the MID RMA is responsible for the development of the RVSM post-implementation safety analysis which should be ready before 24 November 2006 with a view to be presented to MIDANPIRG/10 meeting planned for early 2007. He noted with concern the difficulties the MID RMA is encountering for the collection of data and emphasized that unless States make all effort to provide the required data, the RVSM post-implementation safety analysis could not be developed and the MID RMA could not carry out its functions as specified in its Terms of Reference, duties and responsibilities.

2.3 Mr. Khonji pointed out that one of the imported issues which are on the agenda of the meeting is the implementation of RVSM within Baghdad and Kabul FIRs. In this regard, he extended special welcome and thanks to the Afghani delegation who are attending an ICAO meeting in Cairo for the first time.

2.4 Finally, Mr. Khonji thanked EUROCONTROL for their sustained support and assistance that have greatly contributed in the materialization of the MID RMA project. He thanked also IATA, IFALPA, IFATCA and FAA for their presence and wished the meeting every success in its deliberations.

3. ATTENDANCE

3.1 The meeting was attended by a total of 40 participants from 10 States (Afghanistan, Bahrain, Egypt, Iraq, Jordan, Kuwait, Oman, Saudi Arabia, Syria and the United States (FAA) and 4 Organizations (EUROCONTROL, IATA, IFALPA and IFATCA). The list of participants is at **Appendix A** to the report.

4. OFFICERS AND SECRETARIAT

1.1 The meeting was chaired by Mr. Sabri Said Al-Busaidy from Oman. Mr. Mohamed Smaoui, Regional Officer Aeronautical Information and Charts/Meteorology (RO/AIS/MET) from the ICAO Middle East Regional Office, was the Secretary of the meeting. The Regional Director also participated actively in the discussions.

5. LANGUAGE

5.1 The discussions were conducted in English. Documentation was issued in English.

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History of the Meeting

6. AGENDA

6.1 The following Agenda was adopted:

- Agenda Item 1: Adoption of the provisional agenda.
- Agenda Item 2: Status of MIDANPIRG Conclusions/Decisions concerning implementation of RVSM in the MID Region.
- Agenda Item 3: RVSM post-implementation in the MID Region
- Progress report on MID RMA Project;
 - Safety and monitoring aspects.
- Agenda Item 4: ATC operations aspects
- MID ATS Route network;
 - Proper handling of flight plans.
- Agenda Item 5: Implementation of RVSM within Baghdad and Kabul FIRs.
- Agenda Item 6: Any other business.

2 CONCLUSIONS AND DECISIONS – DEFINITION

2.1 The MIDANPIRG records its actions in the form of Conclusions and Decisions with the following significance:

2.2 **Conclusions** deal with matters that, according to the Group's terms of reference, merit directly the attention of States, or on which further action will be initiated by the Secretary in accordance with established procedures; and

2.3 **Decisions** relate solely to matters dealing with the internal working arrangements of the Group and its Sub-Groups.

3 LIST OF CONCLUSIONS AND DECISIONS

- DRAFT CONCLUSION12/1: PROVISION OF DATA FOR THE DEVELOPMENT OF THE RVSM POST- IMPLEMENTATION SAFETY ANALYSIS
- DRAFT CONCLUSION 12/2: SPECIAL BAGHDAD FIR COORDINATION MEETING
- DRAFT CONCLUSION12/3: SURVEY RELATIVE TO THE IMPROPER HANDLING OF FPLS AND ASSOCIATED ATS MESSAGES
- DRAFT CONCLUSION 12/4: FLEXIBLE HANDLING OF TRAFFIC INTENDING TO USE THE RVSM AIRSPACE
- DRAFT DECISION 12/5: REVISED TERMS OF REFERENCE OF THE RVSM TASK FORCE

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Report on Agenda Item 1

PART II: REPORT ON AGENDA ITEMS

REPORT ON AGENDA ITEM 1: ADOPTION OF THE PROVISIONAL AGENDA

1.1 The meeting reviewed and adopted the Provisional Agenda as at Para 6 of the History of the Meeting.

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Report on Agenda Item 2

**REPORT ON AGENDA ITEM 2: STATUS OF MIDANPIRG CONCLUSIONS/DECISIONS
CONCERNING IMPLEMENTATION OF RVSM IN THE MID
REGION**

2.1 Under this agenda item, the meeting recalled that MIDANPIRG/9 Meeting was presented with the list of outstanding Conclusions and Decisions emanating from MIDANPIRG 5, 6, 7 and 8 meetings and noted the follow-up actions taken pursuant to those Conclusions and Decisions.

2.2 The meeting noted the follow up actions taken by the Secretariat and States on current MIDANPIRG Conclusions and Decisions relevant to the implementation of RVSM in the MID Region attached at **Appendix 2A** to the report on Agenda Item 2.

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Report on Agenda Item 3

REPORT ON AGENDA ITEM 3: RVSM POST - IMPLEMENTATION IN THE MID REGION

3.1 Under this agenda item the meeting was presented with an overview of the coordination process that has taken place between the ICAO MID Regional Office, ICAO HQs and MID States with regard to the MID RMA Project.

3.2 The meeting noted with appreciation that further to the cease of the activities of the Middle East Central Monitoring Agency (MECMA), effective 30 June 2004, and as a follow-up to MIDANPIRG/9 Conclusion 9/13, the Middle East Regional Monitoring Agency (MID RMA) has been established in Bahrain and is operational since 24 November 2005. The meeting was informed that the MID RMA premises have been shifted to the new Control tower building at Bahrain Int'l airport.

3.3 The meeting was apprised of the outcome of the MID RMA/1, MID RMA Board/1 and MID RMA Board/2 meetings. In this regard, the meeting recalled that ten (10) MID States, namely: Bahrain, Egypt, Iran, Jordan, Kuwait, Lebanon, Oman, Saudi Arabia, Syria and Yemen committed themselves to participate in the MID RMA project by signing the Memorandum Of Agreement (MOA) on the establishment, operation and management of the MID RMA and its funding by the participating States.

3.4 The meeting appreciated the initiative of the MID RMA Board to invite UAE to join the MID RMA project and to exempt them from the payment of contributions for the first ten (10) years of operation of the MID RMA as stated in the MID RMA Board/2 Draft Conclusion 2/4 which reads as follows:

DRAFT CONCLUSION 2/4: MEMBERSHIP OF THE MID RMA

That,

- a) *Bahrain, Egypt, Iran, Jordan, Kuwait, Lebanon, Oman, Saudi Arabia, Syria and Yemen committed themselves to participate in the MID RMA project; and*
- b) *taking into consideration the tremendous efforts deployed by UAE in the preparation for the successful and safe implementation of RVSM in the MID Region, UAE is:*
 - i. *invited to join the MID RMA Project; and*
 - ii. *is to be exempted from the payment of contributions for the first ten (10) years of operation of the MID RMA.*

3.5 The meeting was informed of the follow-up action taken by the ICAO MID Regional office with regards to the above Conclusion and noted with concern that UAE has not yet reacted favourably to this proposal.

3.6 It was noted with appreciation that the MID RMA Project Action Plan, as updated by the MID RMA Board/2 meeting, is progressing as planned and the timelines are met. However, concern was raised regarding the progress made for the development of the RVSM post-implementation safety analysis.

3.7 The meeting recognized that the responsibilities of an RMA continue even after RVSM implementation. The overall intent of RMA activities after implementation is to support continued and safe use of RVSM. The meeting recognized that various methodologies have been used for the development of the RVSM post-implementation safety analysis and that they are

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Report on Agenda Item 3

specific to each region and recalled that the MID RMA Board/2 meeting has recognized that the methodology currently used by EUROCONTROL is best suited for the MID-Region. In this regard, The meeting noted with appreciation the offer made by EUROCONTROL to train, at no expense, the MID RMA staff in Brussels with a view to acquire the necessary expertise for the development of the RVSM post-implementation safety analysis.

3.8 The meeting noted that the MID RMA Board/2 meeting had developed Draft Conclusion 2/5, which reads as follows:

DRAFT CONCLUSION 2/5: SAFETY ASSESSMENT ACTIVITY

That,

- a) in accordance with its Duties and Responsibilities, the MID RMA is responsible for the development of the RVSM post-implementation safety analysis for the MID Region;*
- b) support contractor/consultant might be required for the development of the RVSM post-implementation safety analysis and selection of the appropriate methodology; and*
- c) the RVSM post-implementation safety analysis is to be ready before 24 November 2006 with a view to be presented to MIDANPIRG/10 meeting;*
- d) the MID RMA determine the exact type and format of data required and inform States accordingly; and*
- e) States provide the required data on a regular basis.*

3.9 The meeting noted that as a follow-up action, the MID RMA sent letters, emails, faxes and reminders to States asking for data related to the updated RVSM approvals and traffic data between FL290 and FL410 (inclusive) for the month of April 2006. It was highlighted that MS Excel sheets defining exactly the type and format of required data have been sent to States. In this regard the meeting recognized that States have to provide exactly the same type of data they provided for the development of the RVSM pre-implementation safety assessment. Accordingly, the meeting urged States to provide the required data to the MID RMA on a regular basis as agreed by MIDANPIRG/9 under Conclusion 9/23:

CONCLUSION 9/23: DATA FOR SUSTAINED SAFETY ASSURANCE OF RNP AND RVSM WITHIN THE MID REGION

That, considering the on-going requirement for safety assurance related to RVSM and RNP operations within the Middle East Region,

- a) all States report data and incidents necessary for performing collision risk calculations required for sustained safe RVSM operations to the MID RMA*. The data will include, but not necessarily be limited to:*
 - i) assigned altitude deviations of 300 ft or more (monthly);*
 - ii) total number of IFR movements (monthly);*
 - iii) average time per movement spent in the level band FL290 - FL410;*
 - iv) ATC/ATC coordination failures (monthly); and*
 - v) traffic data (as requested by the MID RMA)*;*

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Report on Agenda Item 3

- b) *monitoring States report navigational errors and traffic data in accordance with the Letter of Agreement concerning monitoring associated with RNP;*
- c) *air operators maintain procedures for reporting of turbulence;*
- d) *States report data on approval of operators and aircraft for RVSM operations (monthly); and*
- e) *the MID RMA* ensures that further processing and evaluation of this data within its Terms of Reference and identifies or develops methodologies for assessing risk associated with operational procedures prevailing within the MID Region.*

** MID RMA to be established*

Note: Until the MID RMA is established, States forward to the ICAO MID Regional Office any relevant information likely to have a negative impact on the safe operations of RNP and RVSM in the region.

3.10 Concern was raised regarding the unsatisfactory level of replies. With the exception of one or two States, the majority of States have either not provided the required data or provided incomplete data. The meeting noted with appreciation that the available data is posted on the MID RMA website at: www.midrma.com which is now operational and urged States to visit this website and provide their comments/feedback to the MID RMA with a view to enhance the website. The meeting noted the content of the MID RMA database pertaining to States' RVSM approvals at **Appendix 3A** to the report on Agenda Item 3 and urged the MID RMA to ensure that the requests for provision of data are extended to MID States' RVSM Programme Managers and their Alternates. In this regard, the meeting was of view that the RVSM Programme Managers shall act as focal points and carry out the necessary internal coordination with a view to speed up the process and provide the MID RMA with the requested data. Bearing in mind that more than three (3) years have elapsed since the designation of the RVSM Programme Managers by States changes have occurred and accordingly an update of the list at **Appendix 3B** to the report on Agenda Item 3 is required. It was clarified in this respect that the RVSM Programme Managers who have been carrying out specific technical tasks pertaining to RVSM implementation are not necessarily the same as the MID RMA Board Members who are responsible for the overall supervision of the management of the MID RMA and its funding. However, the meeting urged States to ensure that good communication and cooperation between the RVSM Programme Managers and the MID RMA Board Members is established and observed.

3.11 The meeting was informed that RVSM post-implementation safety analysis encompasses both horizontal and vertical analysis. For the horizontal analysis, radar data within the Bahrain FIR for the northern part of Bahrain (BAH) will be used. A data sample has been already forwarded to EUROCONTROL for evaluation. Additional radar data analysis activities have been planned. For the vertical assessment the traffic data for the month of April 2006 is a mandatory pre-requisite. Some States mentioned that the main cause for the delay in the provision of traffic data is due to the manual processing of this data.

3.12 The meeting emphasized that unless States make all effort to provide the required data, the RVSM post-implementation safety analysis could not be developed and the MID RMA could not carry out its functions as specified in its Terms of Reference (TOR), duties and responsibilities.

3.13 In order to achieve the objectives and enable the MID RMA to discharge its responsibilities, the meeting urged States to provide the required data to the MID RMA prior to 30 June 2006.

3.14 Based on the above the meeting developed the following draft Conclusion:

***DRAFT CONCLUSION 12/1: PROVISION OF DATA FOR THE DEVELOPMENT OF THE RVSM
POST- IMPLEMENTATION SAFETY ANALYSIS***

That, in accordance with MIDANPIRG/9 Conclusion 9/23 and with a view to have the RVSM post-implementation safety analysis ready before 24 November 2006:

- a) States provide the required data to the MID RMA prior to 30 June 2006;*
- b) the MID RMA ensures that the requests for provision of data are extended to MID States' RVSM Programme Managers and their Alternates in order to carry out the necessary internal coordination and speed up the process of collection of data; and*
- c) States ensure that good communication and cooperation between the RVSM Programme Managers and the MID RMA Board Members is established and observed.*

3.15 The meeting agreed that as a follow-up to this Draft Conclusion the ICAO MID Regional Office is to send an official letter to States to emphasize the need for the provision of the required data prior to 30 June 2006 and to ask for the update of the contact details of the RVSM Programme Managers and their Alternates.

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 Appendix 3A to the Report on Agenda Item 3

BAHRAIN								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	Royal FLT	A9CBA	B727	21824	894002	Bahrain	18/1/2000	
2	Royal FLT	A9CBAH	G4	1353	894001	Bahrain	07/04/1999	
3	Royal FLT	A9CHMH	B74SP	21649	894006	Bahrain	23/10/2002	
4	Royal FLT	A9CHMK	B747-400	33684	894014	Bahrain	10/01/2006	
5	BDF	A9CBDF	AVRO RJ-85	E2390	894011	Bahrain	21/10/2003	
6	BDF	A9CHWR	AVRO RJ-85	E2306	894016	Bahrain	28/11/2004	
7	BEXAIR	A9CBXA	560 Citation Excel	560-5046	894008	Bahrain	14/8/2003	
8	BEXAIR	A9CBXB	CL-604	5477	894009	Bahrain	08/11/2003	
9	BEXAIR	A9CBXC	Cessna 550 B	550-1050	894013	Bahrain	01/06/2004	
10	BEXAIR	A9CBXD	CL-601	5194	894015	Bahrain	09/06/2004	
11	BEXAIR	A9CBXG	CL-604	5485	89401D	Bahrain	14/10/2005	
12	BEXAIR	A9CBXH	CL-604	5476	89401E	Bahrain	21/2/2006	

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EGYPT								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	MSR	SUBDG	A300-B4	200	010038	Egypt	1/12001	
2	MSR	SUGAC	A300-B4	255	010039	Egypt	1/1/2001	
3	MSR	SUGAS	A300-600	561	010009	Egypt	12/1/2000	
4	MSR	SUGAU	A300-600	575	01000B	Egypt	12/1/2000	
5	MSR	SUGAY	A300-600	607	01000F	Egypt	12/1/2000	
6	MSR	SUGBA	A320-231	165	010011	Egypt	12/12000	
7	MSR	SUGBB	A320-231	166	010012	Egypt	12/1/2000	
8	MSR	SUGBC	A320-231	178	010013	Egypt	12/1/2000	
9	MSR	SUGBD	A320-231	194	010014	Egypt	12/1/2000	
10	MSR	SUGBE	A320-231	198	010015	Egypt	12/1/2000	
11	MSR	SUGBF	A320-231	351	010016	Egypt	12/1/2000	
12	MSR	SUGBG	A320-231	366	010017	Egypt	12/1/2000	
13	MSR	SUGBZ	A320-232	2070	010090	Egypt	3/8/2004	
14	MSR	SUGCA	A320-232	2073	010091	Egypt	3/8/2004	
15	MSR	SUGCB	A320-232	2079	010092	Egypt	3/8/2004	
16	MSR	SUGCC	A320-232	2088	010093	Egypt	3/8/2004	
17	MSR	SUGCD	A320-232	2094	010094	Egypt	3/8/2004	
18	MSR	SUGGG	A340-243	61	010024	Egypt	28/11/1999	
19	MSR	SUGBM	A340-243	156	010025	Egypt	30/6/1999	
20	MSR	SUGBN	A340-243	159	010026	Egypt	30/6/1999	
21	MSR	SUGBO	A340-243	178	010027	Egypt	30/6/1990	
22	MSR	SUGCE	A330-243	600	0100A2	Egypt	4/8/2005	
23	MSR	SUGCF	A330-243	610	0100A3	Egypt	27/7/2005	

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EGYPT

No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
24	MSR	SUGCG	A330-243	666	0100A4	Egypt	5/7/2005	
25	MSR	SUGCI	A330-243	696	0100A6	Egypt	5/6/2005	
26	MSR	SUGCH	A330-243	683	0100A5	Egypt	13/7/2005	
27	MSR	SUGBT	A321-231	680	01002C	Egypt	11/1/2000	
28	MSR	SUGBU	A321-231	687	01002D	Egypt	11/1/2000	
29	MSR	SUGBH	B737-566	576	010018	Egypt	11/1/2000	
30	MSR	SUGBL	B737-566	579	01001C	Egypt	11/1/2000	
31	MSR	SUGBJ	B737-566	577	01001A	Egypt	11/1/2000	
32	MSR	SUGBK	B737-566	578	01001B	Egypt	11/1/2000	
33	MSR	SUGBP	B777-266	28423	010028	Egypt	20/6/1997	
34	MSR	SUGBR	B777-266	28424	010029	Egypt	20/6/1997	
35	MSR	SUGBS	B777-266	28425	01002A	Egypt	20/6/1997	
36	MSR	SUGBX	B777-266	32629	010056	Egypt	10/10/2002	
37	MSR	SUGBY	B777-266	32630	010055	Egypt	25/10/2002	
38	MSR	SUGCJ	A330-243	709	0100A7	Egypt	20/12/2005	
39	MSR	SUGCK	A330-243	726	0100A8	Egypt	3/5/2006	
40	MSR	SUGBW	A321-231	725	01002F	Egypt	20/10/2000	
41	Cairo Aviation	SUEAI	TU-204	64025	01004A	Egypt	12/1/2001	
42	Cairo Aviation	SUEAF	TU-204	64027	010049	Egypt	12/1/2001	
43	Cairo Aviation	SUEAG	TU-204	64028	010048	Egypt	12/1/2001	
44	Cairo Aviation	SUEAJ	TU-204	64029	010059	Egypt	13/6/2002	
45	AMC Airline	SUBOY	MD-83	53191	010069	Egypt	2/1/2003	

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EGYPT

No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
46	AMC Airline	SUBOZ	MD-83	53192	1006A	Egypt	2/1/2003	
47	AMC Airline	SUBPG	B737-800	32669	0100D7	Egypt	13/3/2006	
48	Air Memphis	SUPBD	A320	26	01009C	Egypt	12/1/2003	
49	Air Memphis	SUPBE	A320	24	0100CE	Egypt	26/4/2005	
50	Air Cairo	SUGCL	A320-231	322	01001D	Egypt	12/10/2005	
51	Air Cairo	SUGBV	A321	715	01002E	Egypt	20/10/2000	
52	Luxor Air	SUBME	MD-83	49628	010098	Egypt	8/1/2003	
53	Tri Star	SUBMZ	A300-B4F	129	010060	Egypt	10/1/2001	
54	National Aviation	SUPIX	HS125/700B	257184	0100CC	Egypt	11/1/2003	
55	Artoc Air	SUMGS	LJ45	69	010046	Egypt	20/1/2002	26/11/2006
56	Executive Wings Aviation	SUEWD	C680	680-0026	0100CF	Egypt	16/4/2005	
57	Lotus Air	SULBC	A320-200	937	01003A	Egypt	25/12/2002	
58	Midwest Air	SUMWA	A310	652	01003F	Egypt	17/7/2002	

IRAN								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	CPN	EPCPG	TU154			Iran		
2	CPN	EPCPN	TU154			Iran		
3	CPN	EPCPO	TU154			Iran		
4	CPN	EPCPS	TU154			Iran		
5	IRA	EPIBS	A300			Iran		
6	IRA	EPIBT	A300			Iran		
7	IRA	EPIBV	A300			Iran		
8	IRA	EPIBZ	A300			Iran		
9	IRA	EPIBA	A300-600			Iran		
10	IRA	EPIBB	A300-600			Iran		
11	IRA	EPIBC	A300-600			Iran		
12	IRA	EPIBD	A300-600			Iran		
13	IRA	EPIBK	A310			Iran		
14	IRA	EPIBL	A310			Iran		
15	IRA	EPIBM	A310			Iran		
16	IRA	EPIBN	A310			Iran		
17	IRA	EPIBO	A310			Iran		
18	IRA	EPIBP	A310			Iran		
19	IRA	EPIBQ	A310			Iran		
20	IRA	EPIBX	A310			Iran		
21	IRA	EPIRP	B727			Iran		
22	IRA	EPIRR	B727			Iran		
23	IRA	EPIRS	B727			Iran		
24	IRA	EPIRT	B727			Iran		

IRAN								
<i>No.</i>	<i>Oper.</i>	<i>Reg No</i>	<i>Type</i>	<i>Ser- No</i>	<i>Mode S</i>	<i>State of Reg</i>	<i>Date Approval Issued</i>	<i>Date of Expiry</i>
25	IRA	EPAGA	B737			Iran		
26	IRA	EPIAA	B747			Iran		
27	IRA	EPIAB	B747			Iran		
28	IRA	EPIAD	B747			Iran		
29	IRA	EPIAG	B747			Iran		
30	IRA	EPIAH	B747			Iran		
31	IRA	EPIAM	B747			Iran		
32	IRA	EPCFD	F100			Iran		
33	IRA	EPCFE	F100			Iran		
34	IRA	EPCFH	F100			Iran		
35	IRA	EPCFK	F100			Iran		
36	IRA	EPCFI	F100			Iran		
37	IRA	EPCFJ	F100			Iran		
38	IRA	EPIDA	F100			Iran		
39	IRA	EPIDB	F100			Iran		
40	IRA	EPIDD	F100			Iran		
41	IRA	EPIDF	F100			Iran		
42	IRA	EPIDG	F100			Iran		
43	IRB	EPMBN	TU154			Iran		
44	IRB	EPMBQ	TU154			Iran		
45	IRB	EPMBT	TU154			Iran		
46	IRB	EPMCE	TU154			Iran		
47	IRB	EPMCF	TU154			Iran		

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IRAN								
<i>No.</i>	<i>Oper.</i>	<i>Reg No</i>	<i>Type</i>	<i>Ser- No</i>	<i>Mode S</i>	<i>State of Reg</i>	<i>Date Approval Issued</i>	<i>Date of Expiry</i>
48	IRB	EPMCL	TU154			Iran		
49	IRB	EPMCH	TU154			Iran		
50	IRB	EPMCG	TU154			Iran		
51	IRC	EPASA	B727			Iran		
52	IRC	EPASB	B727			Iran		
53	IRC	EPASC	B727			Iran		
54	IRC	EPASD	B727			Iran		
55	IRC	EPASG	F100			Iran		
56	IRC	EPASH	F100			Iran		
57	IRC	EPASI	F100			Iran		
58	IRC	EPASJ	F100			Iran		
59	IRC	EPASK	F100			Iran		
60	IRC	EPASL	F100			Iran		
61	IRC	EPASO	F100			Iran		
62	IRC	EPASP	F100			Iran		
63	IRC	EPASQ	F100			Iran		
64	IRC	EPASR	F100			Iran		
65	IRC	EPAST	F100			Iran		
66	IRK	EPLBR	TU154			Iran		
67	IRK	EPLBS	TU154			Iran		
68	IRM	EPMHF	A300			Iran		
69	IRM	EPMHG	A300			Iran		
70	IRM	EPMHE	A300			Iran		
71	IRM	EPMHJ	A320			Iran		

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IRAN								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
72	IRM	EPMHK	A320			Iran		
73	IRQ	EPTQI	IL76TD			Iran		
74	IRQ	EPTQJ	IL76TD			Iran		
75	ERAM	EPEKA	TU154			Iran		
76	ERAM	EPEKB	TU154			Iran		

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JORDAN								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	RJA	FODVF	A310-304	445	3A0EA5	France	31/12/2001	
2	RJA	FODVG	A310-304	490	3A0EA6	France	31/12/2001	
3	RJA	JYAGM	A310-304	491	7404ED	Jordan	01/12/2004	
4	RJA	JYAGN	A310-304	531	7404EE	Jordan	02/12/2004	
5	RJA	JYAGK	A310-304	573	7404EB	Jordan	31/12/2001	
6	RJA	JYAGP	A310-304	416	7404F0	Jordan	14/02/2001	
7	RJA	JYAYA	A320-212	87	740721	Jordan	15/03/2002	
8	RJA	JYAYB	A320-212	88	740722	Jordan	03/04/2002	
9	RJA	FOGYC	A320-212	569	3A1B02	Jordan	31/12/2001	
10	RJA	FOHGB	A320-212	289	16416301	France	31/12/2001	
11	RJA	JYAYD	A320-232	2598	740724	Jordan	29/11/2005	
12	RJA	JYAYF	A320-232	2692	740726	Jordan	24/02/2006	
13	RJA	FOHGV	A320-232	2649	3A1CD5	France	25/01/2006	
14	RJA	FOHGC	A320-212	407	16416302	France	31/12/2001	
15	RJA	JYAIA	A340-212	38	740521	Jordan	24/07/2002	
16	RJA	JYAIB	A340-212	43	740522	Jordan	09/08/2002	
17	RJA	FOHLP	A340-212	14	3A1D6F	France	29/05/2003	
18	RJA	FOHLQ	A340-212	22	3A1D70	France	17/07/2003	
19	RJA	FGTAF	A321-211	761	394C05	France	25/06/2004	
20	RJA	FOHGU	A321-211	675	3A1CD4	France	03/06/2005	
21	Jordan Aviation	JYJAH	A310-304	481	742828	Jordan	29/07/2004	
22	Jordan Aviation	JYJAV	A310-222	357	742836	Jordan	1/08/2003	

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JORDAN

<i>No.</i>	<i>Oper.</i>	<i>Reg No</i>	<i>Type</i>	<i>Ser- No</i>	<i>Mode S</i>	<i>State of Reg</i>	<i>Date Approval Issued</i>	<i>Date of Expiry</i>
23	Jordan Aviation	JYJAB	B737-300	23630	742822	Jordan	31/05/2002	
24	Jordan Aviation	JYJAD	B737-322	24662	742824	Jordan	29/07/2005	

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KUWAIT								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	KAC	9KAHI	A300	344	706021	Kuwait		
2	KAC	9KAKA	A320	181	706004	Kuwait		
3	KAC	9KAKB	A320	182	706005	Kuwait		
4	KAC	9KAKC	A320	195	706006	Kuwait		
5	KAC	9KAKD	A320	2046	706024	Kuwait		
6	KAC	9KALA	A310	647	706007	Kuwait		
7	KAC	9KALB	A310	649	706008	Kuwait		
8	KAC	9KALC	A310	663	706009	Kuwait		
9	KAC	9KALD	A310	648	70600A	Kuwait		
10	KAC	9KAMA	A300	673	70600B	Kuwait		
11	KAC	9KAMB	A300	694	70600C	Kuwait		
12	KAC	9KAMC	A300	699	70600D	Kuwait		
13	KAC	9KAMD	A300	719	70600E	Kuwait		
14	KAC	9KAME	A300	721	70600F	Kuwait		
15	KAC	9KANA	A340	89	706013	Kuwait		
16	KAC	9KANB	A340	90	706014	Kuwait		
17	KAC	9KANC	A340	101	706015	Kuwait		
18	KAC	9KAND	A340	104	706016	Kuwait		
19	KAC	9KAOA	B777	28743	706017	Kuwait		
20	KAC	9KAOB	B777	28744	706018	Kuwait		
21	KAC	9KADE	B744	27338	706010	Kuwait		
22	KAC	9KAJD	GV	560	70601E	Kuwait		
23	KAC	9KAJE	GV	569	70601F	Kuwait		
24	KAC	9KAJF	GV	573	706000	Kuwait		

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KUWAIT

No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
25	JZR	9KCAA	A320	2569	706202	Kuwait		
26	JZR	9KCAB	A320	2584	706203	Kuwait		

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LEBANON

No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	GLOBE JET	ODMIR	L1011			Lebanon		
2	GLOBE JET	ODZEE	L1011			Lebanon		
3	Mena Jet	FOKRM	A320			France		
4	MEA	FOMEA	A332			France		
5	MEA	FOMEB	A332			France		
6	MEA	FOMECE	A332			France		
7	MEA	FORME	A321			France		
8	MEA	FORMJ	A321			France		
9	MEA	FORMF	A321			France		
10	MEA	FORMG	A321			France		
11	MEA	FORMI	A321			France		
12	MEA	FORMH	A321			France		

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OMAN								
<i>No.</i>	<i>Oper.</i>	<i>Reg No</i>	<i>Type</i>	<i>Ser- No</i>	<i>Mode S</i>	<i>State of Reg</i>	<i>Date Approval Issued</i>	<i>Date of Expiry</i>
1	GFA	A4OKA	A332		70C039	Oman	20/03/2001	
2	GFA	A4OKB	A332		70C03A	Oman	20/03/2001	
3	GFA	A4OKC	A332		70C03B	Oman	20/03/2001	
4	GFA	A4OKD	A332		70C03C	Oman	20/03/2001	
5	GFA	A4OKE	A332		70C044	Oman	20/03/2001	
6	GFA	A4OKF	A332		70C045	Oman	20/03/2001	
7	GFA	A4OEB	A322		70C00C	Oman	20/03/2001	
8	GFA	A4OED	A322		70C00E	Oman	20/03/2001	
9	GFA	A4OEE	A322		70C012	Oman	20/03/2001	
10	GFA	A4OEG	A322		70C014	Oman	20/03/2001	
11	GFA	A4OEH	A322		70C015	Oman	20/03/2001	
12	GFA	A4OEI	A322		70C021	Oman	20/03/2001	
13	GFA	A4OEJ	A322		70C022	Oman	20/03/2001	
14	GFA	A4OEL	A322		70C024	Oman	20/03/2001	
15	GFA	A4OEN	A322		70C028	Oman	20/03/2001	
16	GFA	A4OEO	A322		70C04E	Oman	29/06/2003	
17	GFA	A4OGI	B763		70C035	Oman	20/03/2001	
18	GFA	A4OGJ	B763		70C036	Oman	20/03/2001	
19	GFA	A4OGK	B763		70C037	Oman	20/03/2001	
20	GFA	A4OGS	B763		70C007	Oman	20/03/2001	
21	GFA	A4OGT	B763		70C00B	Oman	20/03/2001	
22	GFA	A4OGU	B763		70C00F	Oman	20/03/2001	
23	GFA	A4OGV	B763		70C010	Oman	20/03/2001	

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OMAN								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
24	GFA	A4OGY	B763		70C0IE	Oman	20/03/2001	
25	GFA	A4OGZ	B763		70C0IF	Oman	20/03/2001	
26	GFA	A4OLB	A343		70C017	Oman	20/03/2001	
27	GFA	A4OLC	A343		70C018	Oman	20/03/2001	
28	GFA	A4OLD	A343		70C019	Oman	20/03/2001	
29	GFA	A4OLE	A343		70C0IA	Oman	20/03/2001	
30	GFA	A4OLF	A343		70C0IB	Oman	20/03/2001	
31	GFA	A4OLG	A343		70C04F	Oman	06/09/2003	
32	GFA	A4OLH	A343		70C050	Oman	26/10/2003	
33	GFA	A4OLI	A343		70C051	Oman	17/11/2003	
34	GFA	A4OLJ	A343		70C052	Oman	22/03/2004	
35	X	A4OSO	B74S		70C020	Oman	27/01/1998	
36	X	A4OAB	GLF4		70C009	Oman	21/02/1998	
37	X	A4OAC	GLF4		70C00A	Oman	22/09/1998	
38	X	A4OOMN	B744		70C04D	Oman	29/04/2004	
39	X	A4OAA	A322		70C057	Oman	16/12/2005	
40	OMA	A4OBN	B738		70C046	Oman	16/11/2003	
41	OMA	A4OBS	B737		70C047	Oman	16/11/2003	
42	OMA	A4OBT	B737		70C048	Oman	16/11/2003	
43	OMA	A4OBO	B737		70C049	Oman	16/11/2003	
44	OMA	A4OBR	B738		70C04A	Oman	16/11/2003	
45	OMA	A4OBJ	B738		70C054	Oman	28/03/2005	

QATAR								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	QTR	A7-ACA	A330-202		06A018	Qatar		
2	QTR	A7-ACB	A330-202		06A019	Qatar		
3	QTR	A7-ACC	A330-202		06A01E	Qatar		
4	QTR	A7-ACD	A330-202		06A01F	Qatar		
5	QTR	A7-ACE	A330-202		06A024	Qatar		
6	QTR	A7-ACF	A330-202		06A030	Qatar		
7	QTR	A7-ACH	A330-202		06A024	Qatar		
8	QTR	A7-AFL	A330-202		06A035	Qatar		
9	QTR	A7-AFM	A330-202		06A036	Qatar		
10	QTR	A7-AFN	A330-202		06A033	Qatar		
11	QTR	A7-AFO	A330-202		06A034	Qatar		
12	QTR	A7-AFP	A330-202		06A03F	Qatar		
13	QTR	A7-AEA	A330-302		06A031	Qatar		
14	QTR	A7-AEB	A330-302		06A032	Qatar		
15	QTR	A7-AEC	A330-302		06A03C	Qatar		
16	QTR	A7-AED	A330-302		06A03D	Qatar		
17	QTR	A7-ABN	A300-622R		06A007	Qatar		
18	QTR	A7-ABO	A300-622R		06A008	Qatar		
19	QTR	A7-ABV	A300-622R		06A010	Qatar		
20	QTR	A7-ABW	A300-622R		06A011	Qatar		
21	QTR	A7-ABX	A300-622R		06A012	Qatar		
22	QTR	A7-ABY	A300-622R		06A013	Qatar		
23	QTR	A7-AFA	A300-622R		06A01A	Qatar		

QATAR								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
24	QTR	A7-AFB	A300-622R		06A01D	Qatar		
25	QTR	A7-AFC	A300-622R		06A020	Qatar		
26	QTR	A7-AFD	A300-622R		06A025	Qatar		
27	QTR	A7-ABR	A320-232		06A00B	Qatar		
28	QTR	A7-ADA	A320-232		06A016	Qatar		
29	QTR	A7-ADB	A320-232		06A017	Qatar		
30	QTR	A7-ADC	A320-232		06A01B	Qatar		
31	QTR	A7-ADD	A320-232		06A022	Qatar		
32	QTR	A7-ADE	A320-232		06A023	Qatar		
33	QTR	A7-ADF	A320-232		06A027	Qatar		
34	QTR	A7-ADG	A320-232		06A028	Qatar		
35	QTR	A7-ADH	A320-232		06A029	Qatar		
36	QTR	A7-ADI	A320-232		06A02D	Qatar		
37	QTR	A7-ADJ	A320-232		06A02E	Qatar		
38	QTR	A7-ADS	A321-231		06A02B	Qatar		
39	QTR	A7-ADT	A321-231		06A02F	Qatar		
40	QTR	A7-CJA	A319-133		06A026	Qatar		
41	QTR	A7-CJB	A319-133		06A039	Qatar		
42	Qatar Amiri Flight	A7-AAM	BD-700-1A10		06A037	Qatar		
43	Qatar Amiri Flight	A7-AHHK	A340-211		06A001	Qatar		
44	Qatar Amiri Flight	A7-AAF	A310-304		06A00A	Qatar		
45	Qatar Amiri Flight	A7-AAG	A320-232		06A00F	Qatar		
46	Qatar Amiri Flight	A7-AAN	BD-100-1A10		06A03A	Qatar		

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SAUDI ARABIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	RSAF	HZ101	B737-8DP	32451	710389	Saudi	16/5/2004	15/5/2009
2	RSAF	HZ102	B737-8DP	32805	7101E1	Saudi	16/5/2004	15/5/2009
3	RSAF	HZ103	G4	1037	71010A	Saudi	20/9/2003	19/9/2008
4	RSAF	HZ105	HS-125-800B	258118	71038A	Saudi	23/9/2003	22/9/2008
5	National Air Services	HZMF3	G4	1520	7101E7	Saudi	9/10/2004	8/10/2007
6	National Air Services	HZMF4	G4	1525	7101E9	Saudi	27/11/2004	26/11/2009
7	RSAF	HZ109	BAe125-800B	258146	71038C	Saudi	22/7/2001	19/9/2009
8	RSAF	HZ110	HS-125-800B	258148	71038D	Saudi	22/7/2001	19/9/2009
9	Rssa	HZ124	A340-200	4	71010B	Saudi	19/2/1997	24/12/2009
10	RSAF	HZ130	BAe125-800B	258164	71038E	Saudi	31/12/2002	30/12/2007
11	AL-Anwa Est.	HZAB1	L1011-385-3	1247	7101D8	Saudi	25/9/2001	20/9/2008
12	AL-Anwa Est.	HZAB3	B727-200	22362	7101BA	Saudi	23/5/2001	21/5/2008
13	Tuwaig Int'l co.Ltd	HZAFA	BD700-IAIO	9029	7101C0	Saudi	6/10/2001	13/1/2004
14	Saudi Royal Flight	HZAFA1	MD11	48533	71032F	Saudi	23/05/2001	06/02/2008
15	Tuwaig Int'l co.Ltd	HZAFA2	CL-600-2B16	5320	7101CD	Saudi	8/6/2000	13/1/2004
16	Special Flight Service	HZAFH	GLF2	171	7101DE	Saudi	30/3/2003	30/3/2008
17	Special Flight Service	HZAFI	GLF2	201	7101D9	Saudi	5/1/2002	14/12/2008
18	Special Flight Service	HZAFJ	GLF2	203	7101DB	Saudi	4/8/2002	3/8/2007
19	Special Flight Service	HZAFK	GLF2	239	7101C9	Saudi	13//2001	8/1/2010
20	Special Flight Service	HZAFN	GLF3	364	7101C8	Saudi	13/5/2001	8/1/2010
21	Special Flight Service	HZAFR	GLF3	410	7101CC	Saudi	8/7/2001	7/7/2008
22	Special Flight Service	HZAFT	Falcon 900B	21	7101C7	Saudi	13/5/2001	12/4/2008
23	Special Flight Service	HZAFU	GLF4	1031	7101D1	Saudi	13/5/2001	15/6/2008

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SAUDI ARABIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
24	Special Flight Service	HZAFV	GLF4	1035	7101CD	Saudi	12/5/2001	1/10/2009
25	Special Flight Service	HZAFW	GLF4	1038	7101D5	Saudi	21/4/2001	7/9/2008
26	Special Flight Service	HZAFX	GLF4	1143	7101D2	Saudi	13/5/2001	13/4/2008
27	Special Flight Service	HZAFY	GLF4	1166	7103EB	Saudi	7/7/2001	15/6/2008
28	Special Flight Service	HZAFZ	F900B	61	7101CE	Saudi	13/5/2001	12/4/2008
29	SVA	HZAIA	B741	22498	710001	Saudi	23/5/1998	No Expiry
30	SVA	HZAIB	B741	22499	710002	Saudi	23/5/1998	No Expiry
31	SVA	HZAIC	B741	22500	710003	Saudi	23/5/1998	No Expiry
32	SVA	HZAID	B741	22501	710004	Saudi	23/5/1998	No Expiry
33	SVA	HZAIE	B741	22502	710005	Saudi	23/5/1998	No Expiry
34	SVA	HZAIF	B74S	22503	710006	Saudi	23/5/1998	No Expiry
35	SVA	HZAIG	B741	22747	710007	Saudi	23/5/1998	No Expiry
36	SVA	HZAIL	B741	22749	710009	Saudi	23/5/1998	No Expiry
37	Saudi Royal Flight	HZAIJ	B74S-68	22750	710323	Saudi	10/12/2003	9/12/2008
38	SVA	HZAIK	B743	23262	71000A	Saudi	23/5/1998	No Expiry
39	SVA	HZAIL	B743	23263	71000B	Saudi	23/5/1998	No Expiry
40	SVA	HZAIM	B743	23264	71000C	Saudi	23/5/1998	No Expiry
41	SVA	HZAIN	B743	23265	71000D	Saudi	23/5/1998	No Expiry
42	SVA	HZAIO	B743	23266	71000E	Saudi	23/5/1998	No Expiry
43	SVA	HZAIP	B743	23267	71000F	Saudi	23/5/1998	No Expiry
44	SVA	HZAIQ	B743	23268	710010	Saudi	23/5/1998	No Expiry
45	SVA	HZAIR	B743	23269	710011	Saudi	23/5/1998	No Expiry
46	SVA	HZAIS	B743	23270	710012	Saudi	23/5/1998	No Expiry

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SAUDI ARABIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
47	SVA	HZAIT	B743	23271	710013	Saudi	23/5/1998	No Expiry
48	SVA	HZAIU	B742	24359	710014	Saudi	23/5/1998	No Expiry
49	SVA	HZAIV	B744	28339	710015	Saudi	15/6/1998	No Expiry
50	SVA	HZAIW	B744	28340	710016	Saudi	15/6/1998	No Expiry
51	SVA	HZAIX	B744	28341	710017	Saudi	15/6/1998	No Expiry
52	SVA	HZAIY	B744	28342	710018	Saudi	15/6/1998	No Expiry
53	SVA	HZAIZ	B744	28343	710019	Saudi	15/6/1998	No Expiry
54	SVA	HZAJA	A300-620	284	710065	Saudi	6/2/2001	No Expiry
55	SVA	HZAJB	A300-620	294	71006	Saudi	6/2/2001	No Expiry
56	SVA	HZAJC	A300-620	301	710067	Saudi	6/2/2001	No Expiry
57	SVA	HZAJD	A300-620	307	710068	Saudi	6/2/2001	No Expiry
58	SVA	HZAJE	A300-620	312	710069	Saudi	6/2/2001	No Expiry
59	SVA	HZAJF	A300-620	317	71006A	Saudi	6/2/2001	No Expiry
60	SVA	HZAJG	A300-620	321	71006B	Saudi	6/2/2001	No Expiry
61	SVA	HZAJH	A300-620	336	71006C	Saudi	6/2/2001	No Expiry
62	SVA	HZAJI	A300-620	341	71006D	Saudi	6/2/2001	No Expiry
63	SVA	HZAJJ	A300-620	348	71006E	Saudi	6/2/2001	No Expiry
64	SVA	HZAJK	A300-620	351	71006F	Saudi	6/2/2001	No Expiry
65	SVA	HZAKA	B772	28344	710033	Saudi	15/6/1998	No Expiry
66	SVA	HZAKB	B772	28345	710034	Saudi	15/6/1998	No Expiry
67	SVA	HZAKC	B772	28346	710035	Saudi	15/6/1998	No Expiry
68	SVA	HZAKD	B772	28347	710036	Saudi	15/6/1998	No Expiry
69	SVA	HZAKE	B772	28348	710037	Saudi	15/6/1998	No Expiry

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SAUDI ARABIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
70	SVA	HZAKF	B772	28349	710038	Saudi	15/6/1998	No Expiry
71	SVA	HZAKG	B772	28350	710039	Saudi	15/6/1998	No Expiry
72	SVA	HZAKH	B772	28351	71003A	Saudi	15/6/1998	No Expiry
73	SVA	HZAKI	B772	28352	71003B	Saudi	15/6/1998	No Expiry
74	SVA	HZAKJ	B772	28353	71003C	Saudi	15/6/1998	No Expiry
75	SVA	HZAKK	B772	28354	71003D	Saudi	15/6/1998	No Expiry
76	SVA	HZAKL	B772	28355	71003E	Saudi	15/6/1998	No Expiry
77	SVA	HZAKM	B772	28356	71003F	Saudi	15/6/1998	No Expiry
78	SVA	HZAKN	B772	28357	710040	Saudi	15/6/1998	No Expiry
79	SVA	HZAKO	B772	28358	710041	Saudi	15/6/1998	No Expiry
80	SVA	HZAKP	B772	28359	710042	Saudi	15/6/1998	No Expiry
81	SVA	HZAKQ	B772	28360	710043	Saudi	15/6/1998	No Expiry
82	SVA	HZAKR	B772	28361	710044	Saudi	15/6/1998	No Expiry
83	SVA	HZAKS	B772	28362	710045	Saudi	15/6/1998	No Expiry
84	SVA	HZAKT	B772	28363	710046	Saudi	15/6/1998	No Expiry
85	SVA	HZAKU	B772	28364	710047	Saudi	15/6/1998	No Expiry
86	SVA	HZAKV	B772	28365	710048	Saudi	15/6/1998	No Expiry
87	SVA	HZAKW	B772	28366	710049	Saudi	15/6/1998	No Expiry
88	SVA	HZANA	MD11	48773	710191	Saudi	15/6/1998	No Expiry
89	SVA	HZANB	MD11	48775	710192	Saudi	15/6/1998	No Expiry
90	SVA	HZANC	MD11	48776	710193	Saudi	15/6/1998	No Expiry
91	SVA	HZAND	MD11	48777	710194	Saudi	15/6/1998	No Expiry
92	SVA	HZAP3	MD90	53518	7100E4	Saudi	15/6/1998	No Expiry

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SAUDI ARABIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
93	SVA	HZAP4	MD90	53519	7100E5	Saudi	15/6/1998	No Expiry
94	SVA	HZAP7	MD90	53517	7100E3	Saudi	15/6/1998	No Expiry
95	SVA	HZAPA	MD90	53491	7100C9	Saudi	15/6/1998	No Expiry
96	SVA	HZAPB	MD90	53492	7100CA	Saudi	15/6/1998	No Expiry
97	SVA	HZAPC	MD90	53493	7100CB	Saudi	15/6/1998	No Expiry
98	SVA	HZAPD	MD90	53494	7100CC	Saudi	15/6/1998	No Expiry
99	SVA	HZAPE	MD90	53495	7100CD	Saudi	15/6/1998	No Expiry
100	SVA	HZAPF	MD90	53496	7100CE	Saudi	15/6/1998	No Expiry
101	SVA	HZAPG	MD90	53497	7100CF	Saudi	15/6/1998	No Expiry
102	SVA	HZAPH	MD90	53498	7100D0	Saudi	15/6/1998	No Expiry
103	SVA	HZAPI	MD90	53499	7100D1	Saudi	15/6/1998	No Expiry
104	SVA	HZAPJ	MD90	53500	7100D2	Saudi	15/6/1998	No Expiry
105	SVA	HZAPK	MD90	53501	7100D3	Saudi	15/6/1998	No Expiry
106	SVA	HZAPL	MD90	53502	7100D4	Saudi	15/6/1998	No Expiry
107	SVA	HZAPM	MD90	53503	7100D5	Saudi	15/6/1998	No Expiry
108	SVA	HZAPN	MD90	53504	7100D6	Saudi	15/6/1998	No Expiry
109	SVA	HZAPO	MD90	53505	7100D7	Saudi	15/6/1998	No Expiry
110	SVA	HZAPP	MD90	53506	7100D8	Saudi	15/6/1998	No Expiry
111	SVA	HZAPQ	MD90	53507	7100D9	Saudi	15/6/1998	No Expiry
112	SVA	HZAPR	MD90	53508	7100DA	Saudi	15/6/1998	No Expiry
113	SVA	HZAPS	MD90	53509	7100DB	Saudi	15/6/1998	No Expiry
114	SVA	HZAPT	MD90	53510	7100DC	Saudi	15/6/1998	No Expiry
115	SVA	HZAPU	MD90	53511	7100DD	Saudi	15/6/1998	No Expiry

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SAUDI ARABIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
116	SVA	HZAPV	MD90	53512	7100DE	Saudi	15/6/1998	No Expiry
117	SVA	HZAPW	MD90	53513	7100DF	Saudi	15/6/1998	No Expiry
118	SVA	HZAPX	MD90	53514	7100E0	Saudi	15/6/1998	No Expiry
119	SVA	HZAPY	MD90	53515	7100E1	Saudi	15/6/1998	No Expiry
120	SVA	HZAPZ	MD90	53516	7100E2	Saudi	15/6/1998	No Expiry
121	SVA	HZAEA	ERJ 170-100 LR	17000108	710097	Saudi	15/12/2005	No Expiry
122	SVA	HZAEB	ERJ 170-100 LR	17000114	710098	Saudi	15/12/2005	No Expiry
123	SVA	HZAEC	ERJ 170-100 LR	17000118	710099	Saudi	15/12/2005	No Expiry
124	SVA	HZAED	ERJ 170-100 LR	17000119	71009A	Saudi	15/12/2005	No Expiry
125	SVA	HZAEF	ERJ 170-100 LR	17000121	71009B	Saudi	15/12/2005	No Expiry
126	SVA	HZAEF	ERJ 170-100 LR	17000123	71009C	Saudi	15/12/2005	No Expiry
127	Al-Mawarid Trading Co.	HZARK	G5-SP	5074	7101F2	Saudi	10/12/2005	9/12/2007
128	Salem Aviation	HZBL2	BAe125-800A	258126	7101C2	Saudi	17/9/2002	25/12/2009
129	Fahad Yousef Zahid	HZFYZ	C560XL	560-5022	7013BF	Saudi	27/2/2001	2/3/2008
130	Harth Trading	HZHA1	G2	216	7103F0	Saudi	23/12/2002	22/12/2007
131	Saudi Royal Flight	HZHM1A	B743	23070	710321	Saudi	1/9/2002	31/8/2007
132	Saudi Royal Flight	HZHM1B	B74S-68	21652	710332	Saudi	1/9/2002	31/8/2007
133	Saudi Royal Flight	HZHM5	L1011-385-3	193G-1249	710327	Saudi	29/5/2001	15/6/2008
134	Saudi Royal Flight	HZHM6	L1011-385-3	2934-1249	71032D	Saudi	30/5/2001	31/10/2008
135	Saudi Royal Flight	HZHM7	MD11	48532	71032E	Saudi	22/7/2001	28/10/2008
136	Saudi Royal Flight	HZHMED	B757-23A	25495	71032C	Saudi	1/9/2001	31/8/2007
137	Saud Oger Ltd.	HZHR2	G3	346	7103F1	Saudi	29/1/2000	20/2/2009
138	Saud Oger Ltd.	HZHR3	B727-2Y4	22968	7101B2	Saudi	19/5/1998	19/5/2007

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SAUDI ARABIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
139	Mawrid Holding Co.	HZKAA	G4	1294	7103EC	Saudi		2/6/2007
140	National Air Services	HZKSDC	Falcon2000	142	7101d3	Saudi	20/2/2001	No Expiry
141	National Air Services	HZKSRC	BAe 800XP	258481	7103FE	Saudi	20/2/2001	No Expiry
142	National Air Services	HZMF1	B737-7FG	33405	7101E2	Saudi	30/9/2002	30/9/2007
143	National Air Services	HZMF2	B737-700	33499	7101E3	Saudi	28/12/2002	27/12/2007
144	Special Flight Service	HZMFL	GLF4	1128	7100E9	Saudi	8/7/2001	15/6/2008
145	Sheik Mustafa Idrees	HZMIS	B737-2K5	22600	7103FA	Saudi	23/4/2001	2/4/2008
146	Medical Evacuation	HZMS4	G4	1365	7103F2	Saudi	6/5/2000	31/3/2008
147	Medical Evacuation	HZMS5	G5	583	7103F5	Saudi	25/4/2001	31/3/2008
148	Medical Evacuation	HZMS5A	G5	644	7101E0	Saudi	21/7/2002	20/7/2007
149	Al-Atheer Est.	HZNSA	A310-304	431	7101E6	Saudi	26/8/2003	28/12/2009
150	Al-Atheer Est.	HZOCV	B727-21	19006	7101C1	Saudi	20/7/2002	19/7/2007
151	Olayan Finance Co.	HZOFC4	Falcon 900	31	7103F6	Saudi	15/1/2000	10/1/2009
152	Special Flight Service	HZRC3	G3	331	7101DA	Saudi	16/1/2002	17/3/2007
153	Sabic Basic Industries	HZSAB2	Falcon 900	90.113	7101B7	Saudi	7/7/2000	31/1/2009
154	Joannou&Paraskevaides	HZSJP3	CL604	60.5346	7101C3	Saudi	9/6/1998	23/9/2007
155	HRH Talal Bin A. Aziz	HZTAA	B737-7P3	29188	7103EE	Saudi	18/7/2000	31/1/2009
156	Kingdom Holding Co.	HZWBT4	A340-213	151	7103F9	Saudi	23/4/2002	22/4/2007
157	Kingdom Holding Co.	HZWBT5	HS-125-800A	258032	7101E4	Saudi	14/2/2004	13/1/2009
158	Kingdom Holding Co.	HZWBT6	B767-3P6	27255	7103ED	Saudi	27/6/2002	19/6/2007
159	Kingdom Holding Co.	HZWBT7	B747-400	25880	7101F1	Saudi	23/7/2005	22/1/2010
160	Al-Tameer Co. Ltd	HZSKI	B727-212	2146	7101F3	Saudi	8/2/2006	7/2/2009

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SYRIA								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	SYR	YKAKD	A320			Syria	03/03/2001	
2	SYR	YKAKE	A320			Syria	03/03/2001	16/02/2006
3	SYR	YKAGD	B727-296			Syria	13/4/2002	
4	SYR	YKAHB	B74S			Syria	15/5/2003	15/07/2007
5	SYR	YKAGC	B727-200			Syria	08/09/2004	09/01/2006
6	SYR	YKAKA	A320			Syria	13/04/2005	15/4/2006
7	SYR	YKAKF	A320			Syria	14/04/2005	25/04/2007
8	SYR	YKAHA	B74S			Syria	06/01/2005	25/01/2006
9	SYR	YKAKC	A320			Syria	17/08/2005	21/09/2007
10	SYR	YKAGB	B727-200			Syria	09/06/2005	09/02/2006
11	SYR	YKAKB	A320			Syria	26/09/2005	15/10/2006

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YEMEN								
No.	Oper.	Reg No	Type	Ser- No	Mode S	State of Reg	Date Approval Issued	Date of Expiry
1	IYE	7OADL	B737-800	30645	42200007	Yemen	6/7/2002	
2	IYE	7OADM	B737-800	28252	42200010	Yemen	6/7/2002	
3	IYE	7OADN	B737-800	30661	42200011	Yemen	6/7/2002	
4	IYE	7OADJ	A310-300	535	42200003	Yemen	31/3/2001	
5	IYE	FOGYO	A310-300	568	42200006	France	30/3/2001	
6	IYE	FOHPS	A310-300	704	42200004	France	31/3/2001	
7	IYE	FOHPR	A310-300	702	42200005	France	31/3/2001	
8	IYE	7OADP	A330-200	625	42200012	Yemen	19/10/2005	
9	IYE	7OADT	A330-200	632	42200013	Yemen	19/10/2005	
10	Presidential flight	7OYMN	B747-SP-27	21786	42200001	Yemen	31/3/2001	
11	Sun rise	7OADC	BAE HS-125	258037	42200014	Yemen		

MID RVSM TF/12
 Appendix 3B to the Report on Agenda Item 3

LIST OF MID STATES' RVSM PROGRAMME MANAGERS

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<p><u>IRAQ:</u></p>	
<p><u>ISRAEL:</u></p>	
<p><u>JORDAN:</u></p> <p>Mr. Majed Yousef Aqeel</p>	<p>Director of Air Traffic Management Civil Aviation Authority P.O. Box 7547 Amman – JORDAN Fax: (962-6) 4891266 E-Mail: majedageel@yahoo.com</p>
<p><u>KUWAIT:</u></p> <p>Eng. Fozan M. Al-Fozan</p>	<p>Deputy Director General of Civil Aviation for Navigational Equipment Affairs P.O. Box 17 Safat, 13001 STATE OF KUWAIT Fax: (965) 431 9232 Tel: (965) 476 0421 E-Mail: cvnedd@qualitynet.net</p>
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<p><u>PAKISTAN:</u></p> <p>Mr. Zahid. H. Khan</p>	<p>General Manager (ATS) OPS Directorate HQs Civil Aviation Authority Jinnah International Airport (JIAP) Karachi – PAKISTAN Fax: (9221) 9248758 Tel: (9221) 9248756 E.Mail: gmats@cyber.net.pk</p>
<p><u>SAUDI ARABIA:</u></p> <p>Mr. Aon Abdullah Al-Garni</p>	<p>ATS Planning Specialist ATC Training Instructor ATS Department Presidency of Civil Aviation P.O. Box 40217 Jeddah 21499 – SAUDI ARABIA Fax: (966-2) 640 1477 Tel: (966-2) 640 5000 – Ext. 5577 E-Mail: aonabdul@yahoo.com</p>
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STATE & NAME	TITLE/CONTACT DETAILS
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<p><u>YEMEN:</u></p> <p>Mr. Mohamed S. Al-Gamrah</p>	<p>CNS/ATM Committee P.O. Box 10820 Sanaá – Rep of Yemen Fax: 344048 Tel: 344 675 Mobile: 71 272 556/73715576 E-mail: SAN1ANS@hotmail.com</p>

MID RVSM TF/12
Report on Agenda Item 4

REPORT ON AGENDA ITEM 4: ATC OPERATIONS ASPECTS**MID ATS Route network**

4.1 The meeting recalled that MIDANPIRG/9 noted that, due to urgent operational requirements, in particular, the implementation/post implementation of RVSM, States had to take proactive measures for the realignment, implementation and review of some strategic ATS routes in the MID Region with a view to ensure continued adherence to the operational concept forming the basis for MID RVSM implementation and that the established target level of safety (TLS) is not infringed.

4.2 The meeting noted that a major review of the ATS route network has also been carried out within Baghdad FIR. This enabled the creation of a parallel unidirectional trunk route within Baghdad FIR for the channelling of long-haul flights to/from Asia and Europe.

4.3 In view of the above, a proposal for amendment of the MID Basic Air Navigation Plan - Serial No. MID 05/01 ATS dated 17 February 2005, has been initiated by the Secretariat including all the changes which have already been carried out by States and other operational requirements identified within the framework of the Seventh meeting of the ATM/SAR/AIS Sub-Group. The proposal for amendment was approved by the President of the Council on 5 June 2005.

4.4 After the approval of the Amendment proposal MID 05/01-ATS, it was noted with concern that some of the route designators which are included in both the APAC and MID Basic ANPs are not compliant with Annex 11 provisions i.e. G/UG787E, G/UG787W and UP318N. Accordingly, coordination was carried out between both the ICAO MID Regional Offices in Cairo and Bangkok resulting in Oman, Pakistan and India actioning the alleviation of this deficiency and, the designators G/UG787E, G/UG787W were replaced by G/UG216 and A/UA454 respectively. This was reflected in Oman NOTAMs A0130/06 and A0131/06 effective 11 May 2006. Pakistan has also issued NOTAM A0740/05 to replace the ATS route designator UP318N by UP518. The meeting noted that these changes would be reflected in the next proposal for amendment of the MID Basic ANP.

4.5 The ATS route network for the MID Region, as indicated in the MID Basic ANP has been revised to reflect the requirements of the Region. In this regard, initiatives/actions have been taken by States in consultation with the users and ICAO with a view to improve safety and efficiency of air navigation in the Region.

4.6 The meeting noted that the route designator L/UL317 was assigned for a new route between Sulaymaniyah and Tehran and that some existing ATS routes/route segments in the interface area between Egypt and Greece have been re-designated with the objective to adapt the route designators in accordance with the major traffic flows and to rationalize flight planning by the aircraft operators. The route A791 between Egypt and Saudi Arabia has been changed from unidirectional to a bidirectional route. Other ATS route segments have been implemented/re-designated between Kabul and Lahore FIRs, in particular G796 from KABUL to LAJAK via JALALABAD was extended to HANGU.

4.7 The meeting was apprised of the outcome of the ATS route coordination meeting held in Damascus, 1-2 February 2006 with a view to implement/activate a number of ATS Routes between Iraq, Syria and Turkey and to strengthen the coordination procedures in the field of ATM between the mentioned States. For harmonization purpose and with a view to simplify flight planning and chart presentation, the meeting agreed to change the designator of the route segments ELEXI-DEIR ZZOR-ALEPPO-NISAP from UB402 to UM861, which is used for the continuation of this route in Ankara FIR. The lower ATS route B402 was proposed for deletion from the MID Basic ANP since this route is used for domestic flights only within Damascus FIR with the Designator W4.

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Report on Agenda Item 4

4.8 Based on the above, the meeting agreed to include these requirements in the MID Basic ANP as reflected at **Appendix 4A** to the report on Agenda Item 4 bearing in mind that the final amendment to the MID route network is to be carried out within the framework of the ATM/SAR/AIS Sub-Group. The Secretariat will ensure that the additional route requirements are included in the MID Basic ANP in accordance with established procedures. However, it was emphasized that any modification to the ATS route network has to be brought to the attention of the MID RMA since this could have an impact on the safety assessment. Moreover, any modification to the ATS route network necessitating the amendment of the MID Basic ANP has to be carried out in accordance with established procedures.

4.9 The meeting then recalled that during the ATS route coordination meeting held in Damascus, 1-2 February 2006, the letter of agreement (LOA) between Baghdad and Damascus ACCs has been signed and it was agreed to reactivate the route UP975 (Eastbound) effective 11 May 2006. In this regard, the problem of VHF coverage in the North East area of Damascus FIR and North West area of Baghdad FIR as well as the non-availability of reliable ATS direct speech communications between Damascus and Baghdad ACCs were raised. The Syrian and Iraqi delegations ensured that by 11 May 2006, all the existing communication problems/deficiencies would be alleviated. The meeting noted that this deadline was not met due to the non-availability of reliable communications means mainly from the Iraqi side. The meeting further noted that Iraq had signed the LOA with Turkey in May 2006.

4.10 The meeting was apprised of some of the difficulties that Iraq is facing. This included both the maintenance of VSAT stations and the stand up of the Baghdad ACC. Sustained efforts are being made to expedite the communications matter and it was highlighted that five (5) VSAT stations have been installed since 2003. The problem of maintenance of the VSAT installed in Kuwait was highlighted. It was clarified that according to the protocol signed between Iraq and Kuwait, the maintenance of the VSAT is the responsibility of Iraq. Problems are continuously encountered with maintenance schedules and Iraqi personnel gaining access to Kuwait. Kuwait stated that it is committed to assist the Iraqi maintenance team and offered to help facilitate their entry to Kuwait and access to the VSAT station. The meeting noted also that communication problems between Baghdad and Amman ACCs are jeopardizing the safety of air navigation. Moreover, a number of flights which are crossing three (3) main routes with Amman FIR are not complying with the flight levels assigned to them as agreed between the two ACCs. In this regard, the meeting was informed that Jordan had received by email from Iraq an updated draft LOA and that that comments were forwarded back to Iraq. The LOA between Jordan and Iraq is not yet signed. The meeting was of view that these issues should be addressed by bilateral meetings between both Jordan and Iraq.

4.11 IATA offered to assist Iraq and the adjacent States in the improvement of the ground-ground communications by installing the required VSAT stations providing that the cost be recovered through an agreed funding mechanism.

4.12 Accordingly, the meeting urged Iraq to establish reliable ATS direct speech communication with Damascus ACC and other neighbouring States/ACCs and invited States to coordinate among themselves matters related to mutual interest.

4.13 The meeting recalled that the First Special Coordination meeting - Baghdad FIR was held in Amman from 12 to 13 January 2004 and the Second Special Coordination meeting was held in Kuwait from 13 to 14 April 2004. The meeting was of view that another coordination meeting should be organized under the aegis of ICAO, as soon as possible, with a view to address the above-mentioned issues and other pressing matters. Accordingly, the meeting developed the following Draft Conclusion:

DRAFT CONCLUSION 12/2: SPECIAL BAGHDAD FIR COORDINATION MEETING

That, with a view to address coordination issues between Iraq and its adjacent States, a Special Baghdad FIR Coordination Meeting be organized under the aegis of ICAO with the attendance of Iraq, Iran, Jordan, Kuwait, Saudi Arabia, Syria, Turkey, IATA, IFALPA, FAA, the Combined Forces Air Component Commander (CFACC) and the MID RMA.

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Report on Agenda Item 4

4.14 The meeting recalled that MIDANPIRG/9 noted the concern of the airspace users regarding delays in the processing/transmission of flight plans (FPLs) and highlighted that there is an urgent need to ensure that flight plans are properly filed and transmitted over the AFTN. The meeting recognized that most of the time the problem is due to human factors i.e. the AFTN addressees are not properly typed or are typed with errors at the level of manual processing systems, resulting in rejection of the flight plan by automated switching systems.

4.15 The meeting noted also that one of the causes is pertaining to the incapability of a number of Flight Data Processing Systems (FDPS) to accept/process more than 7 to 8 characters in item 10 of the flight plan. This leads to truncate letter "W" related to RVSM status. Accordingly, the concerned flights are treated as non-RVSM approved flights and aircraft are instructed to descent below RVSM flight levels.

4.16 The meeting recalled and reiterated all MIDANPIRG Conclusions relative to the problem of proper handling/processing of FPLs. It noted that as a follow-up to MIDANPIRG/9 Conclusion 9/17 and in line with the agreed methodology, the ICAO MID Regional Office carried out the required survey and letter Ref.: F.ME 386 dated 10 November 2005 was sent to concerned States (Bahrain, Egypt, Jordan, Saudi Arabia, Sudan, UAE and also Nigeria through the ICAO WACAF Office) with a copy to IATA.

4.17 The meeting noted that Egypt provided the statistics related to the traffic of one day (09/12/2005) as shown at **Appendix 4B** to the report on Agenda Item 4, which is not illustrative. However, it showed that 13 occurrences of non-receipt of FPL had been noted.

4.18 It was also noted with appreciation that UAE carried out a survey in 2005 related to the flights which were denied access to the RVSM designated airspace in the Emirates FIR. In this regard, in accordance with UAE AIP ENR 1.10.2 and UAE AIC 04/03, the Emirates ACC when receiving an estimate for a flight without FPL or with a FPL not indicating "W" in item 10 and intending to use RVSM flight levels, instructs the upstream ACC to transfer the aircraft below RVSM airspace. Such events are subsequently handled as follows:

- a log entry is made;
- the incident is investigated and the log is annotated with reasons, if available;
- a fax is sent to the Civil Aviation Authority at the point of departure of the flight, requesting for investigation of the problem;
- the UAE log is updated based on the received reply; and
- each originating State is informed of UAE findings with copy to the ICAO MID Regional Office in order to facilitate follow-up action.

4.19 Starting from April 2005, UAE carried out an analysis/investigation of individual cases per FIR. The results of this investigation are presented at **Appendix 4C** to the report on Agenda Item 4.

4.20 Noting that the problem of non-receipt of flight plans is still not solved, that Jeddah ACC is daily faced to handle flights entering/overflying Jeddah FIR whose FPL are not received and that this problem is partially linked to the use of Repetitive Flight Plans (RPLs), Saudi Arabia issued NOTAMs A0215/06 and A0216/06 as at **Appendix 4D** to the report on Agenda Item 4. Accordingly, the use of RPLs is no longer considered for inbound flights or flights overflying Jeddah FIR and flights without FPL entering Jeddah FIR are subject to be held at the boundary or denied access to Saudi Airspace until FPL is received. **Appendix 4E** to the report on Agenda Item 4 presents the statistics related to missing FPLs at Dammam-King Fahd Intl Airport during the period 1-15 April 2006.

4.21 IATA also reacted to the survey and suggested that it should be extended to involve European States since it has been noted that many missing FPLs in the MID Region were related to aircraft departing from Europe.

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Report on Agenda Item 4

4.22 Regarding the Establishment of an Integrated Initial FPL Processing System (IFPS) and as a follow-up to MIDANPIRG Conclusion 9/18, and based on the information provided by Bahrain, the meeting noted that the feasibility study is under development and it is expected that it will be presented to the next CNS/MET SG meeting, tentatively scheduled to be held in Cairo, 31 October – 2 November 2006.

4.23 Based on the above, the meeting noted with concern that non or late receipt of FPLs and/or the improper handling of FPLs continues to be an issue which is jeopardizing the safety of air navigation in the MID Region. Since States have started to take unilaterally actions to penalize the aircraft whose FPL is not received or received but does not indicate the letter “W” in item 10, this issue is affecting efficiency in addition to raising safety concerns. The meeting was of view that a regional agreement should be reached with regard to the handling of such traffic and invited States to refrain from taking actions unilaterally. In this regard, reference was made to para. 5.2.1.2 of the “*ATC MANUAL FOR A REDUCED VERTICAL SEPARATION MINIMUM (RVSM) IN THE MID REGION*” developed within the framework of the RVSM Task Force during the RVSM pre-implementation phase, where it is stated that “*where ATC has reason to doubt the RVSM approval status of an aircraft, the controller shall solicit such information from the pilot. If the pilot confirms “RVSM approved”, the controller shall consider the flight as being RVSM approved*”. The meeting urged States to comply with the procedures agreed upon in the here-above mentioned Manual and to show more flexibility in dealing with this issue.

4.24 Based on the outcome of the survey carried out by UAE, the meeting noted that the causes which led to the improper handling of FPLs/ATS messages are multiple (more than 10). Concern was raised about the handling agencies responsible for the filing of FPLs on behalf of airlines, whose personnel might not have the necessary expertise and training. However, it was highlighted that these Agencies are certified by the Civil Aviation Authorities to carry out such work. The meeting further noted that the issue regarding the missing of letter “W” which directly concerns the RVSM Task Force represents around 10% of the total cases and all the other cases are of technical nature and therefore, have to be referred to the CNS/MET Sub Group.

4.25 Based on the foregoing, the meeting agreed to endorse the UAE methodology in carrying out the survey relative to the improper handling of FPLs and associated ATS messages and developed accordingly the following Draft Conclusions:

DRAFT CONCLUSION 12/3: SURVEY RELATIVE TO THE IMPROPER HANDLING OF FPLS AND ASSOCIATED ATS MESSAGES

That,

- a) *the methodology for the identification of causes of improper handling of FPLs and associated ATS messages at **Appendix 4F** to the report on Agenda Item 4 is endorsed;*
- b) *States carry out a survey relative to the improper handling of FPLs and associated ATS messages based on this methodology for a period of at least one month; and*
- c) *the results of the survey be ready before 30 September 2006 with a view to be presented to the CNS/MET SG/7 meeting.*

Note: This Draft Conclusion is proposed to supersede and replace MIDANPIRG/9 Conclusion 9/17.

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DRAFT CONCLUSION 12/4: FLEXIBLE HANDLING OF TRAFFIC INTENDING TO USE THE RVSM AIRSPACE

That, in accordance with the provisions of the ATC MANUAL FOR A REDUCED VERTICAL SEPARATION MINIMUM (RVSM) IN THE MID REGION, and with a view to enhance the safety and efficiency of air navigation in the MID Region:

- a) *States are urged to refrain from taking actions unilaterally to systematically penalize the flights intending to use the RVSM airspace when:*
 - i) *there's a doubt about the aircraft's RVSM approval status (missing of letter "W" from the FPL); or*
 - ii) *the FPL was not received; and*
- b) *States are invited to show more flexibility in dealing with this issue.*

Implementation of RVSM in the AFI Region

4.26 Bearing in mind the importance of the interface issues, the meeting recalled that the RVSM implementation Strategy/Action Plan for the AFI Region has been developed/completed and circulated to States for comments and action. The meeting was informed that the Tenth Meeting of the APIRG RVSM/RNAV/RNP Task Force and the RVSM Stakeholders Coordination Meeting (Go/Delay) are scheduled to be held in Dakar, 27-28 June 2006 and 29-30 June 2006, respectively. The main objective of the RVSM Go/Delay will be to review work completed and to determine whether the RVSM implementation target date of 28 September 2006 is still feasible. It was brought to the attention of the meeting that the Collision Risk Analysis showed that if RVSM is implemented today in the AFI Region, the Target Level of Safety (TLS) would be exceeded exponentially. The meeting further noted that Libya and Sudan have not yet developed their Safety National Plan and that doubt exists about their readiness to go for RVSM implementation.

4.27 Based on the above, the meeting invited concerned States (Egypt, Saudi Arabia and Yemen) to follow-up closely the planning process for the implementation of RVSM in the AFI Region and to ensure that the LOAs with Khartoum and Tripoli ACCs as well as with the other adjacent AFI Region ACCs be updated prior to the switch-over date for the implementation of RVSM in the AFI Region.

MID RVSM TF/12
Appendix 4A to the Report on Agenda Item 4

TABLE ATS 1 – ATS ROUTES
TABLEAU ATS 1 – ROUTES ATS
TABLA ATS 1 – RUTAS ATS

EXPLANATION OF THE TABLE

Column

- 1 Designator of ATS route.
- 2 Significant points defining the ATS routes. Only prominent locations have been listed. Additional points where facilities are provided to complete navigational guidance along a route, but not otherwise marking significant characteristics of the route (change of heading of centre line, intersection with other routes, etc.) have normally not been included. Locations shown in parentheses indicate significant points outside the Region.

Note 1. Not representing the operator's requirements. Operator's required route and/or nav aids are shown in square brackets ([]).

Note 2. Subject to further study. Including the associated navigation aid coverage.

Note 3. Subject to military agreement.

Note 4. Not acceptable at present.

Note 5. At present, implementation possible only during specific periods (e.g. weekends, nights, etc., as published).

Note 6. At present, implementation of the RNAV route only possible above FL 300, or as published.

Note 7. Unidirectional use.

Whenever reference to name States is made in Table ATS 1 in connection with the above notes, the following abbreviations, based on those indicated in Location Indicators (Doc 7910), are used:

HE	Egypt
HL	Libyan Arab Jamahiriya
HS	Sudan
LC	Cyprus
LL	Israel
OA	Afghanistan
OB	Kingdom of Bahrain
OE	Saudi Arabia
OI	Iran, Islamic Republic of
OJ	Jordan
OK	Kuwait
OL	Lebanon
OM	United Arab Emirates
OO	Oman
OP	Pakistan
OR	Iraq
OS	Syrian Arab Republic
OT	Qatar
OY	Yemen

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

A145	(LUXOR) WEJH GASSIM KING FAHD	UA145	(LUXOR) WEJH GASSIM KING FAHD
A219	(NAWABSHAH) SERKA 2951.0N 06615.0E KANDAHAR (TERMEZ)	UA219	(NAWABSHAH) SERKA 2951.0N 06615.0E KANDAHAR (TERMEZ)
A408	(ADDIS ABABA) SALEH 14000N 042000E HODEIDAH	UA408	(ADDIS ABABA) SALEH 14000N 042000E HODEIDAH
A411	(CAIRO) SHARM EL SHEIKH PASAM 2730.8N 03455.7E *Note 7(OE) WEJH KING ABDULAZIZ JAZAN SANA'A	UA411	(CAIRO) SHARM EL SHEIKH PASAM 2730.8N 03455.7E *Note 7(OE) WEJH KING ABDULAZIZ JAZAN SANA'A
A412	JERUSALEM * Note 4(OJ) AMMAN ZELAF 3257.0N 03800.0E TANF	UA412	JERUSALEM* Note 4(OJ) AMMAN ZELAF 3257.0N 03800.0E TANF
A413	TESSO 2828.9N 04927.4E VUXAL 2835.5N 04946.1E ALNIN 2840.9N 05001.6E BUSHEHR	UA413	TESSO 2828.9N 04927.4E VUXAL 2835.5N 04946.1E ALNIN 2840.9N 05001.6E BUSHEHR
A414	GITLA 3219.1N 03402.8E (SITIA)	UA414	GITLA 3219.1N 03402.8E (SITIA)
A415	KING KHALID DOHA * Note 5(OE,OB) SHARJAH	UA415	KING KHALID DOHA * Note 5(OE,OB) SHARJAH
A416	ARDABIL RASHT NOSHAHR DASHTE NAZ SABZEVAR	UA416	ARDABIL RASHT NOSHAHR DASHTE NAZ SABZEVAR

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

A417 KAPET 163322N 0530614E
IMPOS 183136N 0511848E
SILPA 184953N 0510158E
ASTIN 200410N 0495320E
NONGA 205048N 0492014E
ALRIK 220631N 0482535E
AMBAG 230529N 0474611E
RESAL 240649N 0470427E
KIA 245310N 0464534E

UA417 KAPET 163322N 0530614E
IMPOS 183136N 0511848E
SILPA 184953N 0510158E
ASTIN 200410N 0495320E
NONGA 205048N 0492014E
ALRIK 220631N 0482535E
AMBAG 230529N 0474611E
RESAL 240649N 0470427E
KIA 245310N 0464534E

A418 KUMUN 254000N 0551515E
PAPAR 2640N 05427E* Note 7
Segment KUMUN-PAPAR(OI and
OM)
SHIRAZ

A419 (ASHGABAT)
RIKOP 3740.0N 05814.8E
SABZEVAR
TABAS
DARBAND
KERMAN
BANDAR ABBAS
DARAX 260942N 0555300E
SHARJAH
MIADA 245112N 0545736E
MEMBI 243705N 0542631E *See
Note 4 for segment KITAP-MEMBI
KITAP 224928N 0522923E
PURDA 210805N 0510329E
ASTIN 200410N 0495320E
DIXEL 182927N 0481202E
SHARURAH (SHA)
SANA'A
HODEIDA

UA419 (ASHGABAT)
RIKOP 3740.0N 05814.8E
SABZEVAR
TABAS
DARBAND
KERMAN
BANDAR ABBAS
DARAX 260942N 0555300E
SHARJAH
MIADA 245112N 0545736E
MEMBI 243705N 0542631E*See
Note 4 for segment KITAP-MEMBI
KITAP 224928N 0522923E
PURDA 210805N 0510329E
ASTIN 200410N 0495320E
DIXEL 182927N 0481202E
SHARURAH (SHA)
SANA'A
HODEIDA

A422 UROMIYEH
TABRIZ
PARSABAD
(BAKU)

UA422 UROMIYEH
TABRIZ
PARSABAD
(BAKU)

A424 BAGHDAD
RAFHA * Note 3
HAIL
MADINAH

UA424 BAGHDAD
RAFHA * Note 3
HAIL
MADINAH

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

KING ABDULAZIZ

A451 LUXOR
ALEBA
PORT SUDAN
[ASMARA] * Note 1
ASSAB 1304.0 N 04238.8E
PARIM 1231.7N 04327.2E
ADEN
ANGAL 1614.0N 06000.0E
(MUMBAI)

A453 KABUL
GHAZNI
KANDAHAR
ZAHEDAN
BANDAR ABBAS
GHESHM (KHM)
BANDAR LENGEH
KISH
PIMAL 2626.5N05122.1E
BAHRAIN * Note 7 (OB, OI)

A466 (TERMEZ)
AMDAR 3712.5N 06720.6E
KABUL3431.1N 06909.1E
SANAM 3305.0N 07003.0E
(DERA ISMAIL KHAN)
(JHANG 3116.0N 07218.0E)
(SAMAR 3120.8N 07434.0E)
(ASARI 3048.3N 07509.6E)

A777 TONVO 250500N 0563200E
BUBAS 245938N 05700 03E
NADSO 244957N 0574926E
MIXOL 240618N 0592739E
VAXIM 231900N 0611100E

A788 SHIRAZ
BUSHEHR
KAPIP 290217N 0500054E
PATIR 285606N 0492923E
WAFRA 2837.3N 04757.5E
HAFR AL BATIN

KING ABDULAZIZ

UA451 LUXOR
ALEBA
PORT SUDAN
[ASMARA] * Note 1
ASSAB 1304.0N 04238.8E
PARIM 1231.7N 04327.2E
ADEN
ANGAL 1614.0N 06000.0E
(MUMBAI)

UA453 KABUL
GHAZNI
KANDAHAR
ZAHEDAN
BANDAR ABBAS
GHESHM (KHM)
BANDAR LENGEH
KISH
PIMAL 2626.5N05122.1E
BAHRAIN * Note 7 (OB, OI)

UA466 (TERMEZ)
AMDAR 3712.5N 06720.6E
KABUL 3431.1N 06909.1E
SANAM 3305.0N 07003.0E
(DERA ISMAIL KHAN)
(JHANG 3116.0N 07218.0E)
(SAMAR 3120.8N 07434.0E)
(ASARI 3048.3N 07509.6E)

UA775 REXOD 211230N 0613830E
KUSRA 231726N 0585102E

UA788 SHIRAZ
BUSHEHR
KAPIP 290217N 0500054E
PATIR 285606N 0492923E
WAFRA 2837.3N 04757.5E
HAFR AL BATIN

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**HAIL
HALAIFAH**

A791 **SISIK 2936.0N 03241.E**
NUWEIBAA
KITOT 2902.1N 03450.8E
~~*Note 7 (OE)~~
SOBAS 2756.0N 03904.9E
HAIL
KING FAHD
BAHRAIN *Note 7 Bahrain-
Sharjah

RATUN 2646.2N 05108.0E
SHARJAH
IMLOT 2517.1N 05708.1E
(JIWANI)

B121 **RUDESHUR(RUS)**
RASHT(RST)
MEGRI(MGR)

B400 **SEEB (MCT)**
ITURA 232351N 0580720E
IZKI (IZK)
HAIMA (HAI)
DAXAM 171612N 0544715E
BOSKI 1607.3N 5416.8E
ALULA 1207.3N 05102.7E
(MOGADISHU)

B401 **ARAR**
BASRAH * Note 3

B402 ~~ELEXI 3441.5N 04109.0E~~
DIER-ZZOR
ALEPPO
NISAP 364724N 0363830E

**HAIL
HALAIFAH**

UA791 **SISIK 2936.0N 03241.1E**
NUWEIBAA
KITOT 2902.1N 03450.8E
~~*Note 7 (OE)~~
SOBAS 2756.0N 03904.9E
HAIL
KING FAHD
BAHRAIN*Note 7 Bahrain-
Sharjah
RATUN 2646.2N 05108.0E
SHARJAH
IMLOT 2517.1N 05708.1E
(JIWANI)

UB121 **RUDESHUR(RUS)**
RASHT(RST)
MEGRI(MGR)

UB400 **SEEB(MCT)**
ITURA 232351N 0580720E
IZKI (IZK)
HAIMA (HAI)
DAXAM 171612N 0544715E)
BOSKI 1607.3N 5416.8E
ALULA 1207.3N 05102.7E
(MOGADISHU)

UB401 **ARAR**
BASRAH * Note 3

UB402 ~~ELEXI 3441.5N 04109.0E~~
UM861 **DIER-ZZOR**
ALEPPO
NISAP 364724N 0363830E

UB403 **MANDERA**
ATUKO 081811N 046040E
UBTEN 120814N0495611E
ODAKA 144036N 0523400E

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**B404 HARGEISA
IMRUB 120200N 0481500E
ODAKA144036N 0523400E**

**UB404 HARGEISA
IMRUB 120200N 0481500E
ODAKA144036N 0523400E**

**B406 BEN GURION
(LARNACA)**

**UB406 BEN GURION
(LARNACA)**

**B407 KING ABDULAZIZ
MAHDI 2026.0N 03739.3E
(PORT SUDAN)**

**UB407 KING ABDULAZIZ
MAHDI 2026.0N 03739.3E
(PORT SUDAN)**

**B410 (MUT)
CHEKKA *Note 3 (OS)
DAMASCUS**

**UB410 (MUT)
CHEKKA *Note 3 (OS)
DAMASCUS**

**B411 METSA 2930.0N 03500.0E
AL SHIGAR* Notes2 and 3
ARAR
LOVEK 3222.1N 04440.0E
NOLDO 3249.5N 04521.5E
PAXAT 332056N 0460519E
ILAM
MALAYER
SAVEH
[TEHRAN] * Note 1
DEHNAMAK
MASHHAD**

**UB411 METSA 2930.0N 03500.0E
AL SHIGAR* Notes2 and 3
ARAR
LOVEK 3222.1N 04440.0E
NOLDO 3249.5N 04521.5E
PAXAT332056N 0460519E
ILAM
MALAYER
SAVEH
[TEHRAN] * Note 1
DEHNAMAK
MASHHAD**

**B412 DAMASCUS
[AMMAN] * Note 2(OS, OJ)
AL SHIGAR
[KING ABDULAZIZ]**

**UB412 DAMASCUS
[AMMAN] * Note 2(OS, OJ)
AL SHIGAR
[KING ABDULAZIZ]**

**B413 (PORT SUDAN)
DANAK 1608.0N 04129.0E
HODEIDAH
TAIZ
ADEN
ZIZAN 1151.6N 04539.2E
(GAGDO 0725.0N 04827.0E)
(PRASLIN)**

**UB413 (PORT SUDAN)
DANAK 1608.0N 04129.0E
HODEIDAH
TAIZ
ADEN
ZIZAN 1151.6N 04539.2E
(GAGDO 0725.0N 04827.0E)
(PRASLIN)**

**B415 DOHA
BUNDU 2500.4N 05229.4E
ABU DHABI AUH**

**UB415 DOHA
BUNDU 2500.4N 05229.4E
ABU DHABI AUH**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

B416 KUWAIT
KUVER 2809.4N 05006.0E
IMDAT 2741.0N 05111.0E
ORSAR 2604.5N 05357.5E
SHARJAH

UB416 KUWAIT
KUVER 2809.4N 05006.0E
IMDAT 2741.0N 05111.0E
ORSAR 2604.5N 05357.5E
SHARJAH

B417 MAHSHAHR
TULAX 2938 53N 04903 01E
DESLU 2928.0N 04901.8E
ALVIX 2919.3N04824.2E
KUWAIT *See Note 3
HAFR AL BATIN
GASSIM
KING ABDULAZIZ

UB417 MAHSHAHR
TULAX 2938 53N 04903 01E
DESLU 2928.0N 04901.8E
ALVIX 2919.3N04824.2E
KUWAIT*See Note 3
HAFR AL BATIN
GASSIM
KING ABDULAZIZ

B418 SEMRU 2802.0N 03203.0E
HURGHADA
WEJH
MADINAH
BIR DARB (BDB)
KING KHALID
KING FAHD
PIMAL 2626.5N 05122.1E

UB418 SEMRU 2802.0N 03203.0E
HURGHADA
WEJH
MADINAH
BIR DARB (BDB)
KING KHALID
KING FAHD
PIMAL 2626.5N 05122.1E

B419 [DOHA]
[KING FAHD] * Note3 (OB, OT)
ALVON 2700.2N 05007.2E
SELEG 2801.5N 04922.2E
KUWAIT

UB419 [DOHA]
[KING FAHD] * Note3 (OB, OT)
ALVON 2700.2N 05007.2E
SELEG 2801.5N 04922.2E
KUWAIT

B424 SANA' A 153000N0441310.6E
SABEL 185200N 05203.7E
OTISA 201000N 0554556E
GISKA 213503N 0574014E

UB424 SANA' A 153000N0441310.6E
SABEL 185200N 05203.7E
OTISA 201000N 0554556E
GISKA 213503N 0574014E

B441 MASHHAD
OTRUZ 363108N 0610956E
ASHGABAT

UB441 MASHHAD
OTRUZ 363108N 0610956E
ASHGABAT

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**B451 DEHNAMAK
BOJNORD (BRD)
DOLOS 375006N 0580200E
(ASHGABAT)**

**UB451 DEHNAMAK
BOJNORD (BRD)
DOLOS 375006N 0580200E
(ASHGABAT)**

**B457 BAHRAIN
ELOSA 2548.8N 05142.6E
* Note7 (segment ELOSA-REXOD)
ABU DHABI
LABRI 240344N 0553842E
EGROK 235253N 0560126E
LAKLU 232235N 0570401E
LOTUD 223720N 0583503E
REXOD211230N 0613830E**

**UB457 BAHRAIN
ELOSA 2548.8N 05142.6E
* Note7 (segment ELOSA-REXOD)
ABU DHABI
LABRI 240344N 0553842E
EGROK 235253N 0560126E
LAKLU 232235N 0570401E
LOTUD 223720N 0583503E
REXOD 211230N 0613830E**

**B466 NAWABSHAH 2613.1N 06823.1E
KANDAHAR 312900N 0655400E
CHARN 351000N 0610800E**

**B505 LALDO 251806N 0563600E
NADSO 244957N 0574926E
EGTAL 2434 58N 06037 24E**

*Note designator changed from
B525 to B505 as B525 already
assigned in AFI Region)*

**B524 NADSO 244957N 0574926E
ALPOR 2404 42N 06120E**

**B526 (ASMARA)
HODEIDAH
RIYAN
ODAKA 1440.6N 05234.0E**

**UB526 (ASMARA)
HODEIDAH
RIYAN
ODAKA 1440.6N 05234.0E**

**B535 (DJIBOUTI)
ADEN
RIYAN
KAPET 1633 22N 0530614E
SALALAH
MARMUL(MRL)**

**UB535 (DJIBOUTI)
ADEN
RIYAN
KAPET 1633 22N 0530614E
SALALAH
MARMUL(MRL)**

**B538 (GAZIANTEP)
ALEPPO
KARIATAIN
DAMASCUS * Note 2(OS)**

**UB538 (GAZIANTEP)
ALEPPO
KARIATAIN
DAMASCUS * Note 2 (OS)**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

B540 TOTOX 215030N 0622230E
ITUDO 2347N 0580113E
PASOV 243841N 0565037E
KUPMA 245148N 0562648E
BUBIN 245742N 0560642E

B544 (GAZIANTEP)
ALEPPO
TANF
TURAIF
AL SHIGAR
HALAIFA
MADINAH
RABIGH
KING ABDULAZIZ
ABHA
NOBSU
SANA'A
KRA

B545 (MUT)
BALMA 3428.9N 035 3.0E
KHALDEH
AMMAN * Note 3&4 (OJ)

G183 (KAROL 3252.0N 03229.0E)
PASOS
EL ARISH
TABA
NUWEIBAA

G202 (VELOX 3349.0N 03405.0E)
SILKO 3347.9N 03435.0E
KHALDEH* Note 4 (OS)
DAKWE 3338.9N 03555.0E
DAMASCUS
TANF
MODIK 3328.1N 03901.0E
RAPLU 3323.0N 04145.5E
PUSTO 3321.0N 04245.0E
BGD
PARUN 3324.2N 04502.0E
RAGET 3330.8N 04553.8E
ILAM
KHORAM ABAD

UB544 (GAZIANTEP)
ALEPPO
TANF
TURAIF
AL SHIGAR
HALAIFA
MADINAH
RABIGH
KING ABDULAZIZ
ABHA
NOBSU
SANA'A
KRA

UB545 (MUT)
BALMA 3428.9N 035 3.0E
KHALDEH
AMMAN * Note 3&4(OJ)

UG202 (VELOX 3349.0N 03405.0E)
SILKO 3347.9N 03435.0E
KHALDEH * Note 4(OS)
DAKWE 3338.9N 03555.0E
DAMASCUS
TANF
MODIK 3328.1N 03901.0E
RAPLU 3323.0N 04145.5E
PUSTO 3321.0N 04245.0E
BGD
PARUN 3324.2N 04502.0E
RAGET 3330.8N 04553.8E
ILAM
KHORAM ABAD

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

	ESFAHAN NODLA BIRJAND KAMAR 3239.0N 06044.0E DILARAM KANDAHAR (ZHOB) (RAHIM YAR KHAN)		ESFAHAN NODLA BIRJAND KAMAR 3239.0N 06044.0E DILARAM KANDAHAR (ZHOB) (RAHIM YAR KHAN)
G206	DILARAM KABUL SABAR 3537.0N 07131.0E (PURPA 3656.5N 07524.5E) * Note 3	UG206	DILARAM KABUL SABAR 3537.0N 07131.0E (PURPA 3656.5N 07524.5E) * Note 3
G208	(PANJGUR) ZAHEDAN DARBAND NODLA 325330N 0545850E ANARAK TEHRAN ZANJAN UROMIYEH ALRAM 3743.0N 04437.0E (SIIRT)	UG208	(PANJGUR) ZAHEDAN DARBAND NODLA 325330N 0545850E ANARAK TEHRAN ZANJAN UROMIYEH ALRAM 3743.0N 04437.0E (SIIRT)
G452	SHIRAZ KERMAN ZAHEDAN (RAHIMYAR KHAN)	UG452	SHIRAZ KERMAN ZAHEDAN (RAHIMYAR KHAN)
G462	BAHRAIN PIMAL2626.5N 05122.1E * Note 7 between AUH and URITO URITO 2616.1N 05148.8 E BALUS 2545.9N 05304.4E ABU DHABI	UG462	BAHRAIN PIMAL2626.5N 05122.1E * Note 7 between AUH and URITO URITO 2616.1N 05148.8 E BALUS 2545.9N 05304.4E ABU DHABI
G650	KING ABDULAZIZ RASKA 1908.0N 03903.0E (ASMARA)	UG650	KING ABDULAZIZ RASKA 1908.0N 03903.0E (ASMARA)
G652	ADEN IMPOS 183136N 0511848E DUDRI 190000N 0520000E TOKRA 220925N 0553350E TAPDO 2424N 06120 E	UG652	ADEN IMPOS 183136N 0511848E DUDRI 190000N 0520000E TOKRA 220925N 0553350E TAPDO 2424N 06120 E

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**G660 (PORT SUDAN)
BOGUM 2006.6N 03803.0E
KING ABDULAZIZ
ABU DHABI * Note3 (OE, OM)**

**UG660 (PORT SUDAN)
BOGUM 2006.6N 03803.0E
KING ABDULAZIZ
ABU DHABI * Note3 (OE, OM)**

**G662 [DAMASCUS]
[GURIAT] * Notes 1 and 3 (OS,
OJ)
AL SHIGAR
HAIL
GASSIM
KING KHALID**

**UG662 [DAMASCUS]
[GURIAT] * Notes 1 and 3 (OS,
OJ)
AL SHIGAR
HAIL
GASSIM
KING KHALID**

**G663 KING KHALID
KING FAHD
SHIRAZ
YAZD
TABAS
MASHAD**

**UG663 KING KHALID
KING FAHD
SHIRAZ
YAZD
TABAS
MASHAD**

**G664 APLON 3352.0N 03204.0E
BEN GURION
AMMAN**

**UG664 APLON 3352.0N 03204.0E
BEN GURION
AMMAN**

**G665 ABADAN
SHIRAZ * Note 5 (OI)
NABOD 2816.1N 05825.8E
EGSAL 2716.8N 06249.0E
(PANJGUR)**

**UG665 ABADAN
SHIRAZ * Note 5 (OI)
NABOD 2816.1N 05825.8E
EGSAL 2716.8N 06249.0E
(PANJGUR)**

**G666 SHIRAZ * Note 7 (OI)
LAMERD
LAVAN
ORSAR 2604 .5N 05357.5E
DESDI 2536.1N 05442.5E
MIADA 245112N 0545736E
ABU DHABI (AUH)**

**UG666 SHIRAZ * Note 7 (OI)
LAMERD
LAVAN
ORSAR 2604.5N 05357.5E
DESDI 2536.1N 05442.5E
MIADA 245112N 0545736E**

**G667 TEHRAN
SAVEH
AHWAZ
ABADAN
ALSAN 2957.1N 04814.9E
FALKA**

**UG667 TEHRAN
SAVEH
AHWAZ
ABADAN
ALSAN 2957.1N 04814.9E
FALKA**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

KUWAIT
WAFRA
MAGALA
KING KHALID
WADI AL DAWASIR
NEJLAN
SANA'A
PARIM 123142.7N 0432712E
(DJIBOUTI)

G668 ZHOB
GHAZNI
RAPTA 3727.0N 06538.0E

G669 KARIATAIN *Note 1,2&3 (OJ)
TONTU 3148.1N 03811.2E
AL SHIGAR
AL JOUF
RAFHA
SOLAT 2909.7N 04638.2E
KUWAIT
SESRA 2908.1N 04854.9E
NANPI 2905.0N 04932.0E
BUSHEHR
VATOB 285126N 0511636E)
[SHIRAZ]

G670 RASHT
LALDA 3817.1N 04943.0E
(BAKU)

G671 TANF
HAWIJA
MOSUL
UROMIYEH * Notes 2 and 3

G674 MADINAH
GASSIM 2617.9N 04346.8E

G775 (ASHGHABAT)
ORPAB 3742N 05834.5E
MASHHAD
[BIRJAND] * Note 1
ZAHEDAN

KUWAIT
WAFRA
MAGALA
KING KHALID
WADI AL DAWASIR
NEJLAN
SANA'A
PARIM 123142.7N 0432712E
(DJIBOUTI)

UG668 ZHOB
GHAZNI
RAPTA 3727.0N 06538.0E

UG669 KARIATAIN *Note 1,2&3 (OJ)
TONTU 3148.1N 03811.2E
AL SHIGAR
AL JOUF
RAFHA
SOLAT 2909.7N 04638.2E
KUWAIT
SESRA 2908.1N 04854.9E
NANPI 2905.0N 57N 04932.0E
BUSHEHR
VATOB 285126N 0511636E
[SHIRAZ]

UG670 RASHT
LALDA 3817.1N 04943.0E
(BAKU)

UG671 TANF
HAWIJA
MOSUL
UROMIYEH * Notes 2 and 3

UG674 MADINAH
GASSIM 2617.9N 04346.8E

UG775 (ASHGHABAT)
ORPAB 3742N 05834.5E
MASHHAD
[BIRJAND] * Note 1
ZAHEDAN

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

G781 (VAN)
BONAM 3802.9N 04418.0E
UROMIYEH
ROVON 3716 01N 0455322E
ZANJAN

UG781 (VAN)
BONAM 3802.9N 04418.0E
UROMIYEH
ROVON 3716 01N 0455322E
ZANJAN

G782 KING ABDULAZIZ
RAGABA
KING KHALID
MAGALA
WAFRA 2837.3N 04757.5E
KUWAIT

UG782 KING ABDULAZIZ
RAGABA
KING KHALID
MAGALA
WAFRA 2837.3N 04757.5E
KUWAIT

UG783 PURDA 210805N 0510329E
TANSU 224136N 0542828E
NIGEL230146N 0551430E
ELUDA 235107N 0552905E
ALN 241535N 0553623E
GIDIS 243600N 055600E
BUBIN 245742N 0560642E

~~**G787E**~~ LAKLU 232235N 0570401E
G216 SEEB(MCT)
DORAB 235033N 0594746E
ALPOR 240441N 0612000E
LATEM
(KC)

~~**UG787E**~~ LAKLU 232235N 05704 01E
UG216 SEEB(MCT)
DORAB 235033N 0594746E
ALPOR 240441N 0612000E
LATEM
(KC)

~~**G787W**~~ (KC)
A454 PARET
TAPDO 242400N 0612000E
VUSET 235540N 0590812E
PASOV 243841N 0565037E

~~**UG787W**~~ (KC)
UA454 PARET
TAPDO 242400N 0612000E
VUSET 235540N 0590812E
PASOV 243841N 0565037E

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**G792 (TURKMENBASHI)
MASHAD
CHARN 3510.0N 06108.0E
HERAT
KANDAHAR
ASLUM 3101N 06637E
(RAHIM YAR KHAN)**

**UG792 (TURKMENBASHI)
MASHAD
CHARN 3510.0N 06108.0E
HERAT
KANDAHAR
ASLUM 3101N 06637E
(RAHIM YAR KHAN)**

**G795 FALKA 2926.2N 04818.3E
TASMI 300120N 0475505E
BSR 303132.4N 0472112E
RAFHA**

**UG795 FALKA 2926.2N 04818.3E
TASMI 300120N 0475505E
BSR 303132.4N 0472112E
RAFHA**

**G796 KABUL
JALALABAD
LAJAK 335600N 0703000E
HANGU 332906N 0710018E**

**UG796 KABUL
JALALABAD
LAJAK 335600N 0703000E
HANGU 332906N 0710018E**

**G799 PMA
DAFFINAH**

**UG799 PMA
DAFFINAH**

**UL124 (VAN)
BONAM
URUMIYEH (UMH)
ZANJAN(ZAJ)
SAVEH (SAV)
YAZD(YZD)
KERMAN(KER)
KEBUD 273558N 0625028E
(PANJGUR)**

**UL125 DULAV 3857N 04537.9E
TABRIZ (TBZ)
ZANJAN
PAROT 360940N 0495756E
TEHRAN
ANARAK
DARBAND
ZAHEDAN
DANIB 2909.5N 06120.1E
(PANJGUR)**

**L126 PUSTO 3321.0N 04245.0E
SOGUM 3412.2N 04354.9E
MIGMI 3345.9N 04527.4E
ILAM**

**UL126 PUSTO 3321.0N 04245.0E
SOGUM 3412.2N 04354.9E
MIGMI 3345.9N 04527.4E
ILAM**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

L200 AMMAN *Notes 2 and 3 (OJ)
PASIP 3300.0N 03855.2E
RAPLU 3323.0N 04145.5E

UL200 AMMAN *Notes 2 and 3 (OJ)
PASIP 3300.0N 03855.2E
RAPLU 3323.0N 04145.5E

L223 SIRRI
NALTA 250242N 0553955E
TARDI 243418N 0560915E
LAKLU 232235N 05704 01E

UL223 UROMIYEH
SANANDAJ
KHORAM ABAD
MESVI 312920N 0495701E
LAMERD
SIRRI * Note 7 (OI, OM)
NALTA 250242N 0553955E
TARDI 243418N 0560915E
LAKLU 232235N 05704 01E

L301 RASKI 230330N 0635200E
VAXIM 231900N 0611100E
RAGMA 232301N 0603846E
MIBSI 234139N 0575523E

UL300 LUXOR
GIBAL2437.2N03634.7E
YENBO 2408.8N 03803.9E
DAFINAH 2317.0N 04143.2E

UL301 AAU 5153N 07523 38.6E
NOBAT 210902.5N 0880000.1E
RASKI 230330N 0635200E
VAXIM 231900N 0611100E
RAGMA 232301N 0603846E
MIBSI 234139N 0575523E

L305 DOHA
ITITA 2544.2N 05418.7E

L306 TOKRA 220925N 0553350E* *
Note- (OO)
DEMKI 224941N 0562308E
LAKLU 232235N 0570401E

UL306 TOKRA 220925N 0553350E
* Note- (OO)
DEMKI 224941N 0562308E
LAKLU 232235N 0570401E

L315 CAIRO * Note 3 (HE)
HURGHADA
GIBAL 2437.2N 03634.7E

UL315 CAIRO * Note 3 (HE)
HURGHADA
GIBAL 2437.2N 03634.7E

L317 LOPAS 343003N 0433834E
ALVIS 343004N 0435518E
DASUR 343006N 0442417E
DENKI 322228N 0455122E
MUTLO 321019N 0445703E

UL317 LOPAS 343003N 0433834E
ALVIS 343004N 0435518E
DASUR 343006N 0442417E
DENKI 322228N 0455122E
MUTLO 321019N 0445703E

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

GETID 351551N 0425559E
NADID 352611N E0460145E

L321 KATAB 292501N 0290506E
KUNKI 290726N 0291949E
LUGAN 224205N 0313722E
SML 222118N 0313719E

L417 RAMPI 3516.7N 04356.3E
SOGUM 3412.2N 04354.9E
BGD
LOVEK 3222.1N 04440.0E

L513 KHALDEH
CHEKKA
LEBOR 3415.9N 03635.0E
DAMASCUS * Note 3 (OS)
BUSRA 3220.0 N 03637.0 E
HAZEM 3214.0 N 03638.0 E
QUEEN ALIA
QATRANEH (QTR)

GETID 351551N 0425559E
NADID 352611N E0460145E

UL321 KATAB 292501N 0290506E
KUNKI 290726N 0291949E
LUGAN 224205N 0313722E
SML 222118N 0313719E

UL322 MUMBAI * Note 7&1
SUGID 1933.1N 06921.0E
BOLIS 2033.5N 065 00.0E
REXOD 2112.5N 06138.5E

UL333 DASIS
TABRIZ
RASHT
ORSOK 362236N 0523020E
AMBEG 351737N 0553059E
TASLU 342632N 0574234E
SOKAM 331316N 0603754E

UL417 RAMPI 3516.7N 04356.3E
SOGUM 3412.2N 04354.9E
BGD
LOVEK 3222.1N 04440.0E

UL425 KING ABDULAZIZ
MALIK 2053.4N 03949.6E
AL BAHA
BISHA
WADI AL DAWASIR
EGREN 202236N 0464422E
ASTIN 200410N 0495320E
DIRAS 195235N 0513704E
GOBRO 193622N 0534741E
BOVOS 182230N 0575844E
ASPUX 174406N 0600006E
(TRIVANDRUM)

UL513 KHALDEH
CHEKKA
LEBOR 3415.9N 03635.0E
DAMASCUS * Note 3 (OS)
BUSRA 3220.0 N 03637.0E
HAZEM 3214.0 N 03638.0E
QUEEN ALIA
QATRANEH (QTR)

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**L519 MIADA 245112N 0545736E
*Note 7
KUMUN 254000N 0551512E**

**UL519 ABU DHBI (AUH) * Note 7
MIADA 245112N 0545736E**

**UL550 WAFRA *Note7 (OE)
ROSID 2842.4N 04652.6E
VATIM 2851.6N 04444.7E
RASMO 2857.2N 04331.3E
ORSAL2902.8N 04210.8E
NIMAR 2906.6N 03954.4E
KITOT 2902.1N 03450.8E*Note 7
NUWEIBAA
TABA
EL ARISH
PASOS
(KAROL 3252.0N 03229.0E)**

**L555 TOTOX 215030N 0622230E
TUMET 222307N 0595702E
LOTUD 224008N 0583624E**

**UL555 TOTOX 215030N 0622230E
TUMET 222307N 0595702E
LOTUD 224008N 0583624E**

**UL556 EGREN 202236N 0464422E
NONGA 205048N 0492014E
PURDA 210805N 0510329E
Note:- 7 (OO, OB)
IMDAM 202416N 0550801E
HAIMA 195813N 0561651E
KUTVI 184306N 0582642E**

**UL560 ARDABIL 3819.9N 04824.9E
* Note 3&4 (OI)
SEVAN 4032.0N 04456.9E**

**UL566 PAKER 115500N 0463500E
KAPET 163322N 0530614E**

**UL572 KAMISHLY (KML)
LESRI 3704.3N 04113.8E**

**UL573 DAFINAH 231658N 0414310E
WEHJ 261045N 0362917E**

**UL601 (BAGLUM –BAG 04004.2 03248.6)
* Note 7**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

ADANA 3656.4N 03512.6E
TUNLA 3553.0N 0360200E)
KARIATAIN 3412.8N 03715.9E

UL602 BAHRAIN
ALVON 270009N 0500711E*Note 7
SELEG 280130N 0492212E
RAPSI 282326N 0490551E
DARVA 284814N 0484734E
ALVIX 2919.3N04824.2E
FALKA 292611N 0481819E
TASMI 300120N 0475505E
BASRAH
LOVEK322206N 0444000E
DELMI331911N 0431731E
ELEXI 344237N 0411054E
DRZ 351724N 0401124E
KUKSI 364508N 0374910E
GAZ 365701N 0372824E

UL607 SITIA (SIT)* Note 7
PAXIS 3357.1N02720.0E
OTIKO 3134.4N 02936.6E
ALEXANDRIA (AXD)

UL613 EL DABA (DBA)*Note 7
SOKAL 3236.0N 02737.1E
TANSA 3400.0N 02649.0E

L617 AXD
ASNIR 323848N 0282142E
TANSA 340000N 0264900E

UL617 AXD
ASNIR 323848N 0282142E
TANSA 340000N 0264900E

L631 TOTOX 215030N0622230E
SEVLA 233321N 0591122E

UL631 TOTOX 215030N0622230E
SEVLA 233321N 0591122E

L750 ZHOB 3121.3N 06927.6E
ROSIE 3140.0N 06900.0E
MAXIM 3246.2N 06727.4E
HORST 3327.6N 06627.5E
VELDT 3430.0N 06454.1E
RANAH 3535.0N 06312.0E
(AFGAN-3824.0N 05817.0E

UL750 ZHOB 3121.3N 06927.6E
ROSIE 3140.0N 06900.0E
MAXIM 3246.2N 06727.4E
HORST 3327.6N 06627.5E
VELDT 3430.0N 06454.1E
RANAH 3535.0N 06312.0E
(AFGAN-3824.0N 05817.0E

L764 SEEB (MCT)
ALMOG 233524N 0574940E
IVETO 233520N 0570704E
PAXIM 240245N 0561631E

UL764 SEEB (MCT)
ALMOG 233524N 0574940E
IVETO 233520N 0570704E
PAXIM 240245N 0561631E

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

		UL768	PIMAL 2626.5N 05122.1E ALVON2700.2N 05007.2E COPPI 2750.6N 04744.0E HFR VATIM 2851.6N 04444.7E RAFHA (RAF) ARAR (AAR) OVANO3148.0N 03909.9E OTILA 3201.5N 03901.9E
		UL883	REXOD 211230N 0613830E UMILA 211555N 0584738E SITOL 211604N 0552514E PURDA 210805N 0510329E ALRIK 220631N 0482535E PMA N243251N 0394219E
M203	PUSTO 3321.0N 04245.0E LOVEK 3222.1N 04440.0E DISAR 3131.3N 04613.4E	UM203	PUSTO 3321.0N 04245.0E LOVEK 3222.1N 04440.0E DISAR 3131.3N 04613.4E
M300	LOTAV 2037N 0605700E EMURU 221535N 0584950E	UM300	(CALICUT) LOTAV 2037N 0605700E EMURU 221535N 0584950E
M301	SANA'A SAA KAPET 163322N 0530614E	UM301	SANA'A SAA KAPET 163322N 0530614E
		UM309	KIND KHALED NASIR 221444N 0400315E
M320	KING FAHD JUBAIL KUWAIT	UM320	KING FAHD JUBAIL KUWAIT
		UM321	RAGHBA HAIL HALAIFA 262602N 0391609E KING KHALED
M508	KING KHALED OVEKU 250955N 0445701E MADINAH	UM508	KING KHALED OVEKU 250955N 0445701E MADINAH

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**M551 AVAVO 1646.3N 05526.1E
DAXAM 171612N 0544715E**

**UM551 DONSA1435.3N06344.0E
ANGAL1614.1N 06000.1E
AVAVO 1646.3N 05526.1E
DAXAM 171612N 0544715E**

**M552 (RAHIM YAR KHAN)
BIRJAND (BJD)
DEHNAMAK(DHN)
TEHERAN (TRN)
ZANJAN
TABRIZ (TBZ)**

**UM552 (RAHIM YAR KHAN)
BIRJAND (BJD)
DEHNAMAK(DHN)
TEHERAN (TRN)
ZANJAN
TABRIZ (TBZ)**

**M561 KISH * Note 3&4 (OI)
MOBET 2645.3N 05609.8E
EGSAL 2716.8N06249.0E
PANJGUR**

**UM561 RATUN 2646.2N05108.0E *See
Note 7
MIDSI 2641.7N05154.7E
KISH * Note 3&4 (OI)
MOBET 2645.3N 05609.8E
EGSAL 2716.8N06249.0E
PANJGUR**

**UM573 TEHERAN (TRN)
TABRIZ 3808.3N 04613.9E**

**UM574 (MALE)
(POPET) 0713.7N06813.6E
NABIL 1222.0E0600.0E
ODAKA 1440.6N05234.0E
SYN 1557.7N04847.2E
HELAL 1716.0N04422.0E
NOBSU 171554N 0431318E
ABHA 1814.4N04239.5E
JEDDAH**

**M628 EGVAN 230127N 0561907E
TULBU 230005N 0571827E
GEVED 230105N 0575111E
GIDAN 230104N 0582232E
KAXEM 225103N 0595243E
PARAR 222630N 0630700E**

**UM628 DAFINAH 231700N 0414312E
KIPOM 225316N 0501518E
MIGMA 225035N 0512749E
KITAP 224928N 0522923E
ALPEK 224648N 0535942E
EGVAN 230127N 0561907E
TULBU 230005N 0571827E
GEVED 230105N 0575111E
GIDAN 230104N 0582232E
KAXEM 225103N 0595243E
PARAR 222630N 0630700E**

**M634 ANGAL 161406N 0600006E
UBTEN 120814N0495611E**

**UM634 ANGAL 161406N 0600006E
UBTEN 120814N0495611E**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**M651 ADEN
(HARGEISA)**

**UM651 ADEN
(HARGEISA)**

**M762 REXOD 211230N 0613830E
SUR 223159N 0592829E
ALMOG 233524N0574940E
TAPRA 242607N 0563803E
VAXAS 244308N 0561807E
* Note 7 (OM, OO)
BUBIN 245742N 0560642E**

**UM877 VUSET 235540N 0590812E
KUSRA 232426N 0582611E**

**M881 (BANNU -BN)
LAJAK 3356.0N 07030.0E
JALAL 3430.0N 07045.0E
MATAL 3600.0N 07100.0E
ANWAR 3652.0N 07034.0E
(GARRI- 3825.0N 07034.0E)**

**UM881 (BANNU -BN)
LAJAK 3356.0N 07030.0E
JALAL 3430.0N 07045.0E
MATAL 3600.0N 07100.0E
ANWAR 3652.0N 07034.0E
(GARRI- 3825.0N 07034.0E)**

**UM999 (LUXOR)
DEDLI 2242 32N 03737 19E
OSAMA 2215 54N 03817 34E
KING ABDULAZIZ (JDW)**

**N303 (HARGEISA)
PARIM 1231.7N 04327.2E
RIBOK 1547N 04152.5E
LABNI 1656.3N 04109.4E**

**UN303 (HARGEISA)
PARIM 1231.7N 04327.2E
RIBOK1547N 04152.5E
LABNI 1656.3N 04109.4E**

**UN315 ASPUX 174406N 0600006E
KUTVI 184306N 0582642E
Note:- 7 (OO/OB)
SITOL 211604N 0552514E
LOTOS 220000N 0503912E
RAPMA 232229N 0482010E
RESAL 240649N 0470427E
KING KHALED**

**UN316 HALAIFA 262602N 0391609E
PASAM 273045N 0345542E**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

		UN318	TONTU 314804N 0381110E RAGOM 313227N 0381656E NEVOL 3024.7N 03938.6E VELAL2946.0N 04038.4E TAMRO 2838.6N 04240.8E MOGON 2738.8N 04445.9E TAGSO 2727.7N 04545.2E KUSAR 2647.7N 04902.3E KFA
		UN319	ZAHEDAN TABAS (TBS) DASHT-E-NAZ (DNZ) ULDUS- 3800.0N 05101.0E
N324	NALTI 221858N 0500751E OBNAM 211843N 0503532E PURDA 210805N 0510329E GOBRO 193622N 0534741E MRL 180832N 0551040E	UN324	NALTI 221858N 0500751E OBNAM 211843N 0503532E PURDA 210805N 0510329E GOBRO 193622N 0534741E MRL 180832N 0551040E
N519	KHI -245436N 0671036E SAPNA 233000N 0675000E PRN 213824N 0693948E TAXUN 211906N 0701520E EXOLU 201248N 0713412E (BBB- 190506N 0725230E		
		UN555	BELGAUM BISET 1823.4N 06918.1E KATBI 1931.6N 06500.0E LOTAV 2037.0N 06057.0E
N563	REXOD 211230N 0613830E*Note 7 (OO.OM) EMURU 221357N 0585338E TULBU 230005N 0571827E MEKNA 223309N 0560815E SODEX 234954N 0553202E NOBTO 235525N 0551840E AUH 242612N 0543900E	UN563	(BANGALORE) REXOD 211230N 0613830E*Note 7 (OO.OM) EMURU 221357N 0585338E TULBU 230005N 0571827E MEKNA 223309N 0560815E SODEX 234954N 0553202E NOBTO 235525N 0551840E AUH 242612N 0543900E
		UN569	JDW 214045N 0390958E NASIR 221642N 0400318E LOTOS Note:- 7 (OB/OO)

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

			TOKRA 220925N 0553350E UMILA 211555N 0584738E LOTAV 203700N 0605700E
N571	PARAR 2226.5 N 06307E* Note 7 (OO) RAGMA 230600N 0610539E * Note 7 (OO, OM) VUSET 235540N 0590812E MENSA 245750N 0563249E ATBOR 251007N 0551947E RANBI 251908N 0544500E BALUS 254554N 0530424E	UN571	(SUGID- 1933.1 N 06921.0E) PARAR 2226.5 N 06307E* Note 7 (OO OM) RAGMA 230600N 0610539E * Note 7 (OO) VUSET 235540N 0590812E MENSA 245750N 0563249E ATBOR 251007N 0551947E RANBI 251908N 0544500E BALUS 254554N 0530424E
N629	TARDI 243418N 0560915E *Note 7 (OO) NOSMI 241757N 0563002E RAGUD 234701N 0571644E SEEB (MCT)	UN629	TARDI 243418N 0560915E*Note 7 (OO) NOSMI 241757N 0563002E RAGUD 234701N 0571644E SEEB (MCT)
N638	KING KHALED PMA 243251N0394219E	UN638	KING KHALED PMA 243251N0394219E
		UN644	(DERA ISMAIL KHAN) GHAZNI (GN) LEMOD 3610.0N 06417.5E (MEKOL -3730.0N 06200.0E) (TABIP-3900.0N 05820.0E)
N764	NOBSU 171554N 0431318E RIN 144015N 0492329E SOCOTRA 123749N 0535429E	UN764	NOBSU 171554N 0431318E RIN 144015N 0492329E SOCOTRA 123749N 0535429E
N767	PARAR 222630N 0630700E SEVLA 233321N 0591122E SEEB (MCT) * Note 7	UN767	PARAR 222630N 0630700E SEVLA 233321N 0591122E SEEB (MCT) * Note 7
		UN881	RASKI 230330N 0635200E SETSI 230412N 0614410E MUSRU 230256N 0592223E *Note 7 GIDAN 230104N 0582232E
P302	HALAIFA*Note 3(OE,OJ)	UP302	HALAIFA *Note 3(OE,OJ)

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**GURIAT
HAZEM**

**GURIAT
HAZEM**

		UP307	SHJ VOR Note 7 (OM,OO) PARAR 222630N 0630700E
P312	RIYAN PAKER 1155.0N0463500E (HARGEISA)	UP312	RIYAN PAKER 1155.0N0463500E (HARGEISA)
P316	SALALLAH * Note 7 (OO) DAXAM GAGLA 180505N 0552410E RADAX 220809N 0580230E SEEB (MCT)	UP316	SALALLAH * Note 7 (OO) DAXAM 171612N 0544715E GAGLA 180505N 0552410E GIVNO 195011N 0563059E SITAD 201032N 0564415E GISKA 213503N 0574014E RADAX 220809N 0580230E SEEB (MCT)
		UP318N UP518	NOBAT 2109 02N 0680000E KABIM 2330 00N 06628 00E PAXUR-2400N 0660000E PARET 2527.2N 06451.5E PANJGUR * Note 7 (OI)
P319	PANJGUR * Note 7 (OI) DOSTI 255800N 0650300E KHI -255436N 0671036E SAPNA 2330N 06750E PAXUR 2400N 06600E BILAT 205824N 06800E	UP319	PANJGUR * Note 7 (OI) DOSTI 255800N 0650300E KHI -255436N 0671036E SAPNA 2330N 06750E PAXUR 2400N 06600E BILAT 205824N 06800E
		UP323	ANODA 0958.1N 07224.0E GOLEM 1157.7N 0672202E GIDAS 142004N0600000E KADER151300N 05500E PATAP 152744N0532929E AL-GHAIDAH THAMUD 1717.0N 04955.0E BISHA 1958.7N 04237.5E JEDDAH
P500	(DERA ISMAIL KHAN - DI) (BANNU -BN) (HANGU- 3329.1N 07100.4E) (PESHAWAR-PS)	UP500	(DERA ISMAIL KHAN - DI) (BANNU -BN) (HANGU- 3329.1N 07100.4E) (PESHAWAR-PS)

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

(CHITRAL -3553.2N 07148.0E)
(GERRY-3612.0N 07135.0E)
PADDY- 3628.0N 07138.0E
FIRUZ 3640.0N 07138.0E

(CHITRAL -3553.2N 07148.0E)
(GERRY-3612.0N 07135.0E)
PADDY- 3628.0N 07138.0E
FIRUZ- 3640.0N 07138.0E

P513 BUBAS 245938N 0570003E
GERAR 240600N 0573616E
MIBSI 234139N 0575523E
SEEB (MCT) * Note 7

UP517 WAFRA
GOVAL
KMC

UP555 NUWEIBAA*See Note 3
RASDA 3306.0N 03057.0E
(KAVOS)

P557 NUBAR 220000N
0313806E*SeeNote 6&7
MISUK 290507N 0290621E
KATAB 292501N0290506E

UP557 NUBAR 220000N
0313806E*SeeNote 6&7
MISUK 290507N 0290621E
KATAB 292501N0290506E

P559 (LARNACA)
KUKLA 3414.6N 3444.8E
KHALDEH (KAD)
DAKWE 3338.9N 03555.0E
* Note 4 (OS)
DAMASCUS
TONTU 3148.1N 03811.2E
* Note 3(OS,OJ)

UP559 (LARNACA)
KUKLA 3414.6N 3444.8E
KHALDEH (KAD)
DAKWE 3338.9N 03555.0E
DAMASCUS
TONTU 3148.1N 03811.2E
* Note 3 (OS,OJ)
TURAIF (TRF)
KAVID 3035.9N 04011.8E
TOKLU 2942.1N 04202.4E
RASMO 2857.2N 04331.3E
KMC
MUSKO 2726.7N 04737.1E
KEDAT 2721.8N 04759.0E
JUBAIL (JBL)
ALVON 2700.2N 05007.2E
RATUN 2646.2N 05108.0E

UP567 BIRJAND
ODKAT 3540.6N 05457.2E
DASHT-E-NAZ -3638.7N 05311.4E

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

			(ULDUS -3800.0N 05101.0E)
P570	KITAL 2003N 06018E MIBSI 234139N 0575523E	UP570	TRIVENDRUM VISET1831 12N 06229 64E KITAL 2003N 06018E MIBSI 234139N 0575523E
P571	LABNI 16 620N 0410921E NISMI 162415N 0421838E SANA'A (SAA) RIN	UP571	LABNI 165620N 0410921E NISMI 162415N 0421838E SANA'A (SAA) RIN
		UP574	(BELGAUM) (BISET- 1823.4N 06918.1E) TOTOX 215030N 0622230E * Note 7 (OO) KUSRA 231726N 0585102E MIBSI 234138N 0575525E LUDAL 235023N 0574305E SOLUD 243223N 0564421E GISMO 244743N 0562236E BUBIN 245742N 0560642E KUMUN 254000N 0551512E * Note 7 (KUMUN-PAPAR) PAPAR 264000N 0542700E SHIRAZ ESFAHAN TEHRAN ULDUS
		UP634	LALDO 251806N 0563600E ATBOR 251007N 0551947E
		UP891	MAGALA EGNOV EMILU ASVIR KUWAIT
P899	PARAR 222630N 0630700E *Note 7 (OO,OM) MIBSI 234139N 0575523E PAXIM 240245N 05617631E ITRAX 241248N 0554749E AL AIN (ALN) ABU DHABI	UP899	PARAR 222630N 0630700E*Note 7 (OO,OM) MIBSI 234139N 0575523E PAXIM 240245N 05617631E ITRAX 241248N 0554749E AL AIN (ALN) ABU DHABI

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

UP975 (ELAZIG)*Note7
(DYB) 384225N 0391328E
LESRI 370420N 0411348E
KANOK 3634.0N 04141.0E
SOGUM 341212N 0435454E
ETBOM 332143N 0444813E
NOLDO 324930N 0452130E
PUSMO 304444N 0473547E
SIDAD 295231N 0482944E
LONOS 283414N 0492344E
TESSO 282852N 0492723E
MIXAR 270800N 0503300E
RATUN 264613N 0510759E

**R205 ANARAK
BIRJAND**

**UR205 ANARAK
BIRJAND**

**R219 SHARJAH * Note 7 (OB, OM)
RATUN 2646.2N 05108.0E
KING FAHD * Note 7 (OB)
BOROP 2653 17 N 04852 03E
KEDAT 2721 49N 04759 01E**

**UR219 OTILA 3201.5N 03901.9E*Note 7
MODAD
SOKAN
RAFIF
SULAF
FIRAS**

**R401 AMPEX 0810.0N 05500.0E
SUHIL 1200.0N 05500.0E
KADER 1506.0N 05500.0E
AVAVO 1647.1N 05526.1E
HAIMA
DEMKI 224941N 0562308E
MUSAP241754N 0555245E
GIDIS 243600N 0555600E
RAS AL
DARAX**

**UR401 AMPEX 08 10.0N 055 00.0E
SUHIL 12 00.0N 055 00.0E
KADER 15 06.0N 055 00.0E
AVAVO 16 47.1N 055 26.1E
HAIMA
DEMKI 224941N 0562308E
MUSAP 241754N 0555245E
GIDIS 243600N 0555600E
RAS AL KHAIMAH
DARAX**

**R402 LAKLU 232235N 0570401E
HAIMA (HAI)**

**UR402 LAKLU 232235N 0570401E
HAIMA (HAI)**

**R456 KITAL200300N 0601800E
(MALE)**

**UR456 KITAL200300N 0601800E
(MALE)**

**R462 (JIWANI)
DENDA 2442.5N 06054.8E
VUSET 235540N 0590812E**

**UR462 (JIWANI)
DENDA 2442.5N 06054.8E
VUSET 235540N 0590812E**

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

	MIBSI 234139N 0575523) *Note 7 (OO)		MIBSI 234139N 0575523E *Note 7 (OO)
R650	LUXOR HURGHADA SHARM EL SHEIKH NUWEIBAA NALSO 2932.0N 03453.0E	UR650	LUXOR HURGHADA SHARM EL SHEIKH NUWEIBAA NALSO 2932.0N 03453.0E
R651	TANF SHATRA	UR651	TANF SHATRA
R652	TURAIIF *Note 7(OE) GURIAT QATRANEH AQABA METSА 2930.0N 03500.0E	UR652	TURAIIF *Note 7(OE) GURIAT QATRANEH AQABA METSА 2930.0N 03500.0E
R653	JERUSALEM * Note 4(OJ, OS) RAMTHA DAMASCUS	UR653	JERUSALEM * Note 4(OJ, OS) RAMTHA DAMASCUS
R654	ESFAHAN YAZD KERMАN NABOD 2816.1N 05825.3E CHAH BAHAR (CBH) EGTAL 243458N 0603724E VAXIM 231900N 0611100E	UR654	ESFAHAN YAZD KERMАN NABOD 2816.1N 05825.3E CHAH BAHAR (CBH) EGTAL 243458N 0603724E VAXIM 231900N 0611100E
R655	(LARNACA) CHEKKA KARIATAIN	UR655	(LARNACA) CHEKKA KARIATAIN
R658	SEEB MELMI 2647.0N 05723.0E BANDAR ABBAS	UR658	SEEB MELMI 2647.0N 05723.0E BANDAR ABBAS
R659	SHIRAZ DOHA MARMI 241400N 0511330E MIGMA 225035N 0512749E PURDA 210805N 0510329E ASTIN 200410N 0495320E TULIS 173033N 0462616E ALHAZM 161230N 0444742E	UR659	SHIRAZ DOHA MARMI 241400N 0511330E MIGMA 225035N 0512749E PURDA 210805N 0510329E ASTIN 200410N 0495320E TULIS 173033N 0462616E ALHAZM 161230N 0444742E

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

SANA'A
R660 (ERZERUM)
DASIS 38 54.5N 044 12.5E
TABRIZ
RASHT
TEHRAN

R661 DULAV 3857.0N 04537.9E
TABRIZ
ZANJAN
RUDESHUR
VARAMIN
DEHNAMAK

R775 LUXOR (LXR) 254458N 0324607E
DEDLI 2242 32N 03737 19E
KING ABDULAZIZ
DANAK 1608.0N 04129.0E
(ASSAB)

R777 DANAK 1608.0N 04129.0E
SANA'A
TAIZ
ARABO 1238.8N 04404.0E
TORBA 1210.6N 04402.1E

R784 SHARJAH
ORSAR2604.5N 05357.5E
DURSI 2712.3N 05201.7E
IMDAT 2740.0N 05113.0E
ALNIN 2840.9N 05001.6E
NANPI 2905.0N 04932.0E
SIDAD 2952.5N 04829.7E
PUSMO 304444N 0473547E
ALVET 313500N 0471500E
ITSOP 330422N 0454208E
GONSI 332622N 0451837E
SIGNI 340006N 0444200E
RAMPI 351642N 0435618E
KATOT 360000N 0432700E
KABAN 3715.0N 04239.0E
(SIIRT)

SANA'A
UR660 RASHT
TEHRAN

UR661 DULAV 3857.0N 04537.9E
TABRIZ
ZANJAN
RUDESHUR
VARAMIN
DEHNAMAK

UR775 KING ABDULAZIZ
DANAK 1608.0N 04129.0E
(ASSAB)

UR777 DANAK 1608.0N 04129.0E
SANA'A
TAIZ
ARABO 1238.8N 04404.0E
TORBA 1210.6N 04402.1E

UR784 SHARJAH
ORSAR 2604.5N 05357.5E
DURSI 2712.3N 05201.7 E
IMDAT 2740.0N 05113.0E
ALNIN 2840.9N 05001.6E
NANPI 2905.0N 04932.0E
SIDAD 2952.5N 04829.7E
PUSMO 304444N 0473547E
ALVET 313500N 0471500E
ITSOP 330422N 0454208E
GONSI 332622N 0451837E
SIGNI 340006N 0444200E
RAMPI 351642N 0435618E
KATOT 360000N 0432700E
KABAN 3715.0N 04239.0E
(SIIRT)

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
LOWER AIRSPACE	

Designation Désignation Designación	Significant points Points significatifs Puntos significativos
1	2
UPPER AIRSPACE	

**R785 TURAIF
ZELAF 3257.0N 03800.0E
KARIATAIN
BANIAS
NIKAS 3511.6N 03543.0E**

**UR785 TURAIF
ZELAF 3257.0N 03800.0E
KARIATAIN
BANIAS
NIKAS 3511.6N 03543.0E**

**R794 ULDUZ 3810.0N 05020.0E
NOSHAHR
DEHNAMAK
TABAS
BIRJAND * Note 5 (OI)**

**UR794 ULDUZ 3810.0N 05020.0E
NOSHAHR
DEHNAMAK
TABAS
BIRJAND * Note 5 (OI)**

**R799 SILPA 184953N0510158E
PATAP 152744N 0532929.5E**

**UR799 SILPA 184953N0510158E
PATAP 152744N 0532929.5E**

SURVEY ON MULTIPLE REPETITIONS AND NON-RECEIPT OF ATS MESSAGES

Centre: Cairo Control Centre

Period: 0001 GMT 9/12/2005 Till 2359 GMT 9/12/2005

Incidents due to non-receipt of FPL	ATS messages received ----- Number of Controlled flights	ATS messages received once	ATS messages received more than once	Received ATS messages related to flights not entering FIR	Involved Centres
13	23712 Against 19385	Not reported	Not reported	Not reported	Cairo ACC

Remarks:

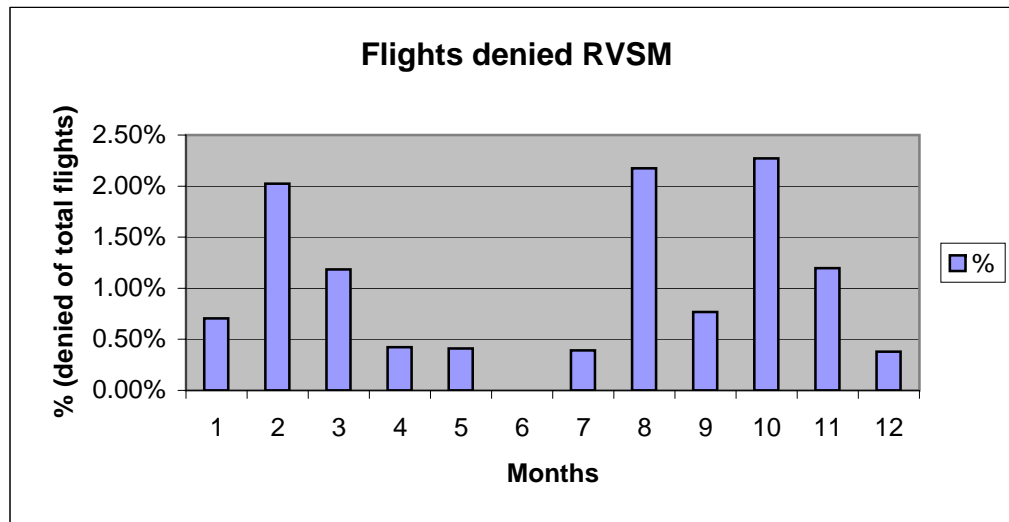
MID RVSM TF/12
 Appendix 4C to the Report on Agenda Item 4

**Statistics of flights originating from Beirut FIR
 and denied entry into UAE RVSM airspace**

Month	Total Flts from FIR	Denied RVSM	%
January 2005	284	2	0.70%
February 2005	247	5	2.02%
March 2005	253	3	1.19%
April 2005	237	1	0.42%
May 2005	243	1	0.41%
June 2005	240		
July 2005	256	1	0.39%
August 2005	276	6	2.17%
September 2005	261	2	0.77%
October 2005	220	5	2.27%
November 2005	251	3	1.20%
December 2005	263	1	0.38%

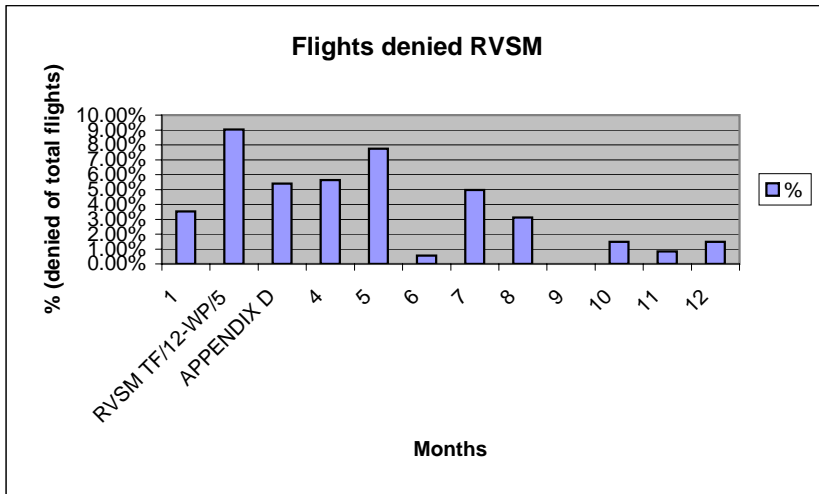
From 26 April 2005, when investigation of individual cases began and until 31 December 2005 a total of 19 flights originating from Beirut FIR were denied entry into UAE RVSM airspace. Requests for follow-up were sent to Lebanon and based on replies received the investigation results are summarised below:

No "W" in FPL	
Incorrect details (FPL/estimate mismatch)	3
FPL not transmitted/No evidence of TX	5
FPL not addressed to OMAEZRX	5
FPL received too late for processing by ATC	
FPL recived late & given RVSM FL	
FPL delayed en-route	
CNL message received for FPL	1
Thru FPL omitted OMAE address	
AFTN switch failure at origin	
AFTN switch failure en-route	
Operators banned from UAE RVSM airspace	
Nil response	4
Handling error by Emirates ACC	1
Total	19



**Statistics of flights originating from Damascus FIR
and denied entry into UAE RVSM airspace**

Month	Total Flts from FIR	Denied RVSM	%
January 2005	142	5	3.52%
February 2005	133	12	9.02%
March 2005	148	8	5.41%
April 2005	142	8	5.63%
May 2005	142	11	7.75%
June 2005	179	1	0.56%
July 2005	181	9	4.97%
August 2005	193	6	3.11%
September 2005	162	0	0.00%
October 2005	135	2	1.48%
November 2005	120	1	0.83%
December 2005	135	2	1.48%



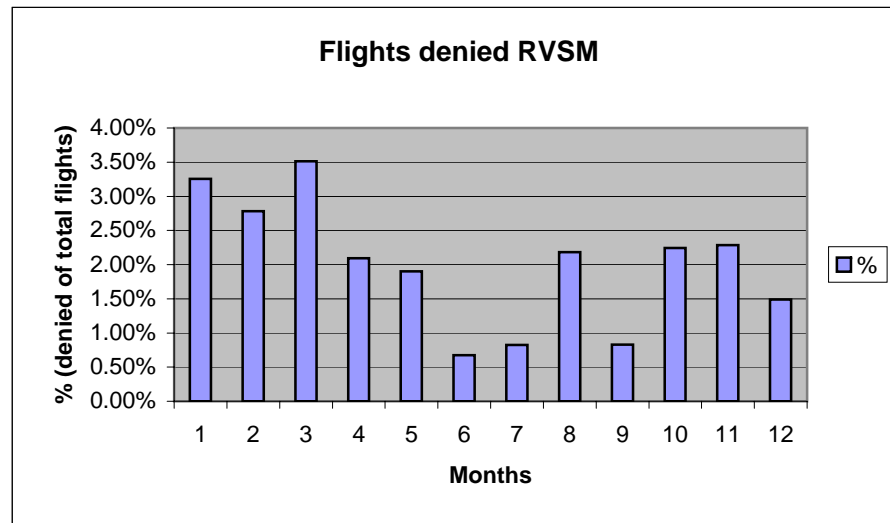
From 4 May 2005, when investigation of individual cases began and until 31 December 2005 a total of 32 flights originating from Damascus FIR were denied entry into UAE RVSM airspace. Requests for follow-up were sent to Syria and based on replies received the investigation results are summarised below:

No "W" in FPL	
Incorrect details (FPL/estimate mismatch)	1
FPL not transmitted/No evidence of TX	
FPL not addressed to OMAEZRZX	11
FPL received too late for processing by ATC	
FPL recived late & given RVSM FL	
FPL delayed en-route	1
CNL message received for FPL	
Thru FPL omitted OMAE address	
AFTN switch failure at origin	
AFTN switch failure en-route	
Operators banned from UAE RVSM airspace	
Nil response	19
Handling error by Emirates ACC	
Total	32

4C-3

**Statistics of flights originating from Kuwait FIR
and denied entry into UAE RVSM airspace**

Month	Total Flts from FIR	Denied RVSM	%
January 2005	645	21	3.26%
February 2005	611	17	2.78%
March 2005	626	22	3.51%
April 2005	669	14	2.09%
May 2005	737	14	1.90%
June 2005	741	5	0.67%
July 2005	727	6	0.83%
August 2005	733	16	2.18%
September 2005	724	6	0.83%
October 2005	669	15	2.24%
November 2005	744	17	2.28%
December 2005	739	11	1.49%

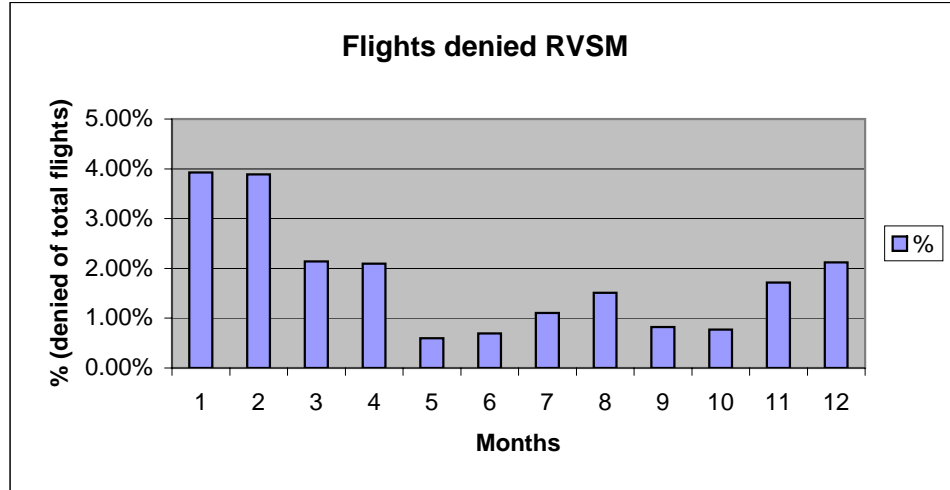


From 8 April 2005, when investigation of individual cases began and until 31 December 2005 a total of 104 flights originating from Kuwait FIR were denied entry into UAE RVSM airspace. Requests for follow-up were sent to Kuwait and based on replies received the investigation results are summarised below:

No "W" in FPL	2
Incorrect details (FPL/estimate mismatch)	5
FPL not transmitted/No evidence of TX	5
FPL not addressed to OMAEZRZX	6
FPL received too late for processing by ATC	2
FPL recived late & given RVSM FL	1
FPL delayed en-route	7
CNL message received for FPL	1
Thru FPL omitted OMAE address	22
AFTN switch failure at origin	7
AFTN switch failure en-route	4
Operators banned from UAE RVSM airspace	4
Nil response	37
Handling error by Emirates ACC	1
Total	104

**Statistics of flights originating from Jeddah FIR
and denied entry into UAE RVSM airspace**

Month	Total Flts from FIR	Denied RVSM	%
January 2005	1682	66	3.92%
February 2005	1543	60	3.89%
March 2005	1168	25	2.14%
April 2005	1147	24	2.09%
May 2005	1172	7	0.60%
June 2005	1157	8	0.69%
July 2005	1176	13	1.11%
August 2005	1191	18	1.51%
September 2005	1216	10	0.82%
October 2005	1301	10	0.77%
November 2005	1282	22	1.72%
December 2005	1934	41	2.12%



From 2 April 2005, when investigation of individual cases began and until 31 December 2005 a total of 153 flights originating from Jeddah FIR were denied entry into UAE RVSM airspace. Requests for follow-up were sent to Saudi Arabia and based on replies received the investigation results are summarised below:

No "W" in FPL	44
Incorrect details (FPL/estimate mismatch)	7
FPL not transmitted/No evidence of TX	5
FPL not addressed to OMAEZRZX	7
FPL received too late for processing by ATC	7
FPL recived late & given RVSM FL	10
FPL delayed en-route	1
CNL message received for FPL	5
Thru FPL omitted OMAE address	12
AFTN switch failure at origin	10
AFTN switch failure en-route	
Operators banned from UAE RVSM airspace	28
Nil response	13
Handling error by Emirates ACC	4
Total	153

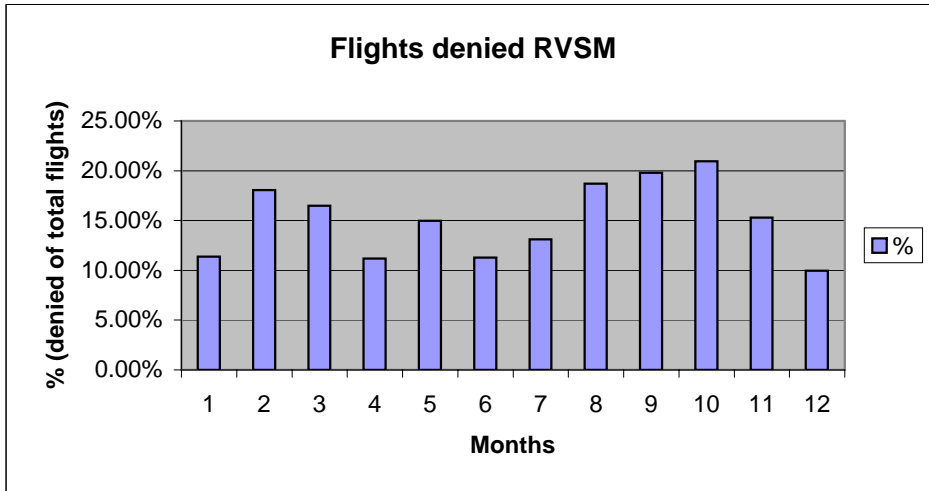
**Statistics of flights originating from Baghdad FIR
and denied entry into UAE RVSM airspace**

Month	Total Flts from FIR	Denied RVSM	%
January 2005	413	47	11.38%
February 2005	277	50	18.05%
March 2005	297	49	16.50%
April 2005	304	34	11.18%
May 2005	307	46	14.98%
June 2005	266	30	11.28%
July 2005	290	38	13.10%
August 2005	310	58	18.71%
September 2005	313	62	19.81%
October 2005	315	66	20.95%
November 2005	307	47	15.31%
December 2005	351	35	9.97%

From 3 May 2005, when investigation of individual cases began and until 31 December 2005 a total of 382 flights originating from Baghdad FIR were denied entry into UAE RVSM airspace. Requests for follow-up were sent to Iraq and based on replies received the investigation results are summarised below:

No "W" in FPL	9
---------------	---

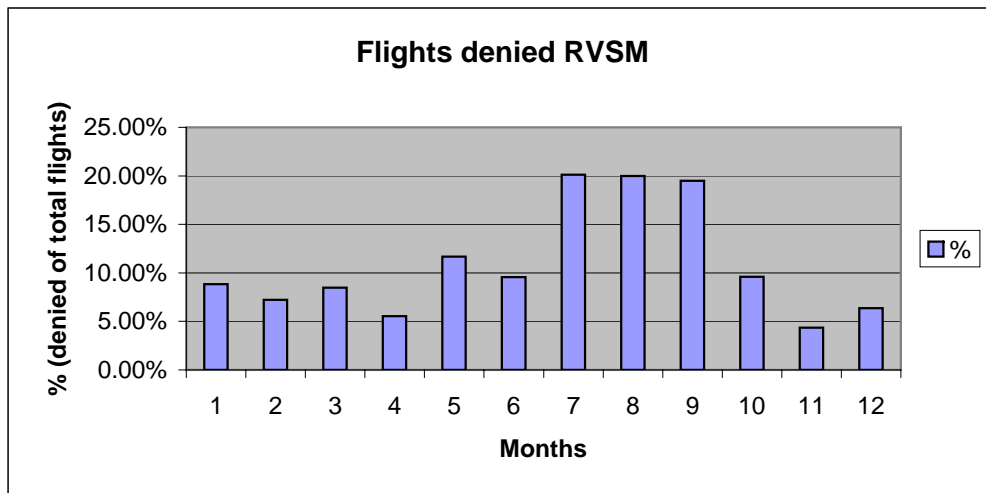
As majority of the flights operating into Baghdad FIR are in and out of Dubai Intl Airport, the GCAA requested Dubai DCA to address FPLs for both legs of flight (outbound and inbound) to the Emirates ACC. This measure was taken in November 2005 and since there has been a drop in cases where flights originating from Baghdad FIR were denied access to UAE RVSM airspace.



**Statistics of flights originating from Khartoum FIR
and denied entry into UAE RVSM airspace**

Month	Total Flts from FIR	Denied RVSM	%
January 2005	113	10	8.85%
February 2005	97	7	7.22%
March 2005	106	9	8.49%
April 2005	90	5	5.56%
May 2005	120	14	11.67%
June 2005	136	13	9.56%
July 2005	154	31	20.13%
August 2005	125	25	20.00%
September 2005	159	31	19.50%
October 2005	125	12	9.60%
November 2005	115	5	4.35%
December 2005	126	8	6.35%

From 3 May 2005, when investigation of individual cases began and until 31 December 2005 a total of 139 flights originating from Khartoum FIR were denied entry into UAE RVSM airspace. Requests for follow-up were sent to Sudan and based on replies received the investigation results are summarised below:



No "W" in FPL	6
Incorrect details (FPL/estimate mismatch)	1
FPL not transmitted/No evidence of TX	2
FPL not addressed to OMAEZRX	11
FPL received too late for processing by ATC	
FPL recived late & given RVSM FL	
FPL delayed en-route	
CNL message received for FPL	
Thru FPL omitted OMAE address	
AFTN switch failure at origin	5
AFTN switch failure en-route	
Operators banned from UAE RVSM airspace	12
Nil response	102
Handling error by Emirates ACC	
Total	139

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Appendix 4D to the Report on Agenda Item 4

OEJD JEDDAH

A0216/06 NOTAMN

Q) OEJD/QXXXX/IV/NBC/AE/000/999/

A) OEJD B)0602261005 C)PERM

E) WITHIN THE KINGDOM OF SAUDI ARABIA THE USE OF REPETITIVE FLIGHT PLANS (RPL) IS AS FOLLOWS:

A)FOR DOMESTIC FLIGHTS AS AGREED BETWEEN THE OPERATOR AND GACA,AND.

B)FOR INTERNATIONAL FLIGHTS DEPARTING KSA AERODROMES ONLY WHERE THERE IS AN AGREEMENT BETWEEN THE OPERATOR AND THE ATS UNIT INVOLVED AND RPL DATA IN PAPER OR ELECTRONIC FORMAT IS PROVIDED TOGETHER WITH A HARDCOPY BACK-UP IN ICAO FPL FORMAT. KSA AIP GEN 1.7-5 WILL BE AMENDED ACCORDINGLY.

C)RPL IS NOT USED OR CONSIDERED FOR NBOUND OR OVERFLYING SAUDI ARABIAN AIRSPACE.

A0215/06 NOTAMN

Q) OEJD/QXXXX/IV/NB/AE/000/999/

A) OEJD B) 0602261100 C) PERM

E) DUE TO SYSTEM REQUIRMENTS FLIGHT INBOUND TO OR OVER FLYING SAUDI AIRSPEACE WITH NO FLIGHT PLAN (FPL) ARE SUBJECT TO BE HELD AT THE BOUNDARY OR DENIED ACCESS TO HE AIR SPACE UNTIL FPL IS RECEIVED.

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Appendix 4E to the Report on Agenda Item 4

Missing Flight Plans Form

**Dammam King Fahad Intl. Airport
From April 1 to April 15, 2006**

Date	Flight Number	Dep. Point	Destination	RQP Time	FPL Rcvd Time	Request From	Remarks
02/04/2006	MON4502	EGCC	OBBI	0003	0004		
06/04/2006	MON6516	EGCC	OBBI	17:44	17:44		
07/04/2006	MON6382	EGCC	OBBI	21:43	21:45		
13/04/2006	MON6516	EGCC	OBBI	17:51	17:53		
07/04/2006	DSR605	EGKK	OBBI	02:00	02:00		
14/04/2006	DSR605	EGKK	OBBI	1558	1559		
06/04/2006	BAW125	EGLL	OBBI	14:48	14:48		
13/04/2006	GFA716	FAJS	OBBI	1603	1607		
11/04/2006	GFA716	FJAS	OBBI	16:25	NIL		
02/04/2006	FLASH26	HDAM	OTBH	09:16	NIL		
03/04/2006	JA188	HDAM	OBBI	07:08	NIL		
07/04/2006	ATILA34	HDAM	OBBI	15:00	NIL		
08/04/2006	FLASH10	HDAM	OBBI	20:13	NIL		
10/04/2006	CTM1197	HDAM	OTBH	08:15	NIL		
10/04/2006	FLASH26	HDAM	OBBI	12:58	NIL		
12/04/2006	ATILA35	HDAM	OBBI	1042	NIL		
14/04/2006	ATILA34	HDAM	OBBI	1208	NIL		
07/04/2006	VPBAA	HEBA	OEDF	20:30	20:32		
04/04/2006	IFC303	HECA	OOMS	09:06	NIL		

MID RVSM TF/12-REPORT
APPENDIX 4E

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Date	Flight Number	Dep. Point	Destination	RQP Time	FPL Rcvd Time	Request From	Remarks
08/04/2006	BXA088	HECA	OBBI	15:50	NIL		
08/04/2006	HBKOL	HEGN	OBBI	09:14	09:24		
07/04/2006	QTR533	HKJK	OTBD	17:25	NIL		
11/04/2006	GFA942	LCLK	OBBI	14:02	NIL		
14/04/2006	TUAF002	LTAD	OBBI	10:14	NIL		
12/04/2006	GFA044	LTBA	OBBI	1528	1534		
05/04/2006	SVA527	OBBI	OEMA	08:27	08:38		
08/04/2006	HZMF2	OBBI	OERK	02:37	NIL		
01/04/2006	SVA782	OEDF	VCBI	2321	2322		
07/04/2006	UAF2255	OEGS	OMAL	13:19	NIL		
12/04/2006	HZMF2	OEHL	OEDF	0747	NIL		
02/04/2006	SVA714	OEJN	OEDF	07:35	NIL		
06/04/2006	RSF409	OEJN	OEDR	06:37	NIL		
07/04/2006	RSF1642	OEKM	OEDR	20:11	NIL		
03/04/2006	FLASH27	OERK	OBBI	0709	NIL		
04/04/2006	HZSNC	OERK	OBBI	19:29	NIL		
08/04/2006	SVA520	OERK	OBBI	12:18	NIL		
08/04/2006	N759A	OERK	OEDF	1502	NIL		
03/04/2006	HELAL30	OETB	OEDF	07:40	NIL		
01/04/2006	RJA608	OJAI	OBBI	16:31	NIL		
03/04/2006	RJA600	OJAI	OEDF	19:13	NIL		
03/04/2006	RJA608	OJAI	OBBI	1957	NIL		
14/04/2006	RJZ352	OJAM	OBBS	06:46	NIL		
12/04/2006	BA44	OLBA	OBBI	17:34	17:37		
05/04/2006	UAF2255	OMAL	OEDF	04:49	NIL		
12/04/2006	FAHAAD75	OMAM	OEDR	1044	NIL		
12/04/2006	RSF4044	OMAM	OEDR	1211	NIL		
13/04/2006	RSF8243	OMAM	OEDR	19:33	19:55		
05/04/2006	RJA346	OPRN	OJAM	10:31	NIL		

4E-3

Date	Flight Number	Dep. Point	Destination	RQP Time	FPL Rcvd Time	Request From	Remarks
13/04/2006	PIA245	OPRN	OEDF	22:00	NIL		
07/04/2006	RSF354	OPSF	OEPS	12:15	NIL		
11/04/2006	SYR511	OSDI	OEDF	20:36	NIL		
12/04/2006	GFA904	OSDI	OBBI	00:55	NIL		
12/04/2006	SYR527	OSDI	OEDF	1527	23:01		
14/04/2006	GFA902	OSDI	OBBI	13:16	NIL		
14/04/2006	SYR511	OSDI	OEDF	16:30	NIL		
12/04/2006	MON804	OTBD	HDAM	1604	1611		
13/04/2006	RJA608	RJAI	OBBI	2306	NIL		
02/04/2006	SVA863	RPLL	OEDF	11:52	NIL		
04/04/2006	SVA867	RPLL	OEDF	14:50	NIL		
05/04/2006	AIC811	VABB	OEDF	21:48	NIL		

**METHODOLOGY FOR THE IDENTIFICATION OF CAUSES OF IMPROPER HANDLING
OF FPLS AND ASSOCIATED ATS MESSAGES**

For a period of at least one month, MID States should carry out a survey to identify (by origin):

- a) The total number of flights.
- b) The number of incidents where a FPL has not been received (FPL not transmitted, incorrect address, AFTN switch failure at origin, AFTN switch failure en-route, handling error).
- c) The number of incidents where a FPL has been received but the letter "W" was missing.
- d) The number of incidents where a FPL has been received but with incorrect details (FPL/estimate mismatch).
- e) The number of incidents where a FPL has been received late.
- f) The number of incidents where a CNL message was received for the FPL.
- g) Incident related to the handling of FPL due to any other cause.

To carry out the survey, States have to handle the here-above mentioned incidents as follows:

- a) each incident has to be recorded in a specific log file;
- b) the incident is investigated and the log is annotated with reasons, if available;
- c) a fax is sent to the Civil Aviation Authority at the point of departure of the flight, requesting for investigation of the problem;
- d) the log file is updated based on the received reply; and
- e) each originating State is informed of the findings with copy to the ICAO MID Regional Office in order to facilitate follow-up action.

Having completed the above, the data gathered from the survey should be analysed to determine the major causes related to the improper handling of FPLs and associated ATS messages.

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Report on Agenda Item 5

REPORT ON AGENDA ITEM 5: IMPLEMENTATION OF RVSM WITHIN BAGHDAD AND KABUL FIRS

5.1 Under this agenda item, the meeting recalled that RVSM has been successfully implemented in eleven (11) MID Region FIRs since 27 November 2003. However, RVSM is not yet implemented in Baghdad, Kabul and Tel-Aviv FIRs.

5.2 The meeting recalled also that the RVSM Task Force was charged with the responsibility for the planning for the safe implementation of RVSM in the MID Region. It was underlined that the RVSM TF/11 meeting pointed out that, unless a mechanism is established for carrying out the safety assessments for ensuring the safe implementation of RVSM within Baghdad and Kabul FIRs, the subject was considered outside the purview of the Task Force. Accordingly, it was proposed that request for assistance could be extended to FAA and EUROCONTROL for carrying out the safety assessments.

5.3 Bearing in mind that RVSM is implemented in the Asia Pacific and European Regions as well as in the big majority of the MID Region, the meeting recognized that Baghdad and Kabul FIRs represent actually isolated islands where RVSM is not implemented. With the increase in the number of the overflying traffic, the meeting agreed that preparation for the implementation of RVSM in these two FIRs is becoming more and more urgent.

5.4 The application of RVSM within Baghdad and Kabul FIRs represent a change of major significance to the operational environments of those ACCs/UACs involved. The meeting stressed out that careful planning in advance of the implementation of RVSM will ensure that benefits in terms of capacity and operating efficiency are optimized, and that controllers will be able to successfully cope with the magnitude of the change to their operational environments, thereby ensuring continued levels of safety.

5.5 The meeting confirmed that planning for RVSM implementation would require the active participation of experts in airworthiness, flight operations, air traffic management, safety assessment and height monitoring. The tasks could broadly be divided into the following groups:

- a) the RVSM approval process;
- b) determination of the extent of RVSM airspace (both geographical and vertical)
- c) ATM operational policies and procedures
- d) safety analysis; and
- e) height monitoring.

5.6 The meeting emphasized that the safety of air navigation has to be given the highest priority in the development of the RVSM operational concept and the implementation Program. Therefore, the implementation of RVSM shall not adversely affect the safety of air navigation.

5.7 The meeting highlighted that it would not be possible at this early stage of planning for implementation of RVSM in Baghdad and Kabul FIRs to identify all the tasks which would need to be undertaken. However, it is important to identify those tasks which would require consideration by concerned States. In this regard and in accordance with ICAO Doc 9574, the following factors, where applicable, should be considered in the process of reaching a decision to implement RVSM:

- a) the proportion of the aircraft population that have been equipped to meet existing requirements for RVSM operations;
- b) airspace organization: route structure (bi/unidirectional and crossing) and designated military airspace;

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Report on Agenda Item 5

- c) ATC system;
- d) flow control procedures;
- e) availability of adequate communications infrastructure;
- f) radar/procedural control;
- g) availability of secondary surveillance radar (SSR) or other means of altitude reporting capability; and
- h) other airspace constraints.

5.8 Additional consideration should be given to the ability of the ATS infrastructure to fully support RVSM, including examination of the equipment and procedures necessary to achieve the goal of the elimination of operational errors.

5.9 The meeting further highlighted the following tasks which would require consideration by concerned States when deciding to start the planning process for the implementation of RVSM:

- a) nomination of an RVSM Programme Manager who will be responsible for ensuring that proper mechanism is put in place for the safe implementation of RVSM and will also act as focal point/person;
- b) in order to provide the assurance that the safety objectives are met, an RVSM Pre-Implementation Safety Case (PISC) has to be prepared. The main deliverables of the PISC are the Functional Hazard Assessment (FHA), the Collision Risk Assessment (CRA) and the National Safety Plan;
- c) preparation of the RVSM implementation preliminary readiness safety assessment;
- d) carry out the necessary amendments to the legislation and regulations required for RVSM implementation;
- e) develop a training programme including all personnel involved in the implementation of RVSM (Afghanistan and Iraq to use the training guidelines developed within the framework of the RVSM Task Force during the planning phase for the implementation of RVSM in the MID Region); and
- f) assessment of the impact of RVSM implementation on the ATC systems and upgrade of these systems as required (this has to be done well in advance to allow for on the job training (OJT) to be carried out as well as simulations to assess ATC workload and possible need for airspace/air route/Sectors changes).

5.10 Interface issues are also to be considered carefully when planning for the implementation of RVSM. In this regard the meeting recalled that RVSM is not yet implemented in Turkmenistan. Although, the level of readiness of Turkmenistan was found adequate and covered all required aspects, including inter-alia, training and safety assessment, Turkmenistan emphasized that a go-ahead decision could be taken only after several pre-requisites would be fulfilled. The main pre-requisite consisted in improving the availability of the connecting ATS routes to/from Afghanistan (i.e. increased number of flight levels and extended hours of operation). Turkmenistan has requested ICAO's assistance in the coordination of the required negotiation process with appropriate authorities in Afghanistan.

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Report on Agenda Item 5

5.11 The meeting then underlined that the above is not an exhaustive list of the tasks to be carried out within an RVSM implementation programme. However, it highlights some important milestones for the safe implementation of RVSM. A detailed RVSM implementation requirements checklist has to be developed within the framework of the programme for implementation of RVSM within Baghdad and Kabul FIRs. Further details pertaining to the RVSM implementation planning and strategy are contained in the ICAO Doc 9574 as well as the guidance materials developed within the framework of the RVSM Task Force.

5.12 Bearing in mind the above, the meeting noted with concern the difficulties Afghanistan and Iraq are facing to set up an appropriate independent (national) ATC system. The main problems are related to the communication infrastructure, the availability and training of the air traffic controllers and the uncoordinated military activities. The meeting noted that implementation of RVSM within Baghdad FIR is not a priority at present since the pre-requisites for this are not met/available. Afghanistan mentioned that, based on the current airspace and ATC structure, a two-year period is reasonable to meet the ICAO requirements to go ahead with the RVSM implementation.

5.13 Based on the above, the meeting reiterated the statement of the RVSM TF/11 meeting and considered that the subject is still outside of the purview of the Task Force. However, concerned States could request the assistance of the Task Force when they consider that they are ready, that all the pre-requisites are fulfilled/met with the commitment to go ahead with RVSM implementation.

5.14 It was highlighted that Afghanistan and Iraq could request the assistance of the ICAO Technical Co-operation Bureau in order to set up their ATC system with a view to prepare the RVSM implementation.

5.15 The meeting also pointed out that Afghanistan and Iraq, in any project/plan of acquisition of new ATC equipments or training of their Air Traffic Controllers, they have to take into consideration the RVSM requirements.

5.16 Iraq and Afghanistan were invited to continuously attend the ICAO meetings to keep pace with the new developments. They were also invited to frequently visit the ICAO MID website at: www.icao.int/mid where the reports of all previous meetings are posted.

MID RVSM TF/12
Report on Agenda Item 6

REPORT ON AGENDA ITEM 6: ANY OTHER BUSINESS***Uncoordinated flights over the Red Sea Area***

6.1 Based on information presented by Saudi Arabia, the meeting noted that the issue of uncoordinated flights over the Red Sea area constitutes one of the agenda items which will be addressed by the Special Civil/Military Coordination meeting to be held in Sana'a, Yemen 18-19 June 2006. Accordingly, the meeting was of the opinion that this subject be referred to the Special Civil/Military Coordination meeting and invited Saudi Arabia to present a working paper on the issue for that meeting.

Future Work Programme

6.2 The meeting recalled that the RVSM Task Force has been established by MIDANPIRG/6 under Conclusion 6/9 and that its terms of reference (TOR) have not been updated since then.

6.3 After the successful and safe implementation of RVSM in the MID Region, the Work Programme of the RVSM Task Force has been almost completed. However, RVSM post-implementation issues and planning for the implementation of RVSM in Baghdad and Kabul FIRs are still open issues which should be included in the Work Programme of the Task Force.

6.4 Based on the above the meeting reviewed and updated its TOR as at **Appendix 6A** to the report on Agenda Item 6 and developed the following Draft Decision, accordingly:

DRAFT DECISION 12/5: REVISED TERMS OF REFERENCE OF THE RVSM TASK FORCE

*That, the Terms of Reference of the RVSM Task Force be updated as at **Appendix 6A** to the report on Agenda Item 6.*

6.5 Based on its Terms of Reference, the Task Force agreed that the date of its next meeting (RVSM TF/13) will be coordinated between the ICAO MID Regional Office and the Chairman of the Task Force, as appropriate.

MIDDLE EAST RVSM TASK FORCE (RVSM TF)

TERMS OF REFERENCE

(May 2006)

1. Address RVSM post-implementation issues.
2. Ensure that data is provided to the MID RMA as required with a view to carry out its duties and responsibilities.
3. Follow-up of the MID RMA operation.
4. Consider interface issues related to RVSM implementation and operations with the adjacent Regions.
5. Assist Afghanistan and Iraq in the development of a comprehensive RVSM implementation plan.
6. Monitor and coordinate with Afghanistan and Iraq the implementation of RVSM programme within Baghdad and Kabul FIRs.
7. Address any other matters, as appropriate, which are relevant to the implementation of RVSM.

MID RVSM TF/12
 Attachment A to the Report

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