

MID AIR NAVIGATION PLAN

VOLUME II

MID AIR NAVIGATION PLAN

VOLUME II

RECORD OF AMENDMENTS

This version of the ICAO MID Air Navigation Plan (Doc 9708), MID eANP - Volume II includes the following approved amendment(s):

PfA Serial No.	Originator	Brief description	Date Approved	Date Entered
MID-II-16/01-ATM	Egypt and Jordan	Amendment of Table ATM II-MID-1	11 Oct 2016	28 Aug 2017
MID-II 17/01-AOP-CNS	Egypt, Jordan, Sudan, UAE and the CNS SG	Amendment of Tables AOP II-1 and CNS II-1	28 Aug 2017	28 Aug 2017
MID-II-22/01-ATM	MIDANPIRG/19, (Riyadh, Saudi Arabia, 14 – 17 February 2022)	Amendment of Table ATM II-MID-1	2 June 2022	6 Nov 2023

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MID ANP, VOLUME II
PART 0 – INTRODUCTION

1. GENERAL

1.1 The background to the publication of ANPs in three volumes is explained in the Introduction in Volume I. The procedure for amendment of Volume II is also described in Volume I.

1.2 Volume II contains dynamic plan elements related to:

- a) the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services; and
- b) the mandatory requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.3 Volume II does not list all facilities in the region but only those required for international civil aviation operations in accordance with regional air navigation agreements. A regional air navigation agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified. Documents from the Integrated Aeronautical Information Package and other publications should be consulted for information on additional facilities and for operational information in general. Detailed guidance material or concepts, complementary to the material in Volumes I, II and III are contained in documents that are referenced as MID Documents.

2. MANAGEMENT OF REGIONAL AIR NAVIGATION PLANS

2.1 The elements in Volume II are reviewed by the MIDANPIRG in accordance with its schedule of meetings, in consultation with provider and user States, and with the assistance of the ICAO MID Regional Office.

2.2 The information on States' facilities and services included in Volume II, should be updated following the process of regional air navigation agreements.

2.3 The development and maintenance of region-specific documents that provide detailed guidance material or concepts that are complementary to the material in Volumes I, II and III is the responsibility of the MIDANPIRG.



MID ANP, VOLUME II

PART I – GENERAL PLANNING ASPECTS (GEN)

1. INTRODUCTION

1.1. The material in this part of Volume II of ANP is applicable to one or more parts of the ANP. It should be taken into consideration in the overall planning process for the MID Region.

2. GENERAL REGIONAL REQUIREMENTS

2.1. To facilitate air navigation systems planning and implementation, homogenous ATM areas and/or major traffic flows/routing areas have been defined for the Region. While these areas of routing do not encompass all movements in the Region, they include the major routes. This includes the domestic flights in that particular area of routing.

Homogeneous ATM area

2.2. A homogeneous ATM area is an airspace with a common ATM interest, based on similar characteristics of traffic density, complexity, air navigation system infrastructure requirements or other specified considerations. In such an ATM area a common detailed plan will foster the implementation of interoperable ATM systems. Homogeneous ATM areas may extend over States, specific portions of States, or groupings of States. They may also extend over large oceanic and continental areas. They are considered areas of shared interest and requirements.

2.3. The method of identifying homogeneous ATM areas involves consideration of the varying degrees of complexity and diversity of the worldwide air navigation infrastructure. Based on these considerations, planning could best be achieved at the global level if it was organized based on ATM areas of common requirements and interest, taking into account traffic density and the level of sophistication required.

Major traffic flows/routing areas

2.4. A major traffic flow refers to a concentration of significant volumes of air traffic on the same or proximate flight trajectories. Major traffic flows may cross several homogeneous ATM areas with different characteristics.

2.5. A routing area encompasses one or more major traffic flows, defined for the purpose of developing a detailed plan for the implementation of ATM systems and procedures. A routing area may cross several homogeneous ATM areas with different characteristics. A routing area specifies common interests and requirements of underlying homogeneous areas, for which a detailed plan for the implementation of ATM systems and procedures either for airspace or aircraft will be specified.

2.6. The homogeneous ATM areas and major traffic flows/routing areas identified are given in **Table GEN II-1**.

TABLE GEN II-1 - HOMOGENEOUS ATM AREAS AND/OR MAJOR TRAFFIC FLOWS IDENTIFIED IN THE MID REGION

EXPLANATION OF TABLE

Column

1	Area of routing (AR)	Sequential number of area of routing
2	Homogeneous Areas and/or Traffic flows/routing areas	Brief description and/or name
3	FIRs involved	List of FIRs concerned
4	Type of area covered	Brief description of type of area, examples: Oceanic or Continental High or low density Oceanic en-route or Continental en-route
5	Remarks	Homogeneous ATM Area and/or Major Traffic Flow and Region(s) concerned

Area of routing (AR)	Homogeneous Areas and/or Traffic flows/routing areas	FIRs involved	Type of area covered	Remarks
1	2	3	4	5
AR1	Asia and Europe, Asia and the Middle East, Europe and the Middle East, via the northern Arabian Peninsula and Eastern Mediterranean	Amman, Bahrain, Beirut, Damascus, Emirates, Jeddah, Kuwait, Muscat	Continental high density	Mainly intraregional and MID to/from ASIA and EUR. Some overflying EUR/ASIA traffic
AR2	Libya, Egypt and the southern Arabian Peninsula to/from Europe, Africa, Asia and North Africa	Bahrain, Cairo, Emirates, Jeddah, Muscat, Sana'a, Tripoli	Remote continental and oceanic low density (but seasonally high density)	Major traffic flow mainly landing and departing the MID region. Some EUR/AFI traffic and North Africa
AR3	Asia and Europe, Asia and the Middle East, Europe and the Middle East, north of the Gulf	Emirates, Teheran	Continental high density	Major traffic flow ASIA/EUR
AR4	Gulf, Asia (Indian subcontinent) to/from North of Europe	Baghdad, Bahrain, Emirates, Kuwait, Muscat	Continental high density	MID to/from Asia and EUR
AR5	Gulf Area to/from Eastern, Central and West Africa	Bahrain, Emirates, Jeddah, Khartoum, Muscat	Continental low density (Seasonal high density)	Traffic flow Intraregional. Seasonal pilgrim flights to/from, East, Central, and West AFI

MID ANP, VOLUME II

PART II – AERODROMES / AERODROME OPERATIONS (AOP)

1. INTRODUCTION

1.1 This part of the MID ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to aerodrome design and operations (AOP). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of AOP facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to AOP facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 **Table AOP II-1** contains the list of facilities and services to be provided by the State concerned at each aerodrome that is listed in **Table AOP I-1** in Volume I. Table AOP II-1 shows the operational requirements at each aerodrome to be considered in planning the facilities and services for safe and efficient aircraft operations.

Visual aids for low visibility aerodrome operations

2.2 At aerodromes where there is a requirement to conduct low visibility operations, the appropriate visual and non-visual aids should be provided.

Non-precision approach aids

2.3 Where required by the topographic and/or environmental situation of an aerodrome, improved track guidance during departure and/or approach by specific non-visual and/or visual aids should be provided even if such aids would not normally be required in accordance with the SARPs.

Reduced runway declared distances for take-off

Note. — In the following operational requirements the term “intersection” is used to cover both intersection and junction concepts.

2.4 The reduced runway declared distances for take-off, as for those used for full runway declared distances, should consist of take-off run available (TORA), take-off distance available (TODA) and accelerate-stop distance available (ASDA).

2.5 The datum-line from which the reduced runway declared distances for take-off should be determined is defined by the intersection of the downwind edge of the specific taxiway with the runway edge. The loss, if any, of runway length due to alignment of the aircraft prior to take-off should be taken into account by the operators for the calculation of the aircraft’s take-off weight.

2.6 Intersections used as intermediate take-off positions should be identified by the “taxiway designator” to which the datum-line of the associated reduced runway declared distance for take-off refers.

2.7 At each international aerodrome, specific minima visibility for take-off should be established, regulating the use of intersection take-off positions. These minima should permit the appropriate ATC unit to maintain a permanent surveillance of the ground movement operations, and the flight crews to constantly secure their position on the manoeuvring area, so as to exclude any potential risk of confusion as to the

identification of the aircraft and intersections used for take-off. The minima should be consistent with the surface movement guidance and control system (SMGCS) provided at the aerodrome concerned.

2.8 The provision of marking and lighting aids together with signs should ensure the safe control and guidance of aircraft towards and at take-off intersections appropriate to the minima visibility criteria retained. At the runway holding position of the associated intersection take-off position, such signs should indicate the runway heading and the remaining TORA in metres.

2.9 At aerodromes regularly used by international commercial air transport, take-offs from runway/taxiway intersections may be justified for the following reasons:

- a) runway capacity improvement;
- b) taxi routes distances reduction;
- c) noise alleviation; and
- d) air pollution reduction.

2.10 The appropriate authorities should, upon prior consultation with aircraft operators, agree on the selection of suitable intermediate intersection take-off positions along the runway(s). Accordingly, authorities should determine the reduced runway declared distances for take-off associated with each selected intersection take-off position and establish the specific ATC rules and operational procedures/limitations. Such provisions should be published in the State aeronautical information publications (AIP).

Aerodrome capacity management

2.11 As an integral part of the air navigation system, the aerodrome should provide the needed ground infrastructure including, *inter alia*, lighting; taxiways; runway, including exits; aprons and precise surface guidance to improve safety and to maximize aerodrome capacity in all weather conditions. An efficient aerodrome capacity planning and management should include:

- a) reduction of runway occupancy time;
- b) the capability to safely manoeuvre in all weather conditions whilst maintaining capacity;
- c) precise surface guidance to and from a runway required in all conditions; and
- d) availability of information on the position (to an appropriate level of accuracy) and intent of all vehicles and aircraft operating on the movement area for the appropriate ATM community members.

2.12 States should ensure that adequate consultation and, where appropriate, cooperation between airport authorities and users/other involved parties are implemented at all international aerodromes to satisfy the provisions of aerodrome capacity assessment and requirement.

2.13 When international aerodromes are reaching designed operational capacity, a better and more efficient utilization of existing runways, taxiways and aprons is required. Runway selection procedures and standard taxi routes at aerodromes should ensure an optimum flow of air traffic with a minimum of delay and a maximum use of available capacity. They should also, if possible, take account of the need to keep taxiing times for arriving and departing aircraft as well as apron occupancy time to a minimum. The airport collaborative decision making (A-CDM) concept should be implemented to improve airport capacity as early as possible.

Aerodrome capacity assessment and requirement

2.14 The declared capacity/demand condition at aerodromes should be periodically reviewed in terms of a qualitative analysis for each system component and, when applicable, the result of the qualitative assessment upon mutual agreement be used for information.

2.15 The future capacity/demand, based on a forecast for the next five years, should be agreed upon after close cooperation between aerodrome authorities and affected users.

2.16 Operators should consult with aerodrome authorities when future plans indicate a significant increased requirement for capacity resulting in one of the elements reaching a limiting condition.

2.17 Aerodrome capacity should be assessed by aerodrome authorities in consultation with the parties involved for each component (terminal/apron/aircraft operations) using agreed methods and criteria for level of delays.

2.18 Where restrictions in aerodrome capacity are identified, a full range of options for their reduction or removal should be evaluated by the aerodrome authority, in close cooperation with the operators and other involved parties. Such options should include technical/operational/procedural and environmental improvements and facility expansion.

2.19 At many aerodromes, airspace capacity has influence on the aerodrome capacity. If the declared capacity of a specified airspace has influence on aerodrome operations, this should be indicated and action undertaken to reach a capacity in this airspace corresponding to the aerodrome capacity.

2.20 The possibility of overcoming capacity limitations should also take the use of other aerodromes in the vicinity into consideration.

Closure of regular aerodromes

2.21 When a regular aerodrome is to be closed, States should ensure that sufficient alternate aerodromes remain open to provide for the safety and efficiency of aircraft approaching the regular aerodrome that may be required to divert to an alternate.

Scheduling aerodrome maintenance

2.22 States, when planning major aerodrome maintenance work that would affect the regularity of international aircraft operations, should consider the need to notify aircraft operators sufficiently in advance prior to undertaking the scheduled work.

3. SPECIFIC REGIONAL REQUIREMENTS

None.

Table AOP II-1 –REQUIREMENTS AND CAPACITY ASSESSMENT

EXPLANATION OF THE TABLE

Note: Columns 3 to 5 for physical characteristics relate to runways and taxiways. The physical characteristics of taxiways and aprons should be compatible with the aerodrome reference code (Column 3) and appropriate for the runways with which they are related.

Column

- 1 Name of the city and aerodrome, preceded by the location indicator.
Note 1— When the aerodrome is located on an island and no particular city or town is served by the aerodrome, the name of the island is included instead of a city.
Designation of the aerodrome as:
RS — international scheduled air transport, regular use;
RNS — international non-scheduled air transport, regular use;
AS — international scheduled air transport, alternate use; and
ANS — international non-scheduled air transport, alternate use.
- 2 Required rescue and firefighting service (RFF). The required level of protection expressed by means of an aerodrome RFF category number, in accordance with Annex 14, Volume I, 9.2.
- 3 Aerodrome reference code (RC). The aerodrome reference code for aerodrome characteristics expressed in accordance with Annex 14, Volume I, chapter 1. The code letter or number within an element selected for design purposes is related to the critical aeroplane characteristics for which the facilities are provided.
- 4 Runway Designation numbers
- 5 Type of each of the runways to be provided. The types of runways, as defined in Annex 14, Volume I, Chapter 1, are:
NINST — non-instrument runway;
NPA — non-precision approach runway;
PA1 — precision approach runway, Category I;
PA2 — precision approach runway, Category II;
PA3 — precision approach runway, Category III.
- 6 Remarks. Additional information including critical design aircraft selected for determining RC, critical aircraft selected for determining the RFF category and critical aircraft for pavement strength. Only one critical aircraft type is shown if it is used to determine all the above three elements: otherwise different critical aircraft types need to be shown for different elements.

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6
BAHRAIN					
BAHRAIN/Bahrain Intl (OBBI)	10	4F	12 R	NPA	
RS			30 L	NPA	
			12 L	PA 1	
			30 R	PA 1	

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6
EGYPT					
ALEXANDRIA/Borg El –Arab Intl (HEBA) RS	8	4E	14 32	NPA PA1	
ASWAN/Aswan Intl (HESN) RS	9	4E	17 35	NPA PA1	
CAIRO/Cairo Intl (HECA) RS	9	4E	05L 23R	PA1 PA1	
		4F	05C 23C	PA2 PA2	
		4E	05R 23L	PA2 PA2	
		4D	16 34	NINST NINST	
HURGADA/Hurghada Intl (HEGN) RS	9	4E	16L 34R	NPA PA1	
		4E	16R 34L	NPA NPA	
LUXOR/Luxor Intl (HELX) RS	9	4E	02 20	PA1 PA1	
MARSA ALAM/Marsa Alam Intl (HEMA) RNS	7	4D	15 33	NPA NPA	
SHARM EL-SHEIKH/Sharm El Sheikh Intl (HESH) RS	9	4E	04L 22R	PA1 NPA	
			04R 22L	NPA NPA	
IRAN, ISLAMIC REPUBLIC OF					
BANDAR ABBAS/Bandar Abbas Intl (OIKB) RS	8	4D	03R 21L	NPA PA1	
			03L 21R	NINST NINST	

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6
ESFAHAN/Shahid Beheshti Intl (OIFM) RS	9	4E	08L 26R	NPA PA1	
			08R 26L	NPA NPA	
MASHHAD/Shahid Hashemi Nejad Intl (OIMM) RS	9	4D	13L 31R	NPA PA1	
			13R 31L	NPA NPA	
SHIRAZ/Shiraz Intl (OISS) RS	9	4D	11R 29L	NINST PA1	
			11L 29R	NINST NPA	
TABRIZ/Tabriz Intl (OITT) RNS	9	4D	12L 30R	NPA PA1	
			12R 30L	NINST NINST	
TEHRAN/Imam Khomains Intl (OIIE) RS	9	4E	11L 29R	NPA PA2	
TEHRAN/Mehrabad Intl (OIII) RS	9	4E	11R 29L	NPA PA1	
			11L 29R	NPA NPA	
YAZD/ Shahid Sadooghi Intl (OIYY) RS	8	4E	13 31	NPA PA1	
ZAHEDAN/ Zahedan Intl (OIZH) RS	8	4D	17 35	NINST PA1	
IRAQ					
Al Najaf/Al Najaf Intl (ORNI) RNS	8	4D	28 10	NP1	
BAGHDAD/Baghdad Intl (ORBI) RS	8	4E	15R 33L	PA1 PA2	
BASRAH/Basrah Intl (ORMM) RS	8	4E	14 32	NINST PA2	
ERBIL/Erbil Intl (ORER) RS	7	4C	15 33	PA1 NINST	
MOUSL/Mousl Intl (ORBM) RS	7	4C	15 33	NINST NINST	

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6
SULYMANIYAH/Sulaymaniyah Intl (ORSU) RS	9	4E	31 13	PA1 PA1	
JORDAN					
AMMAN/Marka Intl (OJAM) ANS	8	4C	06 24	NPA PA1	
AMMAN/Queen Alia Intl (OJAI) RS	10	4E	08R 26L 08L 26R	NPA PA2 PA 2 PA 2	
AQABA/ King Hussein Intl (OJAQ) RS	9	4E	01 19	PA1 PA1	
KUWAIT					
KUWAIT/Kuwait Intl (OKBK) RS	9	4E	15R 33L 15L 33R	PA2 PA2 PA2 PA2	
LEBANON					
BEIRUT/ Rafic Hariri Intl (OLBA) RS	9	4E	03 21 16 34 17 35	PA1 PA1 PA1 NINST PA1 NINST	
LIBYA					
BENGHAZI/Benina (HLLB) RS	8	4D	15L 33R	PA1 NPA	
SEBHA/Sebha (HLLS) RS	7	4C	15R 33L 13 31 06 24	NPA PA1 PA1 NPA	

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6
TRIPOLI/Tripoli Intl (HLLT) RS	8	4E	09 27 18 36	PA1 PA2	
OMAN					
MUSCAT/Muscat Intl (OOMS) RS	9	4E	08 26	PA1 PA1	
SALALAH/Salalah (OOSA) AS	9	4E	07 25	NPA PA1	
QATAR					
DOHA/Doha Intl (OTBD) RS	9	4E	15 33	PA1 PA3	
DOHA/Hamad Intl (OTHH) RS	10	4F	16L 34R 16R 34L	PA3 PA3 PA3 PA3	
SAUDI ARABIA					
DAMMAM/Kind Fahid Intl (OEDF) RS	9	4E	16L 34R 16R 34L	PA2 PA2 PA2 PA2	
JEDDAH/King Abdulaziz Intl (OEJN) RS	9	4E	16R 34L 16C 34C 16L 34R	PA2 PA2 PA2 PA2 PA1 PA1	
MADINAH/Prince Mohammad Bin Abdulaziz Intl (OEMA) RS	8	3D 4E	17 35 18 36	PA1 PA1 NPA PA1	
RIYADH/King Khalid Intl (OERK) RS	9	4E	15L 33R 15R 33L	PA1 PA1 PA1 PA1	

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6
SOUTH SUDAN					
JUBA/Juba (HSSJ) RS	6	4C	13 31	PA1 NINST	
SUDAN					
EL OBEID/El Obeid (HSOB) AS	7	4D	01 19	NPA NPA	
KHARTOUM/Khartoum (HSSS) RS	9	4E	18 36	PA1 NPA	
NYALA/Nyala (HSNN) AS	7	4D	04 22	NPA NPA	
PORT SUDAN/Port Sudan Intl (HSPN) RS	8	4D	17 35	NPA PA1	
SYRIAN ARAB REPUBLIC					
ALEPPO/Aleppo Intl (OSAP) RS	7	4D	09 27	PA2 PA2	
DAMASCUS/ Damascus Intl (OSDI) RS	8	4E	05L 23R 05R 23L	PA2 PA2 PA2 PA2	
LATTAKIA /Bassel AL-Assad Intl (OSLK) RS	5	4D	17 35	NPA NPA	
UNITED ARAB EMIRATES					
ABU DHABI/Abu Dhabi Intl (OMAA) RS	10	4F	13 R 31 L	PA1 PA3	
	10	4F	13 L 31 R	PA3 PA3	
ABU DHABI /Al Bateen Exclusive (OMAD) RS	7	4C	13 31	NPA PA1	
AL AIN/Al Ain Intl (OMAL) RS	9	4E	01 19	PA1 NPA	
DUBAI/Al Maktoum Intl (OMDW) RS	10	4F	12 30	PA3 PA3	

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6
DUBAI/Dubai Intl (OMDB) RS	10	4F	12L 30R	PA3 PA3	
			12R 30L	PA3 PA3	
FUJAIRAH/Fujairah Intl (OMFJ) RS	9	4E	11 29	NPA PA1	
RAS AL KHAIMAH /Ras Al Khaimah Intl (OMRK) RS	7	4E	16 34	NPA PA1	
SHARJAH/Sharjah Intl (OMSJ) RS	9	4F	12 30	PA2 PA2	
YEMEN					
ADEN/Aden Intl (OYAA) RS	9	4E	08 26	NPA PA1	
HODEIDAH/ Hodeidah Intl (OYHD) RS	9	4E	03 21	NPA NPA	
MUKALLA/Riyan Intl (OYRN) RS	9	4E	06 24	NPA NPA	
SANA'A/Sana'a Intl (OYSN) RS	9	4E	18 36	PA1 NPA	
TAIZ/ Taiz Intl (OYTZ) RS	9	4E	01 19	NPA NPA	

MID ANP, VOLUME II

PART III – COMMUNICATIONS, NAVIGATION AND SURVEILLANCE (CNS)

1. INTRODUCTION

1.1 This part of the MID ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to communication, navigation and surveillance (CNS). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of CNS facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to CNS facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

Communications

Aeronautical Fixed Service (AFS)

2.1 The aeronautical fixed service should comprise the following systems and applications that are used for ground-ground (i.e. point-to-point and/or point-to-multipoint) communications in the international aeronautical telecommunication service:

- a) ATS direct speech circuits and networks;
- b) meteorological operational circuits, networks and broadcast systems, including World Area Forecast System – Internet File Service (WIFS) and/or Satellite Distribution System for Information Relating to Air Navigation (SADIS);
- c) the aeronautical fixed telecommunications network (AFTN);
- d) the common ICAO data interchange network (CIDIN);
- e) the air traffic services (ATS) message handling services (AMHS); and
- f) the inter-centre communications (ICC).

2.2 To meet the data communication requirements, a uniform high-grade aeronautical network should be provided, based on the aeronautical telecommunication network (ATN), taking into account the existence and continuation of current networks.

2.3 Contingency procedures should be in place to ensure that, in case of a communication centre breakdown, all the parties concerned are promptly informed of the prevailing situation. All possible arrangements should be made to ensure that, in case of breakdown of a communications centre or circuit, at least high-priority traffic continues to be handled by appropriate means.

2.4 AFS planning should permit flexibility in detailed development and implementation. The required AFTN Stations and Centres are listed in the AFTN Plan in **Table CNS II-1**.

The Aeronautical Telecommunication Network (ATN)

2.5 The ATN should be able to:

- a) support applications carried by the existing networks;
- b) support gateways enabling inter-operation with existing networks; and
- c) support ground-ground communications traffic associated with air-ground data link applications.

2.6 The ATN should make optimum use of dedicated bilateral/multilateral aeronautical links and other communication means commensurate with the operational Quality of Service (QoS) requirements.

2.7 The implementation of the ATN should take into account the need for cost-effective evolution in terms of network capacity, requirements and time-frame and allow for a progressive transition from existing communication networks and services to a uniform, harmonised and integrated communications infrastructure, capable of supporting the implementation of future aeronautical services such as Flight and Flow Information in a Collaborative Environment (F-FICE), System-Wide Information Management (SWIM) applications, etc.

2.8 In case means other than dedicated bilateral links are used by the ATN, States should ensure that service level agreements (SLA) are met in terms of implementation priority, high availability, priority in restoration of service and appropriate levels of security.

2.9 The ATN should provide for interregional connections to support data exchange and mobile routing within the global ATN.

2.10 In planning the ATN, provisions should be made, where required, for interfacing with other international networks. The Required ATN Infrastructure Routing Plan is described under **Table CNS II-2**.

Network services

2.11 The Internet Society (ISOC) communications standards for the Internet Protocol Suite (IPS) should be used for the implementation of AMHS.

2.12 The migration from legacy bit-oriented protocols such as X.25 Protocol suite to IPS should be planned.

2.13 The migration of international or sub-regional ground networks to the ATN based on Internet Protocol (IP) to support AFS communication requirements, while reducing costs, should be planned.

2.14 States should ensure that the solutions provided for the implementation of the ATN meet the air traffic management and aeronautical fixed service requirements. Such requirements should consist of:

- a) Performance requirements: availability, continuity, integrity, monitoring and alerting criteria per data flow. In the case where a required communication performance (RCP) is globally prescribed, requirements derived from RCP should be stated;
- b) Interoperability requirements;
- c) Safety and security requirements, duly derived after the identification of operational hazards and threats, and allocation of objectives; and
- d) Implementation process requirements (creation, test, migration, upgrades, priority in restoration of service, termination).

Network management

2.15 An ICAO centralised off-line network management service is provided to participating AFTN/AMHS centres in the MID Region under the ATS Messaging Centre (AMC).

2.16 In the case of integrated communications services procured and shared by several States, organizational provisions should allow for the planning and performing of the management of technical performance, network configuration, fault, security, cost division/allocation, contract, orders and payment.

Specific air traffic management (ATM) requirements

2.17 Where ATS speech and data communication links between any two points are provided, the engineering arrangements should be such as to avoid the simultaneous loss of both circuits. The required ATS direct speech circuits plan is detailed under **Table CNS II-3**.

2.18 Special provisions should be made to ensure a rapid restoration of ATS speech circuits in case of outage, as derived from the performance and safety requirements.

2.19 Data circuits between ATS systems should provide for both high capacity and message integrity.

2.20 The Inter-Centre Communication (ICC), consisting of ATS Inter-facility Data Communication (AIDC) application and the Online Data Interchange (OLDI) application, should be used for automated

exchange of flight data between ATS units to enhance the overall safety of the ATM operation and increase airspace capacity.

2.21 Where Voice over IP is planned or implemented between ATS units for voice communications, it should meet the ATS requirements. When data and voice are multiplexed, particular attention should be paid to the achievement of the ATM performance and safety requirements.

Specific meteorological (MET) requirements

2.22 The increasing use of the GRIB (Gridded Binary or General Regularly-distributed Information in Binary form) and BUFR (Binary Universal Form for the Representation of meteorological data) code forms for the dissemination of the upper wind and temperature and significant weather forecasts and the planned transition to digital form using extensible markup language (XML)/geography markup language (GML) for the dissemination of OPMET data should be taken into account in the planning process of the ATN.

2.23 In planning the ATN, account should be taken of changes in the current pattern of distribution of meteorological information resulting from the increasing number of long-range direct flights and the trend towards centralized flight planning.

Specific aeronautical information management (AIM) requirements

2.24 The aeronautical fixed service should meet the requirements to support efficient provision of aeronautical information services through appropriate connections to area control centres (ACCs), flight information centres (FICs), aerodromes and heliports at which an information service is established.

Aeronautical Mobile Service (AMS)

2.25 To meet the air-ground data communication requirements, a high-grade aeronautical network should be provided based on the ATN, recognising that other technologies may be used as part of the transition. The network needs to integrate the various data links in a seamless fashion and provide for end-to-end communications between airborne and ground-based facilities.

2.26 Whenever required, use of suitable techniques on VHF or higher frequencies should be made. The required HF network designators applicable for the MID Region are listed in **Table CNS II-4**.

2.27 Aerodromes having a significant volume of International General Aviation (IGA) traffic should also be provided with appropriate air-ground communication channels.

Air-Ground Data Link Communications

2.28 A Strategy for the harmonised implementation of the data link communications in the MID Region should be developed based on the Global Operational Data Link Document (GOLD) adopted by ICAO Regions and the Aviation System Block Upgrade (ASBU) methodology.

2.29 Where applicable, controller-pilot data link communications (CPDLC), based on ATN VDL data link Mode 2 (VDL2) and/or FANS-1/A, should be implemented for air-ground data link communications.

2.30 Partial or divergent aircraft data link evolutions that result in excluding messages from aircraft systems should not be pursued. Interim steps or phases toward full implementation of the common technical definition in ground systems should only be pursued on a regional basis, after coordination between all States concerned.

2.31 Harmonization of operational procedures for implementation of the above packages is essential. States, Planning and Implementation Regional Groups (PIRGs) and air navigation services providers should adopt common procedures to support seamless ATS provision across FIR boundaries, rather than each State or Region developing and promulgating unique procedures for common functions.

Required Communication Performance (RCP)

2.32 The Required Communication Performance (RCP) concept characterizing the performance required for communication capabilities that support ATM functions without reference to any specific technology should be applied wherever possible.

2.33 States should determine, prescribe and monitor the implementation of the RCP in line with the provisions laid down in the *ICAO Manual on Required Communication Performance* (Doc 9869).

Navigation

Navigation Infrastructure

2.34 The navigation infrastructure should meet the requirements for all phases of flight from take-off to final approach and landing.

Note: Annex 10 to the Convention on International Civil Aviation—Aeronautical Telecommunications, Volume I—Radio Navigation Aids, Attachment B, provides the strategy for introduction and application of non-visual aids to approach and landing.

2.35 The *MID Region PBN Implementation Plan* provides guidance to air navigation service providers, airspace operators and users, regulators, and international organizations, on the expected evolution of the regional air navigation system in order to allow planning of airspace changes, enabling ATM systems and aircraft equipage. It takes due account of the operational environment of the MID Region.

PBN Transition Strategy

2.36 During transition to performance-based navigation (PBN), sufficient ground infrastructure for conventional navigation systems should remain available. Before existing ground infrastructure is considered for removal, users should be given reasonable transition time to allow them to equip appropriately to attain a performance level equivalent to PBN. States should approach removal of existing ground infrastructure with caution to ensure that safety is not compromised. This should be guaranteed by conducting safety assessments and consultations with the users.

Use of specific navigation aids

2.37 Where, within a given airspace, specific groups of users have been authorized by the competent authorities to use special aids for navigation. The respective ground facilities should be located and aligned so as to provide for full compatibility of navigational guidance with that derived from the SARPs.

2.38 States should ensure and oversee that service providers take appropriate corrective measures promptly whenever required by a significant degradation in the accuracy of navigation aids (either space based or ground based or both) is detected.

Surveillance

2.40 An important element of modern air navigation infrastructure required to manage safely increasing levels and complexity of air traffic is aeronautical surveillance systems.

2.41 When operating Mode S radars, States should coordinate with their respective ICAO Regional Office the assignment of their corresponding interrogator identifier (II) codes and surveillance identifier (SI) codes, particularly where areas of overlapping coverage will occur.

Frequency Management

Aeronautical Mobile Service (AMS)

2.42 Frequencies should be assigned to all VHF aeronautical mobile service (AMS) facilities in accordance with the principles laid out in Annex 10, Volume V and *ICAO Handbook on Radio Frequency Spectrum Requirements for Civil Aviation* (Doc 9718) Volumes I and II, and take into account:

- a) agreed geographical separation criteria based on 25 kHz or 8.33 kHz interleaving between channels;
- b) agreed geographical separation criteria for the implementation of VDL services;
- c) the need for maximum economy in frequency demands and in radio spectrum utilization; and
- d) a deployment of frequencies which ensures that international services are planned to be free of interference from other services using the same band.

2.43 The priority order to be followed in the assignment of frequencies to service is:

- a) ATS channels serving international services (ACC, APP, TWR, FIS);
- b) ATS channels serving national purposes;
- c) channels serving international VOLMET services;
- d) channels serving ATIS and PAR; and
- e) channels used for other than ATS purposes.

2.44 The criteria used for frequency assignment planning for VHF AMS facilities serving international requirements should, to the extent practicable, also be used to satisfy the need for national VHF AMS facilities.

2.45 Special provisions should be made, by agreement between the States concerned, for the sharing and the application of reduced protection of non-ATS frequencies in the national sub-bands, so as to obtain a more economical use of the available frequency spectrum consistent with operational requirements.

2.46 States should ensure that no air/ground frequency is utilized outside its designated operational coverage and that the stated operational requirements for coverage of a given frequency can be met for the transmission sites concerned, taking into account terrain configuration.

Radio navigation aids for Aeronautical Radio Navigation Services (ARNS)

2.47 Frequencies should be assigned to all radio navigation facilities taking into account agreed geographical separation criteria to ILS localizer, VOR and GBAS, X and Y channels to DME, in accordance with the principles laid out in Annex 10, Volume V and *ICAO Handbook on Radio Frequency Spectrum Requirements for Civil Aviation* (Doc 9718) Volumes I and II. Also, the need for maximum economy in frequency demands and in radio spectrum utilization and a deployment of frequencies which ensures that international services are planned to be free of interference from other services using the same band, need to be considered.

2.48 The principles used for frequency assignment planning for radio navigation aids serving international requirements should, to the extent possible, also be used to satisfy the needs for national radio aids to navigation.

Support to ICAO Positions for ITU World Radiocommunication Conferences (WRCs)

2.49 Considering the importance and continuous demand of the radio frequency spectrum and for the protection of the current aeronautical spectrum and the allocation of new spectrum for the new services and system to be implemented in civil air navigation, States and international organizations are to support ICAO's position at ITU World Radiocommunication Conferences (WRCs) and in regional and other international activities conducted in preparation for ITU WRCs.

Note: The Handbook on Radio Frequency Spectrum Requirements for Civil Aviation (Doc 9718) Volume I, contains ICAO policy statements relevant to the aviation requirements for radio frequency spectrum. The handbook is intended to assist States and ICAO in preparing for ITU WRCs.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 The MIDAMC application available at: <http://www.midamc.jo> should be used for all AMHS address coordination and other AMHS and Network related matters.

3.2 The EUROCONTROL MICA application available at: <https://extranet.eurocontrol.int/http://webprisme.cfm.eurocontrol.int/mica/Index.action> should be used for the Mode S SSR IC allocation and coordination.

TABLE CNS II-1 - AERONAUTICAL FIXED TELECOMMUNICATIONS NETWORK (AFTN) PLAN
EXPLANATION OF THE TABLE
Column

- 1 The AFTN Centres/Stations of each State are listed alphabetically. Each circuit appears twice in the table. The categories of these facilities are as follows:
M - Main AFTN COM Centre
T - Tributary AFTN COM Centre
S - AFTN Station
- 2 Category of circuit:
M - Main trunk circuit connecting Main AFTN communication centres.
T - Tributary circuit connecting Main AFTN communication centre and Tributary AFTN Communications Centre.
S - AFTN circuit connecting an AFTN Station to an AFTN Communication Centre.
- 3 Type of circuit provided:
LTT/a - Landline teletypewriter, analogue (e.g. cable, microwave)
LTT/d - Landline teletypewriter, digital (e.g. cable, microwave)
LDD/a - Landline data circuit, analogue (e.g. cable, microwave)
LDD/d - Landline data circuit, digital (e.g. cable, microwave)
SAT/a/d - Satellite link, with /a for analogue or /d for digital
- 4 Circuit signalling speed in bits/s.
- 5 Circuit protocols
- 6 Data transfer code (syntax):
ITA-2 - International Telegraph Alphabet No. 2 (5-unit code).
IA-5 - International Alphabet No. 5 (ICAO 7-unit code).
CBI - Code and Byte Independency (ATN compliant).
- 7 Remarks

State/Station	Category	Requirement				Remarks
		Type	Signalling Speed	Protocol	Code	
1	2	3	4	5	6	
BAHRAIN						
BAHRAIN						
ABU DHABI	M		64 – 9.6Kbps	CIDIN	IA-5	All: AMHS by 2017
ANKARA	M		64Kbps	AFTN	IA-5	
BEIRUT	M		64 – 9.6Kbps	AMHS	IA-5	
DOHA	T		64 – 9.6Kbps	AMHS	IA-5	
JEDDAH	M		64 – 9.6Kbps	AMHS	IA-5	
KUWAIT	M		64 – 9.6Kbps	CIDIN	IA-5	
MUSCAT	M		64 – 9.6Kbps	None	IA-5	
NICOSIA	M		9.6Kbps	CIDIN	IA-5	
SINGAPORE	M		64 – 9.6Kbps	None	IA-5	
TEHRAN	M		64 – 9.6Kbps	None	IA-5	

State/Station	Category	Requirement				Remarks
		Type	Signalling Speed	Protocol	Code	
1	2	3	4	5	6	
EGYPT CAIRO AMMAN ATHENS BEN GURION BEIRUT JEDDAH KHARTOUM NAIROBI TUNIS TRIPOLI TRIPOLI DAMASCUS ASMARA	M M M M M T M M T T T T					
			64-9.6Kbps 64-9.6Kbps 64-9.6Kbps 9.6 Kbps 128-9.6Kbps 9.6Kbps 9.6Kbps 64-9.6Kbps 64-9.6Kbps 9.6Kbps 64-9.6Kbps 9.6Kbps	AMHS CIDIN None CIDIN AMHS None None AMHS None None None None	IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5 IA-5	STNDBY
IRAN TEHRAN BAHRAIN KUWAIT ABU-DHABI KARACHI ANKARA MUSCAT DAMASCUS BAGHDAD	M M M M M M T T					
			64 Kbps 64 Kbps 9.6 Kbps 64Kbps 64Kbps 64Kbps 50 BD 64Kbps	None None None None AFTN None None None	IA-5 IA-5 IA-5 IA-5 IA-5 ITA-2 IA-5	Planned
IRAQ BAGHDAD AMMAN BEIRUT KUWAIT ANKARA	T T T T T					
			- 2MBps 2MBps 9.6Kbps	None None None	IA-5 IA-5 IA-5	VPN VPN Planed
JORDAN AMMAN ABU DHABI ANKARA BAGHDAD BEIRUT BEN GURION CAIRO DAMASCUS JEDDAH NICOSIA	T M T T M T T M T					
			2MBps 64Kpbs 2MBps 2MBps 9.6 Kbps 64 – 9.6Kbps 64 – 9.6Kbps 64Kbps 64Kbps	AMHS AFTN AMHS AMHS None AMHS None AMHS AFTN	- - IA-5 IA-5 X400 IA-5	VPN Land Line VPN Planed VPN Planed

State/Station	Category	Requirement				Remarks
		Type	Signalling Speed	Protocol	Code	
1	2	3	4	5	6	
SAUDI ARABIA JEDDAH ADDIS-ABABA BAHRAIN BEIRUT CAIRO MUSCAT SANA'A AMMAN KHARTOUM ABUDHABI NICOSIA	M M M M M T M T T M	SAT SAT SAT	9.6Kbps 64 – 9.6Kbps 64-9.6Kbps 128-9.6Kbps 64 Kbps 9.6Kbps 64Kbps 64Kbps 64Kbps 64Kbps	None CIDIN None AMHS None None AMHS AMHS AMHS CIDIN	IA-5 IA-5 IA-5 X400 IA-5 IA-5 X400 X400 X400 IA-5	AMHS (2015) AMHS (2015) AMHS (2015) AMHS EUR/ MID OPMET
SUDAN KHARTOUM ADDIS ABABA ASMARA CAIRO JEDDAH TRIPOLI NDJAMENA	T M T M M T M		9.6Kbps 9.6Kbps 9.6Kbps 64Kbps 9.6Kbps 9.6Kbps	None None None AMHS None None	IA-5 IA-5 IA-5 IA-5 IA-5	
SYRIA DAMASCUS ATHENS AMMAN BEIRUT CAIRO KUWAIT TEHRAN	M T M M M T		2 X 50 BD 64 – 9.6Kbps 64-9.6Kbps 9.6Kbps 64-9.6Kbps 50 BD	None None None None None None	ITA-2 IA-5 IA-5 IA-5 IA-5 ITA-2	
UAE ABU DHABI BAHRAIN AMMAN MUSCAT DOHA TEHRAN JEDDAH	M T M T M T	VPN SAT	9.6Kbps 2 Mbps 64Kbps 128Kbps 9.6Kbps 64Kbps	CIDIN AMHS AMHS AMHS None AMHS	IA-5 IA-5	VPN
YEMEN SANA'A JEDDAH MUSCAT	T T		9.6Kbps 100Kbps	None None	IA-5 IA-5	

TABLE CNS II-2 - REQUIRED ATN INFRASTRUCTURE ROUTING PLAN

EXPLANATION OF THE TABLE

Column

- 1 Name of the Administration and Location of the ATN Router
- 2 Type of Router (in end systems (ES) of the Administration shown in column 1)
- 3 Type of Interconnection:
Inter Regional: Connection between different Regions/ domains
Intra Regional: Connection within a Region/ domain.
- 4 Connected Router: List of the Administration and location of the ATN routers to be connected with the router shown in column 1.
- 5 Bandwidth: Link Speed expressed in bits per second (bps)
- 6 Network Protocol: If Internet Protocol Suite is used, indicate version of IP (IPv4 or IPv6)
- 7 Via: The media used to implement the interconnection of the routers. (in case of IP service bought from a service provider, indicate VPN)
- 8 Remarks

Administration and Location	Type of Router	Type of Interconnection	Connected Router	Bandwidth	Network Protocol	Via	Remarks
1	2	3	4	5	6	7	8
BAHRAIN, Bahrain	BIS	Inter-Regional Intra Regional	ASIA/PAC Oman, Saudi Arabia Kuwait, Lebanon Iran, Qatar, UAE		IPv4		
EGYPT, Cairo	BIS	Inter-Regional Intra Regional	AFI, EUR Israel, Jordan, Lebanon, Athena Saudi Arabia		IPv4		
IRAN, Tehran	BIS	Intra Regional	ASIA/PAC Kuwait, Bahrain Afganistan		IPv4		
IRAQ, Baghdad	IS	Intra Regional	Jordan, Lebanon		IPv4		
JORDAN, Amman	BIS	Intra Regional	Egypt, Israel Lebanon, Iraq, Syria		IPv4 VPN	JT	
KUWAIT, Kuwait	BIS	Inter-Regional Intra Regional	EUR, Pakistan, Iran, Qatar, Bahrain, Lebanon		IPv4		
LEBANON, Beirut	BIS	Inter-Regional Intra Regional	EUR Jordan, Syria Iraq, Kuwait, Bahrain Saudi Arabia, Egypt		IPv4		
LIBYA	IS	Intra Regional			IPv4		
OMAN, Muscat	BIS	Inter-Regional Intra Regional	ASIA/PAC Yemen, Bahrain, UAE, Saudi Arabia		IPv4 VPN	OT	
QATAR, Doha	IS	Intra Regional	Kuwait, Bahrain Abu Dhabi		IPv4		
SAUDI ARABIA, Jeddah	BIS	Inter-Regional Intra Regional	AFI Egypt, Lebanon Bahrain, Oman Yemen		IPv4		
SUDAN	IS	Intra Regional			IPv4		
SYRIA, Damascus	IS	Intra Regional	Jordan, Lebanon		IPv4 VPN		
U.A.E, Abu Dhabi	BIS	Intra Regional	Bahrain, Oman Qatar		IPv4 VPN		
YEMEN, Sana'a	IS	Intra Regional	Oman, Saudi Arabia		IPv4	YT	

TABLE CNS II-3 - ATS DIRECT SPEECH CIRCUITS PLAN

EXPLANATION OF THE TABLE

Column 1 and 2	Circuit terminal stations are listed alphabetically by the Terminal I.
3	A — indicates ATS requirement for the establishment of voice communication within 15 seconds. D — indicates requirements for instantaneous communications.
4	Type of service specified: LTF — landline telephone (landline, cable, UHF, VHF, satellite). RTF — radiotelephone.
5	Type of circuits; Direct (DIR) or Switched (SW). D — indicates a direct circuit connecting Terminals I and II. S — indicates that a direct circuit does not exist and that the connection is established via switching at the switching centre(s) indicated in column 6. IDD — International direct dialling by public switch telephone network <i>Note 1.— Number of D and/or S circuits between Terminals I and II are indicated by numerical prefix, i.e. 2 D/S means 2 direct circuits and one switched circuit.</i> <i>Note 2.— Pending the implementation of proper ATS voice circuits, and provided that aeronautical operational requirements are met, IDD services may be used for the ATS voice communications in low traffic areas.</i>
6	Location of switching centre(s). Alternate routing location, if available, is indicated in brackets.
7	Remarks

ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			REMARKS
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	
1	2	3	4	5	6	7
BAHRAIN						
Bahrain	Emirates ACC	A	LTF	DIR		4 LINES
	Dammam	A	LTF	DIR		2 LINES
	Doha	A	LTF	DIR		4 LINES
	Jeddah	A	LTF	DIR		2 LINES
	Kuwait	A	LTF	DIR		1 LINES
	Riyadh	A	LTF	DIR		1 LINES
	Tehran	A	LTF	DIR		1 LINES
EGYPT						
Cairo	Amman	A	LTF	DIR		1LINE
	Athens	A	LTF	DIR		2LINES
	Jeddah	A	LTF	DIR		2LINES
	Khartoum	A	LTF			1LINE
	Nicosia	A	LTF	DIR		1LINE
	Tel Aviv	A	LTF	DIR		1LINE
	Tripoli	A	LTF	DIR		1LINE
IRAN (ISLAMIC REPUBLIC OF)						
Abadan	Basrah	A	LTF			
	Shiraz	A	LTF	DIR		

ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			REMARKS	
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA		
1	2	3	4	5	6	7	
Shiraz	Abadan Basrah Doha Karachi Kuwait Tehran	A A A A A A	LTF LTF LTF LTF LTF LTF	DIR DIR DIR DIR DIR		11	
Tehran	Emirates ACC Ankara Ashgabat Baghdad Bahrain Baku Basrah Doha Kabul Karachi Kuwait Muscat Shiraz Yerevan/Zvartn ots	A A A A A A A A A A A A A A	LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF	DIR DIR DIR DIR DIR DIR DIR DIR DIR DIR DIR			
IRAQ							
Baghdad	Amman Ankara Basrah Damascus Jeddah Kuwait Mosul Tehran	A A A A A A A A	LTF SAT LTF LTF LTF LTF LTF				
Basrah	Abadan Baghdad Kuwait Shiraz Tehran	A A A A A	LTF LTF LTF LTF LTF				
Mosul	Baghdad	A	LTF				
JORDAN							
Amman	Baghdad Cairo Damascus Jeddah Tel Aviv	A A A A A	LTF LTF LTF LTF LTF				

ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			REMARKS
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	
1	2	3	4	5	6	7
KUWAIT Kuwait	Baghdad Bahrain Basrah Jeddah Shiraz Tehran	A A A A A A	LTF LTF LTF LTF LTF LTF	 DIR DIR DIR DIR		
LEBANON Beirut	Ankara Damascus Nicosia	A A A	LTF LTF LTF	DIR DIR DIR		
LIBYA Tripoli	Cairo Malta Khartoum					
OMAN Muscat Salalah	Emirates ACC Mumbai Jeddah Karachi Salalah Sana'a Tehran Muscat	A A A A A A A A	LTF LTF LTF LTF LTF LTF LTF	DIR DIR DIR DIR DIR DIR DIR		
QATAR Doha	Emirates ACC Bahrain Jeddah Riyadh Dammam	A A A A A	LTF LTF LTF LTF	DIR DIR DIR DIR	Via Bahrain	II + 1
SAUDI ARABIA Dammam	Bahrain Jeddah Riyadh	A A A	LTF LTF LTF	DIR DIR DIR		

ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			REMARKS
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	
1	2	3	4	5	6	7
Jeddah	Addis Ababa Amman Asmara Baghdad Bahrain Cairo Dammam Khartoum Kuwait Muscat Riyadh Sana'a	A A A A A A A A A A A A A	LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF LTF	DIR DIR DIR DIR DIR DIR DIR SW	Via Bahrain	
Riyadh	Bahrain Jeddah Dammam	A A A	LTF LTF LTF	DIR DIR DIR		
SUDAN Khartoum	Cairo Jeddah	A A	LTF LTF			
SYRIAN ARAB REPUBLIC Damascus	Amman Ankara Baghdad Beirut Nicosia	A A A A A	LTF LTF LTF LTF LTF	DIR		
UNITED ARAB EMIRATES Emirates ACC	Abu Dhabi Al Ain Bahrain Doha Dubai Muscat Tehran	A A A A A A A	LTF LTF LTF LTF LTF LTF LTF	DIR SW DIR DIR DIR DIR DIR		21
Abu Dhabi	Emirates ACC Al Ain Dubai	A A A	LTF LTF LTF	SW DIR SW		21 21 21
Al Ain	Emirates ACC Abu Dhabi Dubai	A A A	LTF LTF LTF	SW DIR SW		21 21 21

ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			REMARKS
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	
1	2	3	4	5	6	7
Dubai	Emirates ACC	A	LTF	DIR		2I + 1
	Abu Dhabi	A	LTF	DIR		2I
	Al Ain	A	LTF	SW		1I
	Fujairah	A	LTF	DIR		1I
	Ras Al Khaimah	A	LTF	DIR		1I
	Sharjah	A	LTF	DIR		3I
Fujairah	Ras Al Khaimah	A	LTF	DIR		1I
	Emirates ACC	A	LTF	DIR		1I
Ras Al Khaimah	Dubai	A	LTF	DIR		1I
Sharjah	Dubai	A	LTF	DIR		3I
YEMEN						
Aden	Djibouti	A	LTF			
	Sana'a	A	LTF			
Mukalla	Aden	A	LTF			
	Sana'a	A	LTF			
Sana'a	Aden	A	LTF			
	Addis Ababa	A	LTF			
	Asmara	A	LTF			
	Mumbai	A	LTF			
	Djibouti	A	LTF			
	Jeddah	A	LTF			
	Mogadishu	A	LTF	DIR	Via Bahrain	
	Muscat	A	LTF			
Riyan	A	LTF				

TABLE CNS II-4 - HF NETWORK DESIGNATORS
EXPLANATION OF THE TABLE

Column

- 1 Name of station, preceded by its location indicator.
- 2 Network designators assigned to the facility providing HF radiotelephony en-route communications (selected from the provisions of the allotment plan in Appendix S27 to the ITU Radio Regulations).

NOTES

The ICAO designators for HF MWARA and VOLMET networks in the MID region are derived from the ITU allotment area abbreviations as contained in Appendix S27 to the ITU Radio Regulations.

ITU allotment area:

Two- and three-letter alpha entries indicate major world air route areas (MWARA):

Four-letter alpha entries indicate VOLMET areas:

Location Indicator and Name of location	HF en-route family
1	2
Aden	MID-1, AFI-3
Cairo	AFI-3
Jeddah	AFI-3
Khartoum	AFI-3
Riyan	MID-1, AFI-3
Sanaa	MID-1, AFI-3
Shiraz	MID-1, MID-2
Tehran	MID-1, MID-2
Tripoli	AFI-3

**HF FREQUENCIES AND THEIR ICAO NETWORK DESIGNATORS BASED ON ITU
APPENDIX S27 ALLOTMENT AREAS**

Frequency (kHz)	ITU allotment area	AFI-3	MID-1	MID-2	MID-3	V MID	Remarks
1	2	3	4	5	6	7	8
2944	MID				X		
2956	V MID					X	
2992	MID		X				
3467	MID, AFI	X		X			
3473	MID (1)						
4669	MID				X		
5517	AFI	X					
5589	V MID					X	
5658	MID, AFI	X		X			
5667	MID		X				
6625	MID (1)						
6631	MID			X			
8918	MID		X				
8945	V MID					X	
8951	MID				X		
10018	MID			X			
11300	AFI	X					
11375	MID				X		
11393	V MID (2)					X	
13288	MID, AFI	X		X			
13312	MID		X				
17961	AFI, MID	X			X		

MID ANP, VOLUME II

PART IV - AIR TRAFFIC MANAGEMENT (ATM)

1. INTRODUCTION

1.1 This part of the MID ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to Air Traffic Management (ATM). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of ATM facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to ATM facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

Optimization of traffic flows

2.1 The Planning and Implementation Regional Groups (PIRGs), through regional air navigation agreement, are responsible for the optimization of the traffic flows through the continuous improvement of the regional ATS route network and organized track systems and implementation of random routing areas and free route airspace in the Regions through the set-up of appropriate mechanisms for regional and inter-regional planning and coordination.

2.2 Whenever practicable, States should, in close coordination with operators, establish the most efficient routings.

2.3 The requirements for regional ATS route network, in particular, for ATS routes over the high seas and airspace of undetermined sovereignty, should be agreed upon through regional air navigation agreement.

Note: States' AIPs and other States publications should be consulted for information on the implemented ATS routes.

Aircraft Identification-SSR Code Management

2.4 Within the context of air traffic management (ATM) and the provision of air traffic services (ATS), SSR code management is a key element of ATM to ensure continuous, unambiguous aircraft identification. The number of secondary surveillance radar (SSR) codes is limited and poor management of the assignment of SSR codes results in capacity constraints and aircraft delays. States and air navigation service providers (ANSP) should apply the SSR Code Management Plan approved by MIDANPIRG. The SSR Codes Management Plan of the MID Region is addressed in the Specific Regional Requirements of Volume II.

3. SPECIFIC REGIONAL REQUIREMENTS

Working Principles for the Construction of Air Routes

3.1. The ATS routes agreed through regional air navigation agreement are listed in **Table ATM II-MID-1**. The routes should be developed based on the ICAO SARPS and PANS-OPS and PANS-ATM criteria and parameters, the following should be taking into consideration for the management of MID Region ATS route Network:

- a) Where possible, routes should be established to increase efficiency, reduce complexity and provide additional benefits to users;
- b) separation assurance principles should apply;
- c) routes should be established with sufficient separation to operate independently;
- d) where possible, routes in a radar environment should be procedurally (laterally) separated;
- e) segregated tracks should be established on medium/high density routes and be determined by set criteria;
- f) where required, routes should be constructed to support terminal area management procedures, e.g. SID s/STARs and flow management techniques, as applicable;
- g) holding patterns should be laterally separated from other tracks, and tolerances captured within a single sector;
- h) a maximum of two routes containing high traffic density should be blended at a single point. Inbound tracks should be blended at <90 degrees. Up to three low traffic density routes may be blended at a single point;
- i) multiple crossing points involving major traffic flows should be avoided.
- j) en-route crossings should be minimized. Where crossings are inevitable, they should, where possible, be established for cruise configuration. Such crossings should occur, wherever possible, within radar coverage;
- k) airspace sectorization should take account of the route structure, and workload considerations. If necessary, airspace should be re-sectorized to accommodate changes to air route configuration;
- l) routes should be constructed so as to reflect the optimum navigation capabilities of the principle users (e.g. RNAV or conventional);
- m) the prime determinant should not be the number of track miles. A small increase in track miles may optimize traffic flows, avoid unpredicted delays or avoid holding requirements. Consideration should also be given to the provision of a range of routes which will permit operators to choose cost-efficient routes over the range of expected seasonal wind patterns;
- n) due allowance should be given to existing and future flight data processing (FDP) and radar data processing (RDP) capability (i.e. notification of messages for auto hand-off etc.);
- o) periodic safety audit and review process of routes should be conducted to test demand against capacity criteria, and the principles. This should ideally be done in parallel with the annual sectorization review; and
- p) routes that can no longer be justified should be deleted.

Allocation and Assignment of Secondary Surveillance Radar (SSR) Codes in the MID Region

3.2. The Middle East SSR Code Management Plan (MID SSR CMP), endorsed by MIDANPIRG as MID Doc 005, provides States in the ICAO MID Region with means to coordinate the use of SSR codes based on the provisions of the ICAO Doc 4444 and the principles of the Originating Region Code Assignment Method (ORCAM).

3.3. Certain codes are reserved for special purposes on a world-wide scale. The remaining codes series for use in the Region are divided into two distinct categories: Transit codes (T) for international use and Domestic codes (D) for national use

3.4. The MID Code Allocation List (CAL) at **Table ATM II-MID-2** reflects the assignment of SSR codes to the MID States among the series of codes allocated to the MID Region, based on the number of aircraft to be handled simultaneously within a specified area and for a determined period of protection during traffic peaks.

3.5. The MID Doc 005-*MID SSR CMP*, is available on the ICAO MID website, under eDocuments (https://portal.icao.int/RO_MID/Pages/MIDDocs.aspx), should be managed and maintained up-to-date by the ICAO MID Regional Office.

3.6. States should inform the ICAO MID Regional Office promptly of any deviation from the Plan or proposed changes considered necessary with respect to their code allocations, relevant to ATS infrastructure developments and/or the guidance material provided in the MID SSR CMP.

Special purpose codes

Series 00	Code 0000 is available as a general purpose code for domestic use by any of the MID States.
Series 10	Code 1000 reserved for use as a conspicuity code for Mode S
Series 20	Code 2000 shall be used by flight crews in the absence of any Air Traffic Control (ATC) instructions or regional agreements unless the conditions for the use of codes: 7000, 7500, 7600 and 7700 apply.
Series 70	Code 7000 shall be used by flight crews not receiving ATS service in order to improve detection of suitably equipped aircraft in areas specified by States, unless otherwise instructed by ATS.
Series 75	Code 7500 is reserved for use in the event of unlawful interference.
Series 76	Code 7600 is reserved for use in the event of radio communications failure.
Series 77	Code 7700 is reserved for use in the event of emergencies and interception*. Code 7776 and Code 7777 are reserved for SSR ground transponder monitoring.
Codes 7601-7612	Are reserved for humanitarian flights.

TABLE ATM II-MID-1 MID REGION ATS ROUTE NETWORK

EXPLANATION OF THE TABLE

Column

- 1* Designator of ATS route and Type (Conventional, RNAV5 or RNAV1 etc.)
- 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.
- Note 8.* For ATS route or part thereof is RNAV 1

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
A16	RASDA 330600N 0305700E MELDO 320201N 0310406E BALTIM (BLT) 313144N 0310721E DEGDI 311429N 0311035E CAIRO (CVO) 300532N 0312318E
A408	(SOLIR 135224N 421918E) SALEH 140000N 0422500E ORNIS 141615N0423657E HODEIDAH (HDH) 144622.1N 0425911.1E
A410	KAFIA 084400N 0233100E ALMAM 093345N 0244451E RADAG 110340N 0270020E ELOBEID (OBD) 130640.53N 0301335.25E IMSUT 142048N 0312230E RADKA 145006N 0315040E VATEN 153358N 0323312E
A411	(MITBA 333919N 0111142E) TANLI 332938N 0113000E CLAMS 331700N 0120800E DERKA 330900N 0132202E KAVOX 325700N 0145603E GARUS 324000N 0170000E PRAWN 324000N 0180500E BENINA (BNA) 320728N 0201513E MKILY 315900N 0222000E NASER 315112N 0235518E LOSUL 314100N 0250800E SIDI BARANI (BRN) 313432N 0260020E
A412	TANF (TAN) 332900N 0383920E RAFIF 331247N 0381919E ZELAF 325700N 0380000E DAXEN 3244445N 0374105E NADEK 322728N 0371429E ASLON 321211N 0365111E KUPRI 320825N 0364530E LUDAN 320256N 0363713E GETUP 315833.47N 0363037.47E QUEEN ALIA (QAA) 314423.41N 0360926.59E OSAMA 315550N 0353706E
A414	DEBER 375006N 0580200E BOJNORD (BRD) 372942.2N 0571923.8E EGLUL 372407N 0564855E ORSEK 370517N 0551109E ALNIT 370022N 0544645E GORGAN (GGN) 365544.7N 0542233.3E IMPIR 364958N 0535846E DATOL 364717N 0534706E DASHT-E-NAZ (DNZ) 363853.6N 0531120.1E LABET 360950N 0530127E BUBUX 353023N 0524814E DEHNAMAK (DHN) 351515.0N 0524312.0E
A416	TABRIZ (TBZ) 380853.5N 0461246.5E EGVON 381647N 0475421E ARDABIL (ARB) 381856.5N 0482605.1E GIVTA 380050N 0484744E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	GABMI 374115N 0491052E
	RASHT (RST) 371934.8N 0493657.1E
	KOBUB 370621N 0501031E
	EGMAN 370311N 0501827E
	RAMSAR (RSR) 365412.5N 0504049.6E
	ALKUP 364702N 0510409E
	NOSHAHR (NSR) 363946.1N 0512751.4E
	IMKER 363938N 0515239E
	MODEK 363918N 0523407E
	DASHTE NAZ (DNZ) 363853.6N 0531120.1E
	GORGAN (GGN) 365544.7N 0542233.3E
	LOVEN 363926N 0553355E
	ODKOL 363136N 0560702E
	SABZEVAR (SBZ) 361011N 0573414.9E
	LOXED 355854N 0580609E
	RIBUX 360112N 0582647E
	MASHHAD (MSD) 361352.2N 0593902E
	SOGES 351600N 0595822E
	SOKAM 331316N 0603754E
A418	KUMUN 254000N 0551515E
	PAPAR 264000N 0542700E
	*Note 7 (OI and OM)
	Segment KUMUN-PAPAR
	SHIRAZ (SYZ) 293224N 0523520E
A422	UROMIYEH (UMH) 374114N 0450503.7E
	RABEM 374841N 0452949E
	SETNA 375615N 0455522E
	TABRIZ (TBZ) 380853.5N 0461246.6E
	MURID 382744N 0463525E
	DARUN 383339N 0464235E
	DASDA 384135N 0465214E
	PARSABAD-E-MOGHAN (PAD) 393443N 0475803E
	PARSU 393748N 0480448E
A424	LOVEK 322208N 0444001E
	LOTAN 295942N 0433848E
	RAFHA (RAF) 293713N 046074632953E
	LUDEP 290948N 0430646E
	TAMRO 283838N 0424047E
	SIKLI 275801N 0420721E
	HAIL (HIL) 272530N 0414059E
	*Note 7 (JDW-HIL)
	HAMED 265133N 0411706E
	LAKRO 263051N 0410241E
	ORMAD 260353N 0404401E
	GOMRA 253656N 0402534E
	MIXUG 251537N 0401104E
	MADINAH (PMA) 243251N 0394219E
	DEGVU 234245N 0393941E
	ORMEK 233454N 0393917E
	RULEB 230059N 0393731E
	DATAP 223927N 0392910E
	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
A453	(GADER 294100N 0612800E)
	PIRAN 293407N 0612809E
	ZAHEDAN (ZDN) 292912.3N 0605405.7E
	ULOVI 291948N 0603429E
	DANOV 291444N 0602357E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	PEKES 285929N 0595221E
	NABOX 281630N 0582601E
	DAVEP 274226N 0572009E
	BANDAR ABBAS (BND) 271149.4N 0562200.3E
	PAVON 270206N 0561149E
	GHESHM ISLAND (KHM) 264547.1N 0555427.6E
	*Note 7 (KHM-BAH)
	SERDU 264715N 0545757E
	ROSUM 264741N 0543637E
	KAPIP 264322N 0521403E
	MIDSI 264142N 0515442E
	BOTOB 263350N 0514505E
	SOLOB 262241N 0513132E
	TOBLI 262134N0512301E
	SOGAT 262029N 0511443E
	RIKET 261952N 0510954E
	ASTAD 261812N 0505646E
	BAHRAIN (BHR) 261530N 0503919E
	ELOSO 262409N 05035501E
	EGMOR 264211N 05029067E
	LOTOR 264854N 0502200E
	RAMSI 270249N 0500714E
	ORNAK 2728534N 0493248E
	SOLEM 275229N 0491136E
	KUMBO 281705N 0485526E
	GESAK 283430N 0484353E
	DEBTI 284407N 04829245E
	KUWAIT (KUA) 291457N 0475717E
A454	(PARET 252518N 0645102E)
	*Note 7 (PARET-PASOV)
	TAPDO 242400N 0612000E
	VUSET 235540N 0590812E
	UMEKO N240620 E0583450
	BORER N242623 E0573048
	PASOV 243841N 0565037E
A647	NAZAR 363929N 0601926E
	MASHHAD (MSD) 361352.2N 0593902.0E
	SABZEVAR (SBZ) 361011.0N 0573414.9E
	MITUS 360535N0565748E
	ULANO 354937N 0550052E
	ODKAT 354650N 0544146E
	MIRUR 354221N 0541139E
	RAPKI 353454N 0532208E
	BUBUX 353023N0524814E
	VARAMIN (VR) 352033.6N 0513813.8E
	IMAMKHOMAINI (IKA) 352434.8N 0511042.5E
	RUDESHUR (RUS) 352643.7N 0505419.3E
	LOXAM 350415N 0491601E
	HAMADAN (HAM) 345200.8N 0483301.0E
	KERMANS SHAH (KMS) 342023.0N 0471008.9E
	RAGET 333048N 0455348E
A727	CAIRO (CVO) 300532N 0312318E
	SOLAM 294201N 0313106E
	RASMI 285901N 0314506E
	SEMUR 280200N 0320306E
	NABED 271801N 0321706E
	LUXOR (LXR) 254458N 0324607E
	BOVAR 244140N 0322419E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	LOPID 231900N 0315530E
	ABU SIMBLE (SML) 222118N 0313719E
	NUBAR 220000N 0313806E
	MEROWE (MRW) 182449N 0314949E
	ALPOX 171131N 0320831E
	GOPDA 161115N 0325135
	GAGNI 135430N 0324706E
	KHARTOUM (KTM) 153358N 0323312E
	KENANA (KNA) 130141N 0325423E
	AVONO 092606N 0335418E
	KUTOP 080407.80N 0341704.20E
	EPSIX 063808N 0344002E
	AMATO 051836N 0350124E
	ANTAX 040000N 0352248E
	LODWAR (LOV) 030627N 0353646E
A775	REXOD 211230N 0613830E
	TUMET 222307N 0595702E
	IMDEK 224647N 0592217E
	OBTIN 230216N 0585920E
	*Note 7 (OBTIN-KUSRA)
	KUSRA 232426N 0582611E
A777	TONVO 250500N 0563200E
	*Note 7 (TONVO-VAXIM)
	BUBAS 245938N 0570003E
	NADSO 244957N 0574926E
	MUNGA 242516N 0584533E
	MIXOL 240523N 0592959E
	VAXIM 231900N 0611100E
A788	HALAIFAH (HLF) 262603N 0391609E
	LOXOR 270903N 0410002E
	HAIL (HIL) 272530N 0414059E
	ORNIL 273503N 0422443E
	TOTAD 275043N 0433904E
	LOXOM 275648N 0440832E
	LOTOK 280834N 0450402E
	HAFR AL BATIN (HFR) 282126N 0460703E
	*Note 7 (HFR-PATIR)
	DERKO 282751N 0465213E
	SOROR 283417N 0473932E
	WAFRA (KFR) 283715N 0475729E
	DEBTI 284407N 0482925E
	BOXIK 284814N 0484734E
	DANAL 285128N 0490450E
	RETEL 285236N 0491048E
	PATIR 285606N 0492923E
	KHARK ISLAND (KHG) 291550N 0501900.7E
	IVERA 292303N 0511540E
	RUBAK 292617N 0514218E
	SHIRAZ (SYZ) 293224.6N 0523519.6E
A791	LALDO 251806N 0563600E
	GIDIL 251742N 0564923E
	IMLOT 251708N 0570804E
	KATUS 251600N 0574700E
	PEDEX 251211N 0592131E
	KINOX 250945N 0600942E
	EGPIC 250811N 0603730E
	EGRON 250444N 0613245E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	(BIVIN 250349.80N 0614744.40E)
B121	OXADU 350837N 0511226E RUDESHUR (RUS) 352643.7N 0505419.3E VEBER 354209N 0504400E DAVMI 355657N 0503401E PAXID 361703N 0502021E ALTIV 364131N 0500330E RARTA 365323N 0495516E RASHT (RST) 371934.8N 0493657.1E SIVIT 373553N 0490511E DASDA 384135N 0465214E MAGRI 385408N 0462300E
B400	MUSCAT (MCT) 233528.04N 0581536.48E ITURA 232351N 0580720E GEPOT N232351 E0580720 GEVED N231446 E0580053 IZKI (IZK) 225318.6N 0574542.73E DARAT N222000 E0572830 KEBAS N214330 E0570948 ITSAG N213720 E0570640 MEVLI N211632 E0565606 VUTAP N205411 E0564449 ORSIT N202306 E0562915 HAIMA (HAI) 195813.31N 0561650.82E *Note 7 (HAI-DAXAM) KUKDI N193022 E0555953 ITUVO N190315 E0554328 LABED N182135 E0551827 ASTUN 180832N0551040E DAXAM 171612N 0544715E MUTVA 165325N 0543201E IMKAD 155245N 0535147E NODMA 152603N 0533359E RIGAM 143932N 0530414E RAPDO 132317N 0521532E VEDET 120134N 0512420E (MOGADISHU) MOGDU 020024N 0451736E
B403	(AXIKU 112332N 0493519E) BOMIX 121002N 0502757E ODBEN 123747N 0505648E KAVAN 133250N 0515431E RIGAM 143932N 0530414E
B404	(ESTIK 112206N 0471854E) DEMGO 120258N 0483040E PURKA 131208N 0503042E GESIX 134440N 0512823E RIGAM 143932N 0530414E
B407	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E DENBU 210129N 0382031E KAROX 205717N 0381547E MAHDI 202600N 0373918E PORT SUDAN (PSD) 192404.12N 0371430.21E
B411	TAKSU 293625N 0343623E *Note 7 (TAKSU-ULINA) KARIK 292633N 0344541E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ULINA 292451N 0345818E
	ELETA 293201N 0352900E
	TAMIM 293640N 0354840E
	PETRA 294206N 0362210E
	DEESA 294509N 0364102E
	OBSOT 295451N 0373455E
	AL SHIGAR (ASH) 300722N 0384753E
	NEVOL 302446N 0393841E
	KAVID 303552N 0401147E
	ARAR (AAR) 305429N 0410832E
	MURIB 311337N 0415136E
	RALTI 314208N 0430001E
	RUKAM 315008N 0431938
	ELODI 320256N 0435126E
	LOVEK 322208N 0444001E
	LONOR 323839N 0450458E
	NOLDO 324932N 0452129E
	PAPUS 325334N 0452707E
	PAXAT 332056N 0460519E
	ILAM (ILM) 333442.3N 0462455.4E
	YASER 335850N 0470456E
	IVELI 343459N 0482952E
	DAXIL 345135N 0493454E
	SAVEH (SAV) 350106.8N 0502216.9E
	SOGOL 350829N 0503128E
	OXADU 350837N 0511226E
	NAGIN 350619N 0515308E
	DEHNAMAK (DHN) 3515145N 05243132E
	*Note 7 (DHN-MSD)
	GIBAB 353213N 0543656E
	ITELO 353534N 0550052E
	RABAM 355442N 0572955E
	LOXED 355854N 0580609E
	RIBUX 360112N 0582647E
	MASHHAD (MSD) 361352.2N 0593902E
	TANBU 353422N 0603430E
	PAMTU 351006N 0610806E
B412	HALAIFA (HLF) 262603N 0391609E
	RABIGH (RBG) 224731N 0390550E
	[KING ABDULAZIZ] (JDW) 214244N 0390723E
B413	LADEN 185342N 0380506E
	(DULAB 181006N 0390018E)
	KOBAS 170428N 0402029E
	DANAK 160800N 0412900E
	RIBOK 154700N 0415230E
	ERSAL 151352N 0422905E
	MIPIN 150608N 0423735E
	HODEIDAH (HDH) 144622.10N 0425911.10E
	UKNAN 141839N 0432901E
	ULBIR 135919N 0434940E
	TAIZ (TAZ) 134150N 0440819E
	GOMRI 131816N 0443224E
	ADEN (KRA) 124952.20N 0450125E
	UMEBU 121559N 0452325E
	ZIZAN 115136N 0453912E
B415	DOHA HAMAD INTL (DOH) 251459.66N 05136354.80E
	*Note 8 (DOH-BUNDU)
	KUPSA 250445N 0521151E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	BUNDU 250024N 0522924E
	*Note 7 (BUNDU-SIXIV)
	ASNAX 245659N 0524054E
	EGPOG 244727N 0531950E
	UKILI 243815.5N 0535636.4E
	KUGTO 243231N 0542224E
	RURAL 243045N 0543156E
	SIXIV 242009N 0550439E
B416	KUWAIT (KUA) 291457N 0475717E
	*Note 7 (KUA-KUVER)
	BOXIK 284814N 0484734E
	IMDOX 283455N 0491438E
	AMBIK 283222N 0492025E
	*Note 8 (AMBIK-KUVER)
	KUVER 280924N 0500600E
	IMDAT 274100N 0511100E
	DURSI 271219N 0520144E
	PEGET 270434N 0521515E
	EGMIT 263340N 0530825E
	LEVNA 261535N 0533857E
	ORSAR 260430N 0535730E
	PEBAT 255153N 0542357E
	DESDI 253603N 0544230E
B417	EGVEL 344258N 0503005E
	UKITA 330657N 0500041E
	IMKEN 314407N 0493611E
	BANDAR MAHSHAHR (MAH) 303322.8N 0490858E
	UKNAR 295538N 0490450E
	TULAX 293853N 0490301E
	DESLU 292800N 0490150E
	EGVAL 292448N 0484545E
	ALVAX 292030N04824+22E
	KUWAIT (KUA) 291457N 0475717E
	*Note 3
	BONIM 285929N 0472925E
	BOSID 284234N 0465228E
	HAFR AL BATIN (HFR) 282126N 0460703E
	KING SAUD AB (KMC) 275250N 0453321E
	EMARO 273342N 0451330E
	ALKIR 270758N 0444343E
	RARLO 265939N 0443410E
	ASNID 264600N 0441835E
	GASSIM (GAS) 261753N 0434647E
	*Note 7 (JDW-GAS)
	AMBIV 254816N 0431649E
	KINOB 253146N 0430018E
	KURDO 245306N 0422158E
	BIR DARB (BDB) 241951N 0414928E
	ASVIV 235532N 0412121E
	DASOR 234116N 0410459E
	PATOR 231639N 0403657E
	EGREP 222754N 0395007E
	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
B419	KING FAHD (KFA) 262951N 0494643E
	*Note 7 (KFA-RAMSI)
	NAGTO 263717N 0495137E
	KASES 264538N 0495709E
	ITESA 265016N 0500014E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	METLA 265645N 0500433E
	RAMSI 270249N 0500714E
B424	ITOLI 152825N 0450927E
	MEGPA 160017N 0461653E
	LABRA 161813N 0465113E
	IMTAN 163253N 0471943E
	ALSOD 164203N 0473753E
	TASBI 165853N 0481118E
	KANEM 173700N 0492655E
	IMPOS 183137N 0511848E
	SABEL 185158N 0520339E
	NOVNO 193313N 0535858E
	OTISA 201000N 0554556E
	KASIN 201853N 0555742E
	VELIK 203322N 0561656E
	TUBSA 204029N 0562626E
	VUTAP 205411N 0564449E
	*Note 7 (VUTAP-GISKA)
	GISKA 213503N 0574014E
B441	NABOX 281630N 0582601E
	SILKO 295558N 0584138E
	BOPAG 304413N 0584929E
	KUVAV 313426N 0585747E
	BIRJAND (BJD) 325820.7N 0591200.5E
	BOPEB 331913N 0591448E
	ASVIS 334633N 0591828E
	NOTSO 351416N 0593034E
	MASHHAD (MSD) 361352.2N 0593902E
	ALMUX 362736N 0605121E
	OTRUZ 363108N 0610956E
	MARAD 363730.6N 06127.48E
B451	DEHNAMAK (DHN) 3515145N 0524312E
	RAPKI 353454N 0532208E
	ITMEL 360729N 0542812E
	SHAHROUD (SHR) 362522.3N 0550519.5E
	RIBOB 371705N 0565226E
	BOJNORD (BRD) 372942.2N 0571923.8E
	DEBER 375006N 0580200E
	(ASHGABAT) (ASB) 380011N 0582008E
B457	NARMI 261802N 0501939E
	BAHRAIN (BHR) 261530N 0503919E
	TULUB 260644N 0510041E
	DENVO 260452N 0510509E
	PATOM 255821N 0511836E
	EMISA 254658N 0514207E
B505	LALDO 251806N 0563600E
	*Note 7/8 (LALDO-PASNI)
	NADSO 244957N 0574926E
	ITLOB 244325N 0590701E
	EGTAL 243458N 0603724E
	APELO 243455N 0612000E
	(PASNI (PI) 251717N 0632055E)
B524	NADSO 244957N 0574926E
	*Note 7 (NADSO-ALPOR)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	DAMUM 243236N 0591307E
	ASLOM 242113N 0600552E
	VEKAN 241235N 0604454E
	ALPOR 240441N 0612000E
B526	KHARTOUM (KTM) 153358N 0323312E
	DENDI 153006N 0341642E
	KASSALA (KSL) 152427.47N 0362014.05E
	TESON 152054N 0371042
	(ASMARA (ASM) 151704.01N 0385402.92E)
	(ZULAC 150136N 0410106E)
	(PURAD 145500N 0415354E)
	FARES 145400N 0420100E
	EMABA 145138N0421943E
	HODEIDAH (HDH) 144622.10N 0425911.10E
	UMILI 144609N 0435133E
	SOKAT 144606N 0440145E
	PAVEN 144602N 0441112E
	OBNAM 144541N 0444448E
	PEBIX 144447N 0454637E
	DASIT 144412N 0462931E
	IVORA 144342N 0470342E
	MEGPO 144257N 0473438E
	RASBA 144124N 0484128E
	MUKALLA (RIN) 144015.30N 0492329.30E
	DANAN 144010N 0495334E
	KUSOL 144009N 0501534E
	TATNA 144000N 0515200E
	RIGAM 143932N 0530414E
B527	KHARTOUM (KTM)153358N 0323312E
	SUVRI 135436N 0321800E
	RABAK 130110N 0320957E
	MALAKAL (MLK) 093347.40N 0313911.41E
	JUBA (JUB) 045234N 0313559E
	OVELA 040000N 0311454E
	GOTOD 014501.20N 0305149.80E
B535	JUBA (JUB) 045234N 0313559E
	TAPOS 055408N 0332002E
	DAGAP 062400N 0341200E
	(EPSIX 064014N 0343956E)
	(IMTOR 064641N 0345102E)
	(APKOD 074053N 0362448E)
	(KOFTA 081258N 0372041E)
	(ITPOT 084406N 0380951E)
	(GAWASA (GWZ) 090622.33N 0384611.71E)
	(ASOLE 095626N 0401357E)
	(NIDEG 103632N 0412400E)
	(LAKBE 110224N 0420939E)
	(DJIBOUTI (DTI) 1132545.67N 04305336.77E)
	(KASOL 115248N 0433546E)
	TORBA 121036N 0440206E
	KATAN 122724N 0442728E
	ADEN (KRA) 124952.20N 0450125E
	BANAR 130604N 0453855E
	TAMIM 134751N 0471703E
	ULAXI 141524N 0482317E
	BAROM 142432N 0484533E
	MUKALLA (RIN) 144015.30N 0492329.30E
	NAKAD 150056N 0500402E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	EGMIX 151811N 0503810E
	NANRI 160754N 0521603E
	ASMAK 162327N 0524634E
	KAPET 163322N 0530614E
	LADAR N165324 E0534655
	SALALAH (SLL) 170259.35N 0540656.91E
	*Note 7 (ASTUN-SLL)
	DARAB 174632N 0544902E
	ASTUN 180832N 0551040E
B538	ALEPPO (ALE) 3610476.86N 03712343.76E
	KARIATAIN (KTN) 3412487.82N 0371551.15E
B540	GERAR 240600N 0573616E
	*Note 7 (GERAR-MIVEK)
	DEGNU 242734N 0570613E
	PASOV 243841N 0565037E
	KUPMA 245148N 0562648E
	ORKOB 245309N 0562421E
	MIVEK 245240N 0561516E
B541	LAR (LAR) 274030.7N 0542454.7E
	NABEX 271157N 0541334E
	DELBU 265021N 0540506E
	KISH ISLAND (KIS) 263130.6N 0535744.7E
	ORSAR 260430N 0535730E
B544	(KILIS 364213N 0372402E)
	TUSYR 363915N 0372341E
	ALEPPO (ALE) 361047N 0371234E
	TUDMU 343100N 0380754E
	TANF (TAN) 332900N 0383939E
	NAMBO 331826N0383939E
	DAPUK 330139.44N 0384026.29E
	MODAD 323539.88N 0384138.14E
	SODAR 315602N 0384326E
	TURAI (TRF) 314146N 0384408E
	ORKAS 304725N 0384617E
	AL SHIGAR (ASH) 300722N 0384753E
	LABAD 291922N 0385411E
	ENABI 290639N 0385550E
	SOBAS 275600N 0390453E
	HALAIFA (HLF) 262603N 0391609E
	*Note 7 (PMA-HLF)
	BELAL 254629N 0392523E
	ALTEP 252157N 0393103E
	MADINAH (PMA) 243251N 0394219E
	*Note 7 (PMA-JDW)
	SISUD 234505N 0392538E
	ASLAD 233742N 0392305E
	RABIGH (RBG) 224731N 0390550E
	NOMDA 224257N 0390556E
	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
	*Note 7 (NOBSU-JDW)
	BOSUT 204705N 0393158E
	LOVIL 201553N 0394537E
	TORBI 195514N 0401610E
	QUNFIDAH (QUN) 192211N 0410429E
	RABGO 191452N 0411452E
	ITESO 184436N 0415732E
	ABHA (ABH) 181431N 0423925E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	LALGI 173029N 0430453E
	NOBSU 171554N 0431315E
	MIXON 163035N 0432931E
	IMSIL 155738N 0434112E
	IMKAR 153511N 0435039E
	MUTEX 152524N 0435445
	NAGIL 152024N 0435651E
	MISAN 150001N 0440522E
	PAVEN 144602N 0441112E
	GEVEL 141229N 0442547E
	MOGEM 132655N 0444529E
	ADEN (KRA) 124952.20N 0450125E
B549	THAMUD 171700N 0495500E
	ITELI 171310N 0502605E
	GOGRI 170752N 0510857E
	TONRO 165850N 0522235E
	PUTRA 165432N 0525631E
	LADAR 165324N 0534655E
	MUTVA 165325N 0543201E
	KIVEL 165306N 0553633E
G55	ABADAN (ABD) 302231.1N 0481314.2E
	UKNAR 295538N 0490450E
	KHARK ISLAND (KHG) 291550.0N 0501900.7E
	BUSHEHR (BUZ) 285704.7N 0504933.5E
	TOTNO 291052N 0515336E
	SHIRAZ (SYZ) 293224.6N 0523519.6E
G183	(KAROL 3252.00N 03229.00E)
	PASOS 311300N 0330600E
	NADOL 311734N 0334100E
	EL ARISH (ARH) 310423N 0334955E
	TABA (TBA) 293624N 0344751E
G202	(VELOX 3349.00N 03405.00E)
	SILKO 3347.9N 03435.0E
	ELIKA 334455N 0343500E
	KHALDEH (KAD) 334827N 0352910E
	*Note 4 (OS)
	DAKWE 3338.957N 03554595.0E
	DAMASCUS (DAM) 332154N 0362807E
	SOFIA 332301N 0364941E
	ABBAS 332610N 0374320E
	SULAF 332718N 0381027
	TANF (TAN) 332900N 0383920E
	MODIK 332806.1N 0390100E
	RAPLU 332300N 0414530E
	PUSTO 332100N 0424500E
	DELMI 331918N 0431328E
	LAGLO 331539N 0441457E
	ITOVA 331951N 0444129E
	SINKA 332137N 0444753E
	RAGET 333048N 0455348E
	ILAM (ILM) 333442.3N 0462455.4E
	ALTET 333209N 0470047E
	MIPON 332801N 0475344E
	KHORAM ABAD (KRD) 332603.1N 0481730.7E
	UKSIS 332159N 0484002E
	NOTSA 331745N 0490315E
	RASLA 331202N 0493409E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	UKITA 330657N 0500041E
	BOMID 325904N 0504029E
	IMRAG 325142N 0511643E
	ESFAHAN (ISN) 334449.1N 0514940.8E
	PARUG 324704N 0522947E
	LABOT 324839N 0530053E
	ALNER 325124N 0540202E
	MITET 325226N 0542850E
	NODLA 325330N 0545850E
	ORSOK 325502N 0554532E
	IMSOG 325636N 0564649E
	ROSOS 325815N 0584814E
	BIRJAND (BJD) 325820.7N 0591200.5E
	KAMAR 323900N 0604400E
G208	(PANJGUR (PG) 265710.21N 0640813.06E)
	KEBUD 273552N 0625024E
	DANIB 290706N 0611717E
	ZAHEDAN (ZDN) 292912.3N 0605405.7E
	DAPAP 294630N 0602554E
	TOVUS 300643N 0595235E
	BOPAG 304413N 0584929E
	DARBAND (DAR) 314659.4N 0565940.4E
	NIVRA 315905N 0563810E
	SOGOT 324008N 0552339E
	NODLA 325330N 0545850E
	ROVAD 333131N 0535240E
	RADAL 345423N 0522023E
	ELEDI 350136N 0520356E
	IMAM KHOMAINI (IKA) 352434.8N 0511042.5E
	VEBER 354209N 0504400E
	GOLNU 355711N 0502052E
	PAROT 361128N 0495841E
	LOXUB 363640N 0484942E
	ZANJAN (ZAJ) 364646.8N 0482111.9E
	AMBEX 370356N 0472143
	GETOB 371227N 0465129E
	PARAS 373133N 0454134E
	TOTBO 373455N 0452858E
	UROMIYEH (UMH) 374114N 0450503.7E
	ALRAM 374230N 0443736E
	(SIIRT)
G216	LAKLU 232235N 0570401E
	IVAKU 232919N 0574103E
	MUSCAT (MCT) 233528.04N 0581536.48E
	*Note 7 (LAKLU-SIDKA)
	ITILA 234055N 0584817E
	SODEB 234747N 0593023E
	DERTO 235033N 0594746E
	ALPOR 240441N 0612000E
	(SIDKA 240844N 0614745E)
G452	SHIRAZ (SYZ) 293224.60N 0523519.60E
	NALBI 294650N 0535357E
	RIKAS 295337N 0543224E
	DAVUT 300214N 0552301E
	GETIS 301145N 0562226E
	KERMAN (KER) 301658.1N 0465632.3E
	ALKES 301045N 0573025E
	ORDAD 300608N 0575454E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	SILKO 295558N 0584138E
	DANUS 293628N 0602030E
	ZAHEDAN (ZDN) 292912.3N 0605405.7E
	DERBO 292542N 0611701E
	(SOKIR 290801N 0642502E)
G462	ROVOS 241825N 0552143E
	*Note 7 (ROVOS-TUMAK)
	TUBGO 242403N 0551219E
	ULODA 243530N 0545301E
	KUVDA 244309N 0543909E
	ORBOL 245134N 0542348E
	UKUVO 251228N 0534707E
	OXARI 252535N 0533458E
	PURLI 253644N 0532436E
	TUMAK 255031N 0531108E
G482	TABRIZ (TBZ) 380853.5N 0461246.6E
	MAGRI 385408N 0462300E
G650	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
	RIBAM 204231N 0390551E
	RASKA 190732N 0390329E
	(DULAB 181006N 0390018E)
G652	ADEN (KRA) 124952.20N 0450125E
	IVOSO 131734N 0453107E
	BORIL 132617N 0454029E
	IVORA 144342N 0470342E
	MEMTA 150322N 0472434
	DEKMA 152226N 0474553E
	NABUP 155417N 0482143E
	DANIN 160544N 0483438E
	GIBAX 162047N 0485137E
	IVINA 163253N 0490514E
	THAMD 171700N 0495500E
	IMPOS 183137N 0511848E
	DUDRI 190000N 0520000E
	*Note 7 & 8 (NALKI-DUDRI)
	DAVOX 194400N 0524817E
	MIPUB 200004N 0530607E
	GEROL 201443N 0532243E
	OBSUS 203905N 0534952E
	LONOV 211856N 0543516E
	KOBES 214504N 0550526E
	TOKRA 220925N 0553350E
	*Note 7 (NALKI - TOKRA)
	DEBAV 221532N 0554617E
	DATBU 222243N 0560054E
	NAMVA 223309N 0562223E
	NALKI 224928N 0565614E
	TULBU 230005N 0571827E
	GEPOT 231446N 0580053E
	KUSRA 232426N 0582611E
	SODEB 234747N 0593023E
	*Note 7 (TAPDO-SODEB)
	VEKAN 241235N 0604454E
	TAPDO 242400N 0612000E
G656	JUBA (JUB) 045234N 0313559E
	ATUGA 040000N 0314800E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
G660	(ARBEG 131355N 0205740) GENEI 132859N 0222748E EL FASHIR (FSR) 133554.09N 0251810.66E EL OBEID (OBD) 130640.53N 0301335.25E IMSUT 142048N 0312230E RADKA 145006N 0315040E KHARTOUM (KTM) 153357.93N 0323312.16E BOPID 163948N 0335142E PORT SUDAN (PSD) 192404.12N 0371430.21E BOGUM 200636N 0380300E MIPOL 203322N 0382145E *Note 7 (MILPO-JDW) EGMEG 205130N 0383336E JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
G662	BUSRA 322000N 0363700E KUPRI 320826N 0364530E DESLI 314900.10N 0365900.60E ALKOT 313254N 0371122E GURIAT (GRY) 312445N 0371712E *Note 7 (ASH-GRY) AL SHIGAR (ASH) 300722N 0384753E ODBAT 293221N 0392626E NIMAR 290635N 0395425E EGVOP 275458N 0411024E HAIL (HIL) 272530N 0414059E DAROP 270505N 0421936E MODIV 263842N 0430840E GASSIM (GAS) 261753N 0434647E *Note 7 (GAS-KIA) KUSRO 255138N 0444328E VELOS 252126N 0454712E KING KHALID (KIA) 245310N 0464534E
G663	UMENA 262832N 0483952E TABTA 262837N 0484325E *Note 7 (TABTA-ULADA) KING FAHD (KFA) 262951N 0494643E RABKA 263531N 0495728E *Note 8 (ALSER) ULADA 264527N 0501624E LOTOR 264854N 0502200E RAKAK 265221N 0502618E TOLMO 265504N 0502927E KOBOK 265839N 0503349E GETAL 270410N 0504040E *Note 7 (DASDO-GETAL) VEDOR 270855N 0504630E ALSER 271100N 0504900E IMDAT 274100N 0511100E DEPSU 283409N 0515047E DASDO 285401N 0520551E SHIRAZ (SYZ) 293224.6N 0523519.6E KINOT 303207N 0531731E DEDAK 305600N 0533439E BONEG 312826N 0535815E YAZD (YZD) 315351.6N 0541657.7E BOMIT 321257N 0544414E DANEM 322854N 0550717E SOGOT 324008N 0552339E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ORSOK 325502N 0554532E
	ALMUD 331758N 0561941E
	RIBEN 332902N 0563620E
	TABAS (TBS) 334021.2N 05653340.9E
	PATEN 340825N 0572334E
	TASLU 342531N 0574131E
	RAMIL 352909N 0584941E
	MASHHAD (MSD) 361352.2N 0593902E
G665	ARAR (AAR) 305429N 0410832E
	ABADAN (ABD) 30221631.1N 048134214.2E
	DEMPO 301717N 0484329E
	VATAN 300800N 0493533E
	BOTAS 295241N 0505515E
	KAVIL 294820N 0511704E
	EGSIR 294615N 0512735E
	SHIRAZ (SYZ) 293224.6N 0523519.6E
	*Note 5 (OI)
	VAVAS 291650N 0535340E
	BOTUX 285828N 0552205E
	SOLAK 285156N 0555215E
	ASMET 284758N 0561019E
	NANTO 284140N 0563831E
	RIGUT 283136N 0572226E
	NABOX 281630N 0582601E
	LOXOL 274556N 0604538E
	ASVIB 265724N 0631812E
	(PANJGUR (PG) 265710.21N 0640813.06E)
G666	SHIRAZ (SYZ) 293224.6N 0523519.6E
	KUPTO 282418N 0525432E
	LAMERD (LAM) 272222.2N 0531102.3E
	LAVAN ISLAND (LVA) 264843.4N 0532121.1E
	DATUT 263332N 0533538E
	ELIRA 262105N 0534502E
	ORSAR 260430N 0535730E
	LUDAM 255508N 0535859E
	KIVUS 254522N 0540032E
	TOTKU 253534N 0540410E
	ULIVA 252647N 0540611E
	VEGEK 251837N 0540803E
	REVAV 250909N 0541012E
	ITOMI 250152N 0541151E
	ELOVU 245721.3N 0542017.5E
G667	PUTMA 374800N 0515736E
	NOSHAHR (NSR) 363946.1N 0512751.4E
	DANEB 362001N 0512408E
	NAGMO 360214N 0512055E
	TEHRAN (TRN) 354149.1N 0511701.6E
	RUDESHUR (RUS) 352643.7N 0505419.3E
	SOGOL 350829N 0503128E
	SAVEH (SAV) 350106.8N 0502216.9E
	ARAK (ARK) 3408143.9N 04951143.8E
	RASLA 331202N 0493409E
	ALTAX 323014N 0492142E
	NAGRO 321015N 0491549E
	RABIM 315839N 0491225E
	EGVAX 314337N 0490802E
	AHWAZ (AWZ) 312015.3N 0484552.5E
	GABSU 305319N 0483035E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ABADAN (ABD) 30221631.1N 048134214.2E
	ALSAN 295707N 0481456E
	RALKA 292611N 0481819E
	KUWAIT (KUA) 291457N 0475717E
	WAFRA (KFR) 283715N 0475729E
	*Note 7 (KFR-KIA)
	KATOD 283141N 0475554E
	COPPI 275033N 0474359E
	EMENI 273234N 0473848E
	RADGI 272640N 0473708E
	MANNI 270812N 0473152E
	LUGAL 264603N 0472235E
	MAGALA (MGA) 261720N 0471225E
	AVOBO 260334N 0470719E
	ESRAT 255117N 0470247E
	KING KHALID (KIA) 245310N 0464534E
	MUNTO 235345N 0463459E
	DEBAS 231059N 0462728E
	KITUB 224922N 0462342E
	TABNA 211842N 0453653E
	WADI ALDAWASIR (WDR) 203019N 0451219E
	TASMU 190016N 0450120E
	NEJLAN (NEJ) 173625N 0442456E
	NETAS 172600N 0442305E
	ELONA 165753N 0442124E
	LABDO 164842N 0442032E
	XABIP 161001N 0441653E
	ASREM 154637N 0441443E
	SANAA (SAA) 153000N 0441311E
	MISAN 150001N 0440522E
	SOKAT 144606N 0440145E
	DEPDA 143206N 0435807E
	ULBIR 135919N 0434940E
	PARIM 123142N 0432712E
	(DJIBOUTI (DTI) 113254.67N 0430536.77E)
G669	AL SHIGAR (ASH) 300722N 0384753E
	AL JOUF (AJF) 294722N 0400418E
	VELAL 294602N 0403821E
	PAXAN 294418N 0411833E
	TOKLU 294213N 0420220E
	RAFHA (RAF) 293713N 0432953E
	NISER 293030N 0441825E
	*Note 3 (OK)
	SOLAT 290942N 0463810E
	BUBER 291118N 0470057E
	KUWAIT (KUA) 291457N 0475717E
	SESRU 290909N 0485450E
	NANPI 290457N 0493157E
	VELUT 291001N 0495341E
	KHARK ISLAND (KHG) 291550N 0501900.7E
	IVERA 292303N 0511540E
	RUBAK 292617N 0514218E
	SHIRAZ (SYZ) 293224.6N 052352019.6E
G670	RASHT (RST) 371934.8N 0493657.1E
	MODIL 374925N 0494117E
	LALDA 381615N 0494511E
G674	MADINAH (PMA) 243251N 0394219E
	*Note 7 (BPN-PMA)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	KUKNI 245451N 0403140E
	EMURI 250545N 0405627E
	ROSUL 253945N 0421519E
	MUNPI 260112N 0430621E
	GASSIM (GAS) 261753N 0434647E
	MOBAD 263607N 0442629E
	SERPU 264608N 0444833E
	BOPAN (BPN) 270314N 0452643E
G775	ASHGHABAT (ASB) 380011N 0582008E
	ORPAB 374200N 0583430E
	MIDMO 370543N 0590124E
	MASHHAD (MSD) 361352.2N 0593902E
	NOTSA 351416N 0593034E
	ASVIS 334633N 0591828E
	BOPEB 331913N 0591448E
	BIRJAND (BJD) 325820.7N 0591200.5E
	*Note 1
	ODBES 323050N 0592556E
	ELOKA 312325N 0595922E
	LUDAX 295658N 0604101E
	ZAHEDAN (ZDN) 292912.3N 0605405.7E
G781	(VAN)
	BONAM 380256300N 0441759800E
	TUDNU 375301N 0444447E
	UROMIYEH (UMH) 374114N 0450503.7E
	TUBAR 373018N 0452609E
	ROVON 371601N 0455322E
	ZANJAN (ZAJ) 364646.8N 0482111.9E
	LABKA 364142N 0504342E
	NOSHAHR (NSR) 363946.1N 0512751.4E
G782	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
	*Note 7 (KFR-JDW)
	KAPAV 220645N 0394620E
	VEMEM 221554N 0400118E
	BOPEV 225127N 0410011E
	DAFINAH (DFN) 231658N 0414310E
	ASMUN 233116N 0424514E
	TUKVU 234626N 0435319E
	RAGAHBA (RGB) 235533N 0443547E
	DURMA 242710N 0454610E
	KING KHALID (KIA) 245310N 0464534E
	ESRAT 255117N 0470247E
	AVOBO 260334N 0470719E
	MAGALA (MGA) 261720N 0471225E
	LUGAL 264603N 0472235E
	MAANI 270812N 0473152E
	RADGI 272640N 0473708E
	EMENI 273234N 0473848E
	COPPI 275033N 0474359E
	KATOD 283141N 0475554E
	WAFRA (KFR) 283715N 0475729E
	KUWAIT (KUA) 291457N 0475717E
G783	PURDA 210805N 0510329E
	ASNUR 212654N 0514335E
	SILBU 214512N 0522304E
	ALROK 215400N 0524217E
	IMGOV 221828N 0533624E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	DANUX 223605N 0541558E
	TANSU 224136N 0542828E
	RIGIL 230146N 0551430E
	UKRAG 233056N 0552306E
	ELUDA 235107N 0552905E
	ASPED 240036N 0553154E
	VAVIM 241535.1N 0553622.9E
	*Note 7 (GIDIS-VAVIM)
	DESVU 242222N 0554253E
	GIDIS 243600N 0555600E
G792	BODKA 3939.0N 05130.0E
	GIRUN 380612N 0562018E
	BOJNORD (BRD) 372942.2N 0571923.8E
	SILPO 370806N 0580006E
	BOTEK 364755N 0583734E
	MASHHAD (MSD) 361352.2N 0593902E
	TANBU 353422N 0603430E
	PAMTU 351006N 0610806E
G795	RALKA 292611N 0481819E
	*Note 7 (RALKA-BSR)
	TASMI 300120N 0475505E
	BASRAH (BSR) 303132.30N 0472112.10E
	RAFHA (RAF) 293713N 0432953E
G799	MADINAH (PMA) 243251N 0394219E
	*Note 7 (ELONU-PMA)
	ELONU 240942N 0403053E
L124	(VAN)
	BONAM 380256300N 0441759800E
	TUDNU 375301N 0444447E
	PARAS 373133N 0454134E
	GETOB 371227N 0465129E
	AMBEX 370356N 0472143
	ZANJAN (ZAJ) 364646.8N 0482111.9E
	TULGU 362836N 0484235E
	SAVEH (SAV) 350106.8N 0502216.9E
	EGVEL 344258N 0503005E
	PEKAM 332904N 0510118E
	SIVUD 330119N 0520009E
	PARUG 324704N 0522947E
	RANDU 323240N 0525917E
	YAZD (YZD) 315351.6N 0541657.7E
	BOMUN 313648N 0544555E
	UKVEV 310557N 0553718E
	ALMOB 303434N 0562824E
	KERMAN (KER) 301658.1N 0465632.3E
	PEKES 285929N 0595221E
	SODOK 281113N 0613652E
	KEBUD 273552N 0625024E
	(PANJGUR (PG) 265710.21N 0640813.06E)
L125	(NAKHCHIVAN (NAX) 390954.30N 0452909.40E)
	DULAV 385700N 0453800E
	RABDI 384804N 0454431E
	SIBVU 384444N 0454657E
	BUDED 375313N 0472032E
	MURPU 373043N 0480319E
	ASPOK 365918N 0484948E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	PAROT 361128N 0495841E
	GOLNU 355711N 0502052E
	VEBER 354209N 0504400E
	IMAM KHOMAINI (IKA) 352434.8N 0511042.5E
	ELEDI 350136N 0520356E
	RADAL 345423N 0522023E
	ROVAD 333131N 0535240E
	NODLA 325330N 0545850E
	SOGOT 324008N 0552339E
	NIVRA 315905N 0563810E
	DARBAND (DAR) 314659.4N 0565940.4E
	BOPAG 304413N 0584929E
	TOVUS 300643N 0595235E
	DAPAP 294630N 0602554E
	ZAHEDAN (ZDN) 292912.3N 0605405.7E
	DANIB 290706N 0611717E
	KEBUD 273552N 0625024E
L126	PUSTO 3321.00N 04245.00E
	SOGUM 3412.12N 0435454.9E
	SIGNI 340006.1N 0444200.2E
	MIGMI 334554.9N 0452724.4E
	ILAM (ILM) 333442N 0462455E
L200	OSAMA 315550N 0353706E
	AMMAN (AMN) 320014.65N 0360357.55E
	LOXER 320256N 362500E
	MESLO 320231N0363148E
	LUDAN 320256N 0363713E
	KUPRI 320825N 0364530E
	ASLON 321211N 0365111E
	NADEK 322728N 0371429E
	DAXEN 324444N 0374105E
	ORNAL 324755N0375153E
	KAREM 325110N 0380324E
	KUMLO 325811N 0382807E
	DAPUK 330139N 0384026E
	PASIP 330600N 0385600E
	GIBUX 330500N 0411100E
	SIGBI 330200N 0422000E
	SILBO 325900N 0432900E
L223	(AGRI (ARI) 393844.90N 0430137.50E)
	*Note 7 (ARI-DASIS)
	DASIS 385435N 0441230E
	*Note 7 (UMH-DASIS)
	UROMIYEH (UMH) 374114N 0450503E
	KAPES 372520N 0452004E
	REXAN 355850N 0463935E
	TAVNI 353807N 0465631E
	TUKLO 351014N 0471751E
	UKSIS 332159N 0484002E
	ALTAX 323014N 0492142E
	KIXOB 310917N 0502459E
	EGSIR 294615N 0512735E
	RUBAK 292617N 0514218E
	TOTNO 291052N 0515336E
	DASDO 285401N 0520551E
	LAGSA 283306N 0522056E
	LAMERD (LAM) 272222.2N 0531102.3E
	KISH ISLAND (KIS) 263130.6N 0535744.7E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	SIRRI (SIR) 255452N 0543211E
	TATLA 254753N 0544008E
	*Note 7 (TATLA-TARDI)
	VUTEB 253644.6N 0545149.4E
	LOVEM 252645.4N 0551440.4E
	IVOXI 251239.6N 0552513.1E
	LAGTA 250602N 0553315E
	ANVIX 244655.0N 0555616.0E
	PEDUL 244116N 0560205E
	KIPOK 243611N 0560719E
	TARDI 243418N 0560915E
	LAKLU 232235N 05704 01E
L300	LUXOR (LXR) 254458N 0324607E
	*Note 7 (YEN-LXR)
	MEMPO 252518N 0335457E
	OTEMO 250341N 0350810E
	GIBAL 243713 N0363443E
	YENBO (YEN) 240858N 0380219E
L301	(ANKOX 220256N 0662842E)
	RASKI 230330N 0635200E
	VAXIM 231900N 0611100E
	*Note 7 (VAXIM-RAGMA)
	RAGMA 232301N 0603846E
L305	DOHA HAMAD INTL (DOH) 251459.66N 0513634.80E
	*Note 7 (DOH- EMOTA)
	*Note 8 (DOH-ASTOG)
	ORMAL 252304N 0522201E
	ENANO 252348N 0522559E
	ALSEM 252703N 0524322E
	ASTOG 252822N 0525025E
	PURLI 253644N 0532436E
	GODKI 254122N 0534347E
	KIVUS 254522N 0540032E
	ITBUL 254910N 0541227E
	EMOTA 255254N 0542414E
L306	TOKRA 220925N 0553350E
	*Note 7 (TOKRA-LAKLU)
	DEMKI 224941N 0562308E
	LAKLU 232235N 0570401E
L308	DAROR 270244N 0495815E
	*Note 7 (NAGSA-DAROR)
	EGREX 270433N 0492158E
	SILBA 270554N 0485301E
	GESOR 270322N 0475751E
	SIBLI 265459N 0462334E
	ALMUL 262943N 0450553E
	NAGSA 261811N 0443117E
	GASSIM (GAS) 261753N 0434647E
	DEGSO 261054N 0531946E
	OBNET 260032N 0534514E
	ITITA 254410N 0541839E
	DESDI 253603N 0544230E
	RAGOL 252743N 0550739E
	SERSA 251945N 0553118E
	TUKLA 251936N 0554010E
	NADNI 251915N 0555658E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	LALDO 251806N 0563600E
	IMLOT 251708.1N 0570804.1E
	KATUS 2516005.9N 05747.00E
	DIVAB 2510.7N 05952.1E
	EGPIC 2508.6N 06029.5E
	(JIWANI) (JI) 250350N 0614744E
	LATEM 243144.7N 0644944.7E
L310	BOXAK 244536N 0540032E
	*Note 7 & 8 to LALDO
	SIGBO 245526.4N 0545653.9E
	NALTA 250242.7N 0553955.8E
	AVAMI 250554.9N 0555647.8E
	LALDO 251806N 0563600E
L311	KAROX 205717N 0381547E
	MAHDI 202600N 0373918E
	PASIL 161331N 0332010E
	VATEN 153358N 0323312E
	RADKA 145006N 0315040E
	IMSUT 142048N 0312230E
	ELOBEID (OBD) 130640.53N 0301335.25E
	RADAG 110340N 0270020E
	ALMAM 093345N 0244451E
	KAFIA 084400N 0233100E
L313	TARDI 243418N 0560915E
	KIPOK 243611N 0560719E
	IMPED 245824.5N 0560406.2E
	KULBA 251326N 0560153E
	EGPEP 255746.8N 0555822.5E
L314	NABAN 163124N 0430148E
	DAROV 160637N 0431338E
	GOBLO 154050N 0432550E
	LUDOX 152034N 0433524E
	RAMLO 151033N 0434007E
	UMILI 144609N 0435133E
	DEPDA 143206N 0435807E
	GOMRI 131816N 0443224E
L315	CAIRO (CVO) 300532N 0312318E
	*Note 7 (CVO- HGD)
	OBTAV 280120N 0330657E
	SOKOT 273104N 0333127E
	HURGHADA (HGD) 271040N 0334747E
	SOBEL 265011N 0341040E
	*Note 7 (GIBAL- SOBEL)
	MOGAP 260055N 0350455E
	GIBAL 243713N 0363443E
L317	MAHDI 202600N 0373918E
	AZAZA 173046N 0335009E
	ASNON 150818N 0305312E
	ITGAL 125209N 0281244E
	KAPIB 104917N 0255200E
	LOVAB 100147N 0245828E
	KAFIA 084400N 0233100E
L319	BAHRAIN (BHR) 261530N 0503919E
	*Note 7 (BAH- DASDO)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	DAVRI 264936N 0505732E
	OBTAR 265934N 0510309E
	DASDO 285401N 0520551E
	IMGOD 301419N 0513050E
	RADID 302444N 0512613E
	NOTSA 331745N 0490315E
	KEBEP 350454N 0474014E
	PAREX 360527N 0465154E
	ROVON 371601N 0455322E
	PARAS 373133N 0454134E
	TUDNU 375301N 0444447E
	BONAM 380300N 0441800E
L320	KAROX 205717N 0381547E
	RAKTA 190506N 0352358E
	SOGAD 171404N 0324125E
	DATIM 152833N 0301323E
	DELAM 144001N 0290644E
	HASAN 130129N 0265813E
	KISAL 101811N 0232526E
L321	OBRAN 302957N 0290522E
	*Note 7 (SML-OBRAN)
	REXUM 301822N 0291917E
	KUNKI 290726N 0291949E
	SOBAM 264529N 0301336E
	EGNAM 262856N 0301942E
	GIBAD 253635N 0303807E
	KUNAK 252745N 0304112E
	LUGAV 224205N 0313722E
	ABU SIMBEL (SML) 222118N 0313719E
L323	TONTU 223446N 0284313E
	SISID 220000N 0280838E
	ASKOL 154854N 0240005E
L324	(TEZAK 332750.40N 0314711.60E)
	LAKTO 323800N 0320500E
	GENIV 314831N 0330714E
L333	(DORUK 391645N 0421107E)
	DASIS 385435N 0441230E
	BORES 382829N 0452137E
	VUVAG 382529N 0452926E
	TABRIZ (TBZ) 380853.5N 0461246.6E
	RAKED 375621N 0470712E
	BUDED 375313N 0472032E
	RALGO 372840N 0490112E
	RASHT (RST) 371934.8N 0493657.1E
	KOBUB 370621N 0501031E
	EGMAN 370311N 0501827E
	RAMSAR (RSR) 365412.5N 0504049.6E
	ALKUP 364702N 0510409E
	NOSHAHR (NSR) 363946.1N 0512751.4E
	LABET 360950N 0530127E
	MIRUR 354221N 0541139E
	GIBAB 353213N 0543656E
	ALROT 351116N 0554136E
	LUBIX 345214N 0563219E
	TASLU 342531N 0574131E
	ALPEX 340919N 0582221E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ASVIS 334633N 0591828E
	SOKAM 331316N 0603754E (DANOD 322422N 0620032E)
L417	VUSEB 361637N 0434800E
	DAXOG 354612N 0434527E
	UMESA 351741N 0434307E
	MUTAG 343003N 0433834 E
	LAGLO 3351538.6 0441457.0E
	ELOSI 330800N 0441800E
	LOVEK 322208.1N 04440.01E
	ELIBA 320915N 0444645E
	NADOX 310505N 0451851E
L425	BOSUT 204705N 0393158E
	*Note 7 (BOSUT- BSH)
	AMBAL 202506N 0401625E
	GODSA 201258N 0404040E
	BISHA (BSH) 195840N 0423728E
	KATIX 200212N 0425406E
	WADI ALDAWASIR (WDR) 203019N 0451219E
	EGREN 202236N 0464422E
	DENKU 201123N 0484331E
	ASTIN 200410N 0495320E
	MEDMO 194837N 0521027E
	DAVOX 194400N 0524817E
	GOBRO 193622N 0534741E
	NOVNO 193313N 0535858E
	ITUVO 190315N 0554328E
	DEDSO 185811N 0560041E
	BOVOS 182230N 0575844E
	ASPUX 174404N 0600004E (MAMIG 164100N 0614641E)
L427	KAROX 205717N 0381547E
	BILAL 184044N 0330227E
	ASRAV 172442N 0301943E
	BOXIG 155958N 0272606E
	GIPSA 150616N 0253946E
	ELGENIENAD (GNA)132824.39N 0223207.30E
L430	VAXIM 231900N 0611100E
	ASLOM 242113N 0600552E
	MESPO 244817N 0595040E
	PEDEX 251211N 0592131E
	NOVSU 263407N 0573849E
	MELMI 264625N 0572300E
	VELAP 272556N 0565950E
	TAVNO 281112N 0563253E
	ASMET 284758N 0561019E
	SIRJAN (SRJ) 293322.5N 0553937E
L438	LONOS 283027N 0491713E
	LOPOL 281849N 0492845E
	ATBAG 280842N 0493844E
	GODRI 280256N 0494307E
	RAKSO 275326N 0495032E
	GOGRA 274918N 0495344E
	OBNAX 272650N 0501103E
	DEKTA 271605N 0501946E
	VELOG 270215N 0503055E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	KOBOK 265839N 0503349E
	MOGAS 264759N 0503909E
	TOSTA 262746N 0504912E
	ASTAD 261811N 0505646E
L440	KANIP 241040.7N 05520.7E
	*Note 7
	RETAS 235754N 0553423E
L443	RABAP 283625N 0492722
	TESSO 282852N 0492723E
	LOPOL 281849N 0492845E
	ENAVI 275552N 0493151E
	GIRSI 274126N 0493310E
	ORDAN 271706N 0495442E
	RAMSI 270249N 0500714E
	GASSI 270257N 0502229E
L444	KIPOL 230410N 0612903E
	*Note 7 (KIPOL-TOLDA)
	VUSIN 225940N 0605510E
	MIBSA 225400N 0601338E
	KAXEM 225103N 0595243E
	IMDEK 224647N 0592217E
	TOLDA 224008N 0583624E
L513	MURAK 345600N 0364200E
	BRAVO 344118N 0363500E
	LEBOR 341656N 03634514E
	LOTAX 335952N 0363231E
	DAMASCUS (DAM) 332154N 0362807E
	*Note 3 (OS)
	BUSRA 322000N 0363700E
	LOSAR 320930.06N 0362849.77E
	LOXER 320147.76N 0362251.46E
	QUEEN ALIA (QAA) 314423.41N 0360926.59E
	QATRANEH (QTR) 311454.41N 0360334.31E
	MUNRA 304944N 0360835E
L519	PATAT 261613N 0560059E
	*Note 7 (PATAT-ATUDO)
	EGPEP 255746.8N 0555822.5E
	ITLAP 254925N 0555010E
	PUVAL 253558.0N 0554258.0E
	DETGU 252623.9N 0553604.6E
	SERSA 251945N 0553118E
	IVOXI 251239.6N 0552513.1E
	VEKAL 250333.5N 0550340.5E
	KUTLI 245151.3N 0545618.0E
	GEVIV 244118N 0545000E
	ELEPO 243211N 0544410E
	ODKUN 242608N 0544017E
	VUXOD 242005N 0543625E
	ATUDO 241708.0N 0543432.0E
L550	WAFRA (KFR) 283715N 0475729E
	NIDAP 283857N 0473656E
	BOSID 284234N 0465228E
	SIBSA 284506N 0462006E
	LAKSO 284751N 0454129E
	VATIM 285136N 0444443E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	RASMO 285713N 0433119E
	ORSAL 290235N 0421107E
	TOLDI 290329N 0415621E
	NORGI 290515N 0412546E
	ULAKO 290758N 0403440E
	NIMAR 290635N 0395425E
	ENABI 290639N 0385550E
	ASTUM 290628N 0382237E
	OBNAK 290554N 0373032E
	EGSIS 290515N 0362850E
	KITOT 290205N 0345050E
	NUWEIBAA (NWB) 290156N 0344016E
	KARIK 292733N 0344641E
	TAKSU 293625N 0343623E
	DATOK 293624N 0341400E
	SERMA 312200N 0330834E
	GENIV 314831N 0330714E
	PASOS 321300N 0330600E
	(STEPA 324859N 0322349E)
L551	ANTAR 334800N 0281600E
	*Note 7 (NOZ-ANTAR)
	GOMVA 320010N 0292615E
	NOGLI 321249N 0291811E
	ALEXANDRIA (NOZ) 311115N 0295703E
L554	NUBAR 220000N 0313824E
	PASAB 184553N 0313836E
	SISOR 124543N 0313859E
	ITOX A 102401N 0313908E
	MALAKAL (MLK) 093347.40N0313911.41E
	KUNDI 083920N 0313819E
	EGBIM 072916N 0313716E
	JUBA (JUB) 045234N 0313559E
L555	TOTOX 215030N 0622230E
	TUMET 222307N 0595702E
	TOLDA 224008N 0583624E
L556	EGREN 202236N 0464422E
	NONGA 205048N 0492014E
	PURDA 210805N 0510329E
	*Note: 7 (PURDA-KUTVI)
	IVABO 204749N 0530058E
	SEMSI 204455N 0531724E
	OBSUS 203905N 0534952E
	IMDAM 202416N 0550801E
	OTISA 201000N 0554556E
	KEDON 200503N 0555901E
	HAIMA (HAI) 195813.3N 0561650.82E
	GIVNO 195011N 0563059E
	KUTVI 184306N 0582642E
L557	TUMAK 255031N 0531108E
	*Note 7 (TUMAK-RAGAS)
	VEDOM 260109N 0524456E
	ORLUP 260651N 0523216E
	VELAK 261307N 0521821E
	RAGAS 263537N 0521337E
L558	DASTU 074921N 0330800E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	IMDUR 074114N 0323107E
	EGBIM 072916N 0313716E
	DASAG 070454N 0294914E
	ASKON 061745N 0262537E
L559	DAPOK 235956N 0572959E
	*Note 7 (DAPOK-FJV)
	PASOV 243841N 0565037E
	MENSA 245750N 0563249E
	FUJAIRAH (FJV) 250603N 0562116E
L560	LAKTO 323800N 0320500E
	LOVEX 320951.69N 0322847.72E
	SERMA 312200N 0330834E
	VUTAR 293627.47N 0334901.26E
	SIMSA 291428.47N 0335715.76E
	SHARM EL SHEIKH (SHM) 275953N 0342448E
	SILKA 263400N 0352900E
L561	MAHDI 202600N 0373918E
	SUVRI 135436N 0321800E
	NABUS 110003N 0295910E
	ZENUB 094106N 0285841E
	ASKON 061745N 0262537E
L564	DOHA/HAMAD (DOH) 251459.66N 0513634.80E
	LADEM 245545N 0513714E
	EMEXA 245052N 0513604E
	DATRI 244239N 0513407E
	DENSI 242519N 0512959E
	*Note 8 (DOH)
	BATHA (BAT) 241257N 0512707E
	SOMAL 232844N 0512716E
	KUTNA 231341N 0512730E
	MIGMA 225035N 0512749E
	RAGPO 222759N 0510600E
	LOTOS 220000N 0503912E
	ALNUG 213009N 0500453E
	NONGA 205048N 0492014E
	DENKU 201123N 0484331E
	GERUG 185530N 0473402E
	ASKET 181905N 0470113E
	PATOG 180241N 0464631E
	VUVOD 173941N 0463200E
	TULIS 173033N 0462616E
	ULBON 171426N 0461512E
	RAGNI 163454N 0454815E
	LOPAD 161651N 0453738E
	ITOLI 152825N 0450927E
	OBNAM 144541N 0444448E
	GEVEL 141229N 0442547E
	NOPVO 135436N 0441536E
	TAIZ (TAZ) 134150N 0440819E
	PARIM 123142N 0432712E
L566	ASMAK 162327N 0524634E
	TAKMI 160542N 0522012E
	PURUG 151204N 0510142E
	KUSOL 144009N 0501534E
	NOTBO 142609N 0495530E
	EMABI 141627N 0494139E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	SOKEM 134235N 0485329E
	DATEG 123549N 0471627E
L570	ROTOX 283323N 0494809E
	AGHAJARI (AJR) 304441.1N 0494049.3E
	IMKEN 314407N 0493611E
	ALTAX 323014N 0492142E
	NOTSA 331745N 0490315E
L572	LESRI 370420N 0411348E
	KAMISHLY (KML) 370200N 0412006E
	HASSAKEH (HAS) 362900N 0404600E
	DIER ZZOR (DRZ) 351831N 0401102E
	TANF (TAN) 332900N 0383920E
L573	DAFINAH (DFN) 231658N 0414310E
	MADINAH (PMA) 243251N 0394219E
	WEJH (WEJ) 261045N 0362917E
L601	(ADANA (ADA) 365626.10N 0351237.40E)
	*Note 7 (ADA-KTN)
	TUNLA 355300N 0360200E
	SALIM 352908N 0361847E
	KARIATAIN (KTN) 341248N 0371551E
L602	TUMAK 255031N 0531108E
	*Note 7 (TUMAK-KTN)
	VEDOM 260109N 0524456E
	ORLUP 260651N 0523216E
	VELAK 261307N 0521821E
	LABOP 261907N 0520429E
	ALTOM 262230N 0515639E
	BOPOV 262430N 0515043E
	ALMOK 262832N 0513840E
	GITBO 263527N 0511750E
	VEDOS 264106N 05100445E
	MOGAS 264800N 0503909E
	TOLMO 265504N 0502927E
	EGLIT 270256N 0502006E
	TOKMA 270939N 0501159E
	ORSOL 272135N 0500208E
	ITNAS 274644N 0493957E
	DAMUR 280137N 04926378E
	ITEVO 281558N 0491332E
	DAVUS 282346N 0490622E
	BOXIK 284814N 0484734E
	FRALKA 292611N 0481819E
	TASMI 300120N 0475505E
	GADSI 303358N 0471116E
	ALPET 311219N 0461844E
	UROKO 314735N 0452917E
	MUTLO 321019N 0445703E
	LOVEK 322208N 0444001E
	DELMI 331918N 0431328E
	ASNOT 333000N 0425717E
	GEPAP 334906N 0422851E
	ELEXI 344130N 04140900E
	KUKSI 364508N 0374910E
	GAZIANTEP (GAZ) 3657051N 03728234E
L604	(PALEOCHORA (PLH) 351339.49N 0234051.04E)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	SALUN 340000N 0242700E
	SIDI BARANI (BRN) 313432N 0260020E
	DANAD 285106N 0280609E
	ALTAT 263602N 0294618E
	EGPAR 261448N 0300148E
	EL KHARGA (KHG) 252654N 03035274E
	KUNAK 252745N 0304112E
	EMENA 253749N 0315147E
	LUXOR (LXR) 254458 N 0324607E
	ASRAB 254726N 0330619E
	LORAS 255649N 0342714E
	MOGAP 260055N 0350455E
	IMRAD 260506N 0354444E
	WEJH (WEJ) 261046N 0362917E
	NADIK 261815N 0374637E
	RABDA 262048N 0381440E
	HALAIFA (HLF) 262603N 0391609E
	MUPVI 262943N 0403437E
	LAKRO 263051N 0410241E
	DAXAP 262142N 0430228E
	GASSIM (GAS) 2617543N 0434647E
	*Note 7 (GAS-NARMI)
	NAGSA 261811N 0443117E
	LABIS 261815N 0451755E
	PUSLA 261758N 0461706E
	LOROX 261751N 0463021E
	MAGALA (MGA) 261720N 0471225E
	MUSRI 261647N 0474137E
	KASOM 262111N 0480312E
	UMENA 262832N 0483952E
	TABTA 262837N 0484325E
	KING FAHD (KFA) 262951N 0494643E
	NARMI 261802N 0501939E
	BAHRAIN (BAH) 261551N 0503855E
	DENVO 260452N 0510509E
	PATOM 255821N 0511836E
	EMISA 254658N 0514207E
	KAPAX 254218N 0515118E
	ORSIS 252801N 0521636E
	ENANO 252348N 0522559E
	TOSNA 251612N 0524116E
L607	(SITIA (SIT) 350406.32N 0261120.63E)
	*Note 7 (SIT-NABSI)
	PAXIS 335706N 0272000E
	NABSI 314353N 0290419E
L612	(SITIA (SIT) 350406.32N 0261120.63E)
	*Note 7 (SIT-BLT)
	KUMBI 334250N 0284500E
	MIVOR 322922N 0300603E
	BAL TIM (BLT) 313144N 0310721E
L613	ABU SIMBEL (SML) 222118N 0313719E
	EL KHARGA (KHG) 252654N 0303527E
	DEPNO 262438N 0301413E
	BOPOS 264318N 0300722E
	IMREK 290643N 291220E
	KIVIL 293845N 0284415E
	MERSA MATRUH (MMA) 311911N 0271320E
	*Note 7 (MMA- AMAXI)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ITEXO 325832N 0265834E
	TANSA 340000N 0264900E (AMAXI 350552N 0254658E)
L617	CAIRO (CVO) 300532N 0312318E *Note 7 (CVO- SIT) MENKU 310531N 0301806E ALEXANDRIA (NOZ) 311115N 0295703E SOBAX 313508N 0291835E NABSI 314353N 0290419E TANSA 340000N 0264900E (SITIA (SIT) 350406.32N 0261120.63E)
L620	(ALSUS 350206N 0343924E) BALMA 342856.30N 0350302.30E KALDE (KAD) 334826.70N 0352909.53E
L631	TOTOX 215030N0622230E *Note 7 (TOTOX-MCT) IVOMA 223408N 0605430E DEBDA 224327N 0603525E MIBSA 225400N 0601338E AMBOS 230324N 0595405E ELIGO 232458N 0590848E KARAR 233042N 0585438E MUSCAT (MCT) 233528.04N 0581536.48E
L677	CAIRO (CVO) 300532N 0312318E MENLI 294700N 0315206E KAPIT 291700N 0323606E SHARM EL SHIEKH (SHM) 275953N 0342448E *Note 7 (PASAM-SHM) PASAM 273045N 0345542E DARAX 264713N 0354703E WEJH (WEJ) 261046N 0362917E *Note 7 (PASAM-JDW) RAGNO 251617N 0371123E YENBO (YEN) 240858N 0380219E RIDEP 233847N 0381558E MIGDA 223829N 0384253E JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E *Note 7 (JDW-ABKAR) RIBAM 204231N 0390551E PATUS 192945N 0393720E ABKAR 190511N 0401612E IMRAM 175604N 0413004E LUBAL 171544N 0421228E JAZAN (GIZ) 165428N 0423439E *Note 7 (GIZ-IMSIL) NABAN 163123N 0430150E IMSIL 155738N 0434112E SANAA (SAA) 152959.60N 0441310.60E
L681	GESOR 270322N 0475751E *Note 5 & 7 & 8 (GESOR-ULIKA) LABLI 264522N 0482100E RABSA 263050N 0483951E TABTA 262837N 0484325E EMOGA 261647N 0490230E BOSIV 261258N 0490837E DEMKA 261008N 0491310E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	GISRA 253344N 0501047E
	ULIKA 251545N 0503849E
L692	ALRIK 220631N 0482535E
	*Note 7 (ALRIK-GISKA)
	LOTOS 220000N 0503912E
	DEBEP 215700N 0514434E
	VATIX 215522N 0521638E
	ALROK 215400N 0524217E
	DEBIN 214716N 0543309E
	KOBES 214504N 0550526E
	DAPOL 214301N 0553416E
	EMAVA 214208N 0554936E
	ITSAG 213720N 0570640E
	GISKA 213503N 0574014E
L695	PAROK 231030N 0590245E
	*Note 7 (PAROK-ITURA)
	ITURA 232351N 0580720E
L700	GHESHM ISLAND (KHM) 264547.1N 0555427.6E
	ULDUN 262429N 0560924E
	BOTOV 252812N 0564307.80E
	GIDIL 251742N 0564923E
	BUBAS 245938N 0570003E
	GERAR 240600N 0573616E
	MIXAM 234139N 0575523E
L703	LONOS 283027N 0491713E
	LOPOL 281850N 0492845E
	GEPUT 281307N 0493423E
	GODRI 280257N 0494308E
	GOGRA 274918N 0495344E
	OBNAX 272651N 0501103E
	DEKTA 271605N 0501946E
	VELOG 270215N 0503056E
	KOBOK 265839N 0503349E
	RIKET 261952N 0510954E
	RASDI 260425N 0512407E
L704	LONOS 283027N 0491713E
	*Note 7 (LONOS-TOSNA)
	LOPOL 281850N 0492845E
	GEPUT 281307N 0493423E
	GODRI 280257N 0494308E
	GOGRA 274918N 0495344E
	OBNAX 272651N 0501103E
	DEKTA 271605N 0501946E
	VELOG 270215N 0503056E
	KOBOK 265839N 0503349E
	DEBEN 265254N 0504856E
	DAVRI 264936N 0505732E
	SODAK 264634N 0510530E
	DANOB 263946N 0512640E
	BOTOB 263350N 0514505E
	VEDED 260558N 0514628E
	ORSIS 252801N 0521636E
	ENANO 252348N 0522559E
	TOSNA 251612N 0524116E
L710	UKRAG 233056N 0552306E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	*Note 7 (UKRAG to DEDSO)
	MEMTU 232517N 0552443E
	GOGMI 230215N 0553159E
	ITKUN 223731N 0553934E
	DEBAV 221532N 0554617E
	EMAVA 214208N 0554936E
	ITETA 211618N 0555208E
	IVENI 205158N 0555430E
	KASIN 201853N 0555742E
	KEDON 200503N 0555901E
	KUKDI 193022N 0555953E
	DEDSO 185811N 0560041E
L713	DASHT E NAZ (DNZ) 363853.6N 0531120.1E
	IMDUX 361511N 0534211E
	GIBAB 353213N 0543656E
	PAXER 350901N 0550000E
	ULETA 342805N 0554002E
	EMITI 335811N 0560845E
	RIBEN 332902N 0563620E
	OTISO 331451N 331451N
	EGPOD 324901N 0571545E
	NADSA 321438N 0575002E
	TOVUS 300643N 0595235E
	ULOVI 291948N 291948N
	SODOK 281113N 0613652E
	KEBUD 273552N 0625024E
L717	RANRU 300115N 0610048
	LUDAX 295658N 0604101E
	PEKES 285929N 0595221E
	(OGOGO 302457N 0630904.20E)
L720	RIKOP 374026N 0581450E
	BOJNORD (BRD) 372942.2N 0571923.8E
	ODKOL 363136N 0560702E
	IBRAV 362041N 0555430E
	ULANO 355228N 0552043E
	ITELO 353534N 0550052E
L721	LAVAN ISLAND (LVA) 264843.4N 0532121.1E
	EGMIT 263340N 0530825E
	IMLUV 262936N 0530101E
	ELIDU 262424N 0525133E
	*Note 7 (ELIDU-BAYAN)
	UKNEP 262127N 0524818E
	UKUBU 261428N 0524039E
	ORLUP 260651N 0523216E
	ITMUB 255919N 0522402E
	ALKAN 255214N 0521615E
	SENKI 254637N 0520928E
	LABOV 253412N 0515521E
	BAYAN 252926N 0514849E
L764	MUSCAT (MCT) 233528N 0581536E
	ALMOG 233524N 0574940E
	IVETO 233520N 0570704E
	PAXIM 240245N 0561631E
L768	ALPOB 254218N 0530055E
	*Note 7 (ALPOB to FIRAS)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	*Note 8 (ALPOB-COPPI)
	ROTAG 255353N 0523621E
	ITMUB 255919N 0522402E
	MODOG 261012N 0515935E
	RAMKI 261138N 0515625E
	RABLA 261506N 0514834E
	SOLOB 262241N 0513132E
	ALREP 262541N 0512209E
	ORDIG 262738N 0511603E
	MEDMA 263421N 0505454E
	OBMON 263832N 0504125E
	EGMOR 264211N 0502907E
	ULADA 264527N 0501624E
	ITESA 265016N 0500014E
	JUBAIL (JBL) 270043N 0492443E
	LAKSI 271306N 0490004E
	ITUDA 273432N 0481647E
	IVOBA 274138N 0480219E
	COPPI 275033N 0474359E
	DUSBO 280616N 0465254E
	AL QAISUMAH/HAFR AL BATIN (HFR) 282126N 0460703E
	VATIM 285136N 0444443E
	RAFHA (RAF) 293713N 0432953E
	ARAR (AAR) 305429N 0410832E
	OVANO 314801N 0390951E
	OTILA 320131N 0390153E
	MODAD 323542N 0384136E
	KUMLO 325811.82N 0384138.14E
	SOKAN 330806N 0382206E
	RAFIF 331247N 0381919E
	SULAF 332718N 03810247E
	FIRAS 335218N 0375512E
L852	UROMIYEH (UMH) 374114.0N 0450503.7E
	TESVA 381709N 0442947E
	(ESENK 384441.40N 425616.80E)
L883	REXOD 211230N 0613830E
	GADMA 211439N 0600938E
	TAVKO 211519N 0593147E
	UMILA 211555N 0584738E
	*Note 7 (UMILA to ALNUG)
	MEVLI 211632N 0565606E
	KUROV 211627N 0561853E
	ALNUN 211625N 0561041E
	ITETA N211618 E0555208
	SITOL 211604N 0552514E
	LONOV 211856N 0543516E
	DASAP 212047N 0540045E
	EGSAB 212446N 0523634E
	ASNUR 212654N 0514335E
	EGSIT 212746N 0511956E
	ALNUG 213009N 0500453E
	*Note 7 (ALRIK to ALNUG)
	ALRIK 220631N 0482535E
	KITUB 224922N 0462342E
	UMRAN 231508N 0452023E
	*Note 7 (PMA to URMAN)
	DASTO 232236N 0445953E
	NADLI 233725N 0441843E
	TUKVU 234626N 0435319E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	KODIS 240254N 0425312E
	BIR DARB (BDB) 241951N 0414928E
	GOKSA 242442N 0410403E
	MEDRO 242730N 0403649E
	MADINAH (PMA) 243251N 0394219E
L934	PATOM 255821N 0511836E
	LUBET 261441N 0510347E
	EGPUD 262904N 0505019E
	OBMON 263832N 0504125E
	OVUPI 265320N 0502727E
	TOKMA 270939N 0501159E
	ORSOL 272135N 0500208E
	ITNAS 274644N 0493957E
	DAMUR 280137N 0492638E
	ITEVO 281558N 0491332E
	DAVUS 282346N 0490622E
M203	PUSTO 332100N 0424500E
	*Note 7 (PUSTO to ILMAP)
	SILBO 325900N 0432900E
	LOVEK 322208N 0444001E
	KODAV 314500N 0460400E
	ILMAP 312133N 0465702E
M300	(KADOL 190003N 0633602E)
	LOTAV 203700N 0605700E
	GADMA 211439N 0600938E
	GOLBA 213318N 0594600E
	EMURU 221357N 0585338E
M301	(PURAD 145500N 0415354E)
	KIPAM 150030N 0421526E
	MIPIN 150608N 0423735E
	LUDOX 152034N 0433524E
	MUTEX 152524N 0435445E
	SANAA (SAA) 15295960N 0441310.60E
	ITOLI 152825N 0450927E
	PASAD 153634N 0460713E
	PAPOR 154322N 0465652E
	GIBIT 154849N 0473804E
	NABUP 155417N 0482143E
	SAYUN (SYN) 155742.64N 0484710.18
	XAGAG 160206N 0492722E
	GINBO 160349N 0494017E
	RARBA 161021N 0503920E
	SIMKO 161821N 0515526E
	ASMAK 162327N 0524634E
M303	MUSCAT (MCT) 233528.04N 0581536.48E
	*Note 7 (MCT-KIPOL)
	SEVLA 233321N 0591122E
	KIPOL 230410N 0612903E
M305	SIDI BARANI (BRN) 313432.5N 0260020.3E
	ATMUL 200000N 0290527.4E
	*Note 3
M309	KING KHALED (KIA) 245310N 0464534E
	*Note 1 (KIA-VEMEM)
	DURMA 242710N 0454610E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	RAGHBA (RGB) 235533N 0443547E
	LAKMI 232424N 0430827E
	DIPEX 231656N 0424758E
	KUTOL 230718N 0422147E
	ITOLO 224602N 0412244E
	ALPUT 224019N 0410705E
	VUTEX 223418N 0405044E
	VEMEM 221554N 0400118E
M316	KATUS 251600N 0574700E
	SEVDA 260217N 0590549E
	NAGES 262451N 0594514E
	SOLUV 264157N 0601533E
	GOKSO 265542N 0604012E
M317	GABKO 260404N 0554755E
	RADEB 261140N 0554719E
	NANPA 262301N 0553136E
	ORPEN 263119N 0552008E
	SERDU 264715N 0545757E
	ROTAL 273241N 0535320E
	KUPTO 282418N 0525432E
	IMGOD 301419N 0513050E
	RADID 302444N 0512613E
	NOTSA 331745N 0490315E
	KEBEP 350454N 0474014E
	PAREX 360527N 0465154E
	*Note 9 (RABEM-DASIS)
	RABEM 374841N 0452949E
	KHOY (KHY) 382601.4N 0445758.9E
	DASIS 385435N 0441230E
M318	RIKOP 374026N 0581450E
	*Note 7 (ATUDO-RIKOP)
	SILPO 370806N 0580006E
	BONEM 363826N 0574647E
	SABZEVAR (SBZ) 361011.0N 0573414.9E
	RABAM 355442N 0572955E
	SITEL 351304N 0571825E
	DAPIN 342034N 0570413E
	TABAS (TBS) 334021.2N 0565330.9E
	OTISO 331451N 0564936E
	IMSOG 325636N 0564649E
	NIVRA 315905N 0563810E
	PARID 313041N 0563358E
	MIRER 305943N 0562926E
	GETIS 301145N 0562226E
	ASMET 284758N 0561019E
	ASMUK 280952N 0560453E
	GHESHM ISLAND (KHM) 264547.1N 0555427.6E
	RADEB 261140N 0554719E
	GABKO 260404N 0554755E
	DAVMO 255127.0N 0553900.0E
	TOVIV 253302N 0551942E
	LOVEM 252645.4N 0551440.4E
	MITIX 251746.4N 0550729.7E
	EGTAG 250856N 0545652E
	VEKOV 245750N 0544925E
	TULON 245511.4N 0544739.1E
	KUVDA 244309N 0543909E
	IMLIP 243648N 0543549E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	RURAL 243045N 0543156E
	ATUDO 241708.0N 0543432.0E
	MUSEN 241429N 0543236E
	BOFIT 235947N 0540404E
	DANOK 234220N 0533111E
	ESROM 232424N 0525729E
	GOLGU 231051N 0523109E
	MUXIT 230229N 0523024E
	KATIT 224928N 0522923E
	MEDPO 222421N 0520751E
	DEGPA 221801N 0520227E
	DEBEP 215700N 0514434E
	EGSIT 212746N 0511956E
	PURDA 210805N 0510329E
	ASTIN 200410N 0495320E
	KUTMA 182927N 0481202E
	NITPO 174554N 0472624E
	SHARURAH (SHA) 172813N 0470802E
	NADKI 171417N 0464703E
	RAGNI 163454N 0454815E
	IMDEN 162101N 0452744E
	MUTAB 155314N 0444700E
	RAKID 154134N 0442959E
	SANAA (SAA) 152959.60N 0441310.60
	NAGIL 152024N 0435651E
	RAMLO 151033N 0434007E
	HODEIDEH (HDH) 144622.10N 0425911.10E
M319	ULINA 292451N 0345818E
	SESMO 293458N 0351159E
	LOXUS 301301N 0352601E
	LOSIL 304951N 0354841E
	QATRANEH (QTR) 311454N 0360334E
	MOUAB 314758.00N 0353559.00E
M320	KING FAHD (KFA) 262153N 0494910E
	KODAG 2703.3N 04920.4E
	JUBAIL (JBL) 270222N 0492426E
	RAS MISHAB (RAS) 280441N 0483653E
	KUWAIT (KUA) 291457N 0475717E
	ASVIR 283220N 0482220E
M321	HALAIFA (HLF) 262603N 0391609E
	*Note 7 (KIA-HLF)
	IMROV 260936N 0402145E
	ORMAD 260353N 0404401E
	ROSUL 253945N 0421519E
	KINOB 253146N 0430018E
	MIRAS 251508N 0443001E
	OVEKU 250955 0445701E
	IVONU 250323N 0454030E
	KING KHALED (KIA) 245310N 0464534E
	RESAL 240649N 0470427E
	AMBAG 230529N 0474611E
	BOSOB 224130N 0480218E
	ALRIK 220631N 0482535E
	DAXOK 213157N 0485041E
	NONGA 205048N 0492014E
	ASTIN 200410N 0495320E
	SILPA 184953N 0510158E
	IMPOS 183137N 0511848

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	LOTEL 180926N 0514103
	PUTRA 165432N 0525631E
M323	IMDUR 074114N 0323107E
	BOTOK 102859N 0334548E
	EGTOT 144511N 0353913E
	MIPOL 203322N 0382145E
M324	RIKOP 374026N 0581450E
	LOXED 355854N 0580609E
	TABNI 353052N 0575840E
	TASLU 342531N 342531N
	ROXEK 331123N 0572138E
	EGPOD 324901N 324901N
	DARBAND (DAR) 314659.4N 0565940.4E
	PURBO 311346N 0565832E
	KERMAN (KER) 301658.1N 0565632.3E
	NANTO 284140N 0563831E
	BANDAR ABBAS (BND) 271149.4N 0562200.3E
	MOBET 264406N 0560908E
	PATAT 261613N 0560059E
M425	ELIKA 334955N 0343500E
	CHEKA (CAK) 341801.81N 0354159.64E
M428	IVURO 251940N 0560915E
	*Note 7/8 (IVURO/MUNGA)
	SUTVO 251531N 0562153E
	GOMTA 251115N 0563447E
	TARBO 244351N 0574637E
	MUNGA 242516N 0584533E
M430	KING KHALID (KIA) 245310N 0464534E
	*Note 5 (KIA-DOH)
	*Note 7 (ULIKA-KIA)
	DEGLA 250243N 0472847E
	KOBOX 250716N 0475046E
	GOLNO 251155N 0483658E
	KIREN 251447N 0490724E
	*Note 8 (KIREN-TOSNA)
	AL AHSA (HSA) 251645N 0492903E
	SALWA 251538N 0503048E
	ULIKA 251545N 0503849E
	GINTO 251606N 0510416E
	LAGNO 251613N 0511518E
	DOHA/HAMAD (DOH) 251459.66N 0513634.80E
	*Note 7 (OXARI-DOH)
	BOVIP 251555N 0523135E
	TOSNA 251612N 0524116E
	PUTIB 251900N 0525755E
	RORON 252053N 0530916E
	TAGDU 252258N 0532153E
	OXARI 252535N 0533458E
M434	UMESA 351741N 0434307E
	OTALO 351700N 0441900E
	TOTAM 351601N 0444006E
	DAVAS 351724N 0451235E
	BOXIX 351724N 0460921E
	ASLAX 351607N 0463118E
	NOLTO 351435N 0465623E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	SANANDAJ (SNJ) 351419.7N 0470029.2E
	TUKLO 351014N 0471751E
	LOVID 350740N 0472841E
	KEBEP 350454N 0474014E
	HAMADAN (HAM) 345200.8N 0483301.0E
	ORLOG 345512N 0490915E
	SAVEH (SAV) 350106.8N 0502216.9E
M440	KING KHALED (KIA) 245310N 0464534E
	OTALI 243313N 0474744E
	SITER 241107N 0485443E
	KUTNA 231341N 0512730E
	BOPEK 230059N 0520007E
	KATIT 224928N 0522923E
	*Note 7 (KATIT-TULBU)
	DAVLU 224136N 0533310E
	DANUX 223605N 0541558E
	MIDGU 222706N 0552230E
	DEMKI 224941N 0562308E
	TULBU 230005N 0571827E
M444	DOHA/HAMAD (DOH) 251459.66N 0513634.80E
	EMISA 254658N 0514207E
	PATOM 255821N 0511836E
	DENVO 260452N 0510509E
	TULUB 260644N 0510041E
	BAHRAIN (BHR) 261530N 0503919E
	ELOSO 262409N 05035501E
	DESBU 263240N 0503241E
	EGMOR 264211N 0502907E
	LOTOR 264854N 0502200E
	*Note 7 (LOTOR- DAVUS)
	RAMSI 270249N 0500714E
	ORDAN 271706N 0495442E
	GIRSI 274126N 0493311E
	ENASO 275707N 0491911E
	EMORI 281434N 0491051E
	DAVUS 282346N 0490622E
M449	BUSRA 322000N 0363700E
	GIBOX 320700N 0363308E
	MESLO 320231N 0363148E
	GETUP 315833.47N 0363037.47E
	ALNOR 313955.26N 0362507.52E
	EGLOT 311656.94N 0361823.86E
	MUNRA 304944.29N 0360834.88E
	KINOD 301200.30N 0361600.60E
	PETRA 294206N 0362210E
	GIBET 292620N0362501E
	EGSIS 290515N 0362850E
	RABUG 283622N 0363402E
	TABUK (TBK) 282153N 0363637E
	NETOL 270748N 0363226E
	WEJH (WEJ) 261046N 0362917E
M550	GOLGU 231051N 0523109E
	RIBOT 230844N 0522428E
	BOPEK 230059N 0520007E
	MIGMA 225035N 0512749E
	*Note 7 (MIGMA- MEVDO)
	MEVDO 223205N 0494616E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
M551	(DONSA 143518N 0651136E) ANGAL 161404N 0600004E OTOTO 164004N 0570435E KIVEL 165306N 0553633E DAXAM 171612N 0544715E
M554	TOKAR 180624N 0374812E MIPOL 203322N 0382145E
M555	ALRAM 374230N 0443736E KAPES 372520N 0452004E
M556	ORMID 253354N 0525434E DASLO 254537N 0523029E ALKAN 255214N 0521615E RABLA 261506N 0514834E SOLOB 262241N 0513132E ALREP 262541N 0512209E ORDIG 262738N 0511603E MEDMA 263421N 0505454E BAHRAIN (BHR) 261530N 0503919E NARMI 261802N 0501939E
M557	IVOXI 251239.6N 0552513.1E MITIX 251746.4N 0550729.7E RIDAP 252553.7N 0543701.2E OTIKI 253229N 0541441E TOTKU 253534N 0540410E GODKI 254122N 0534347E RALMI 254505N 0533033E TUMAK 255031N 0531108E
M559	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E *Note 7 (JDW- LABNI) RIBAM 204231N 0390551E PATUS 192945N 0393720E IMLIL 171949N 0403219E LABNI 165620N 0410921E NISMI 162415N 0421838E DAROV 160637N 0431338E IMSIL 155738N 0434112E ASREM 154637N 0441443E RAKID 154134N 0442959E ITOLI 152825N 0450927E LONIS 151910N 0460016E MEMTA 150322N 0472434E OBNIS 145840N 0474903E BOSAX 144740N 0484553E MUKALLA (RIN) 144015.30N 0492329.30E EMABI 141627N 0494139E XANLO 135653N 0495628E PURKA 131208N 0503042E ODBEN 123747N 0505648E VEDET 120134N 0512420E
M561	RAGAS 263537N 0521337E *Note 7 (RAGAS-KIS) EGMIT 263340N 0530825E KISH ISLAND (KIS) 263130.6N 0535744.7E MIVUN 263151N 0541953E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	DENSA 263158N 0542920E
	BANDAR LENGEH (LEN) 263210.1N 0545104.2E
	BOSOS 264325N 0554311E
	GHESHM ISLAND (KHM) 264547.1N 0555427.6E
	*Note 7 (KHM- ASVIB)
	PAVON 270206N 0561149E
	RUKOT 265324N 0580339E
	LADPA 265331N 0592514E
	GOKSO 265542N 0604012E
	ASVIB 265724N 0631812E
	(PANJGUR (PG) 265710.21N 0640813.06E)
M562	VATEN 153358N 0323312E
	PASIL 161331N 0332010E
	BOPID 163948N 0335142E
	IMTAR 170609N 0342331E
	PORT SUDAN (PSD) 19240412N 037143021E
	BOGUM 200636N 0380300E
	MIPOL 203322N 0382145E
M564	PASOV 243841N 0565037E
	*Note 7 (PASOV-UMAMI)
	PUXIL 244117N 0563145E
	VAXAS 244308N 0561807E
	NALNU 244737N 0560925E
	UMAMI 245113.7N 0560223.3E
M565	ALRAP 133945N 0361344E
	*Note 7 (ALRAP-LUGAV)
	EGTOT 144511N 0353913E
	GIDAR 152731N 0351642E
	ELONO 163635N 0343934E
	IMTAR 170609N 0342331E
	DARIB 193159N 0330252E
	ENABU 220000N 0322927E
	LUGAV 224205N 0313722E
M568	NUBAR 220000N 0313824E
	UMIDA 185115N 0311704E
	ASNON 150818N 0305312E
	KASAB 134346N 0304233E
	KINOV 093414N 0301149E
	DEKUM 043742N 0293936E
M572	NOLSU 251248.0N 0560737.8E
	*Note 7 (NOLSU-GOMTA)
	GOMTA 251115N 0563447E
M573	TEHERAN (TRN) 354149.10N 05117021.60E
	DAMOS 372619N 0474521E
	TABRIZ (TBZ) 380853.50N 04612473.95.70E
M574	NABIL 122200N 0600006E
	BOTEM 135413N 0551418E
	RIGAM 143932N 0530414E
	UKSAB 145200N 0521800E
	NODLI 150301N 0513549E
	PURUG 151204N 0510142E
	EGMIX 151811N 0503810E
	UKORA 152407N 0501547E
	TAVLI 153502N 0493430E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	RALMO 153824N 0492155E
	NABUP 155417N 0482143E
	MUTOK 161005N 0472228E
	LABRA 161813N 0465113E
	OVABI 162442N 0462642E
	RAGNI 163454N 0454815E
	ELONA 165753N 0442124E
	NOBSU 171554N 0431315E
M600	RANBI 251908N 0544500E
	KISAG 251834N 0541408E
	TUMAK 255031N 0531108E
	*Note 7 (TUMAK- KUMBO)
	VEDOM 260109N 0524456E
	ORLUP 260651N 0523216E
	VELAK 261307N 0521821E
	LABOP 261907N 0520429E
	ALTOM 262230N 0515639E
	BOPOV 262430N 0515043E
	ALMOK 262832N 0513840E
	GITBO 263527N 0511750E
	VEDOS 264106N 05100445E
	MOGAS 264800N 0503909E
	RAKAK 265221N 0502618E
	RAMSI 270249N 0500714E
	ORNAK 272854N 0493248E
	SOLEM 275229N 0491136E
	KUMBO 281705N 0485526E
M628	DAFINAH (DFN) 231658N 0414310E
	*Note 7 (UMRAN - DFN)
	DIPEX 231656N 0424758E
	NALBA 231639N 0433419E
	DAXUR 231537N 0445436E
	UMRAN 231508N 0452023E
	*Note 7 (UMRAN - MIGMA)
	DEBAS 231059N 0462728E
	AMBAG 230529N 0474611E
	DEGNO 225945N 0485954E
	MIGMA 225035N 0512749E
	BOSAK 225021N 0514213E
	KATIT 224928N 0522923E
	PEKEM 224648N 0535942E
	RIGIL 230146N 0551430E
	LUDID 230227N 0551800E
	GOGMI 230215N 0553159E
	*Note 7 (TULBU-LUDID)
	LABSA 230153N 0555505
	EGVAN 230127N 0561907
	KUNGO 230034N 0565850E
	TULBU 230005N 0571827
	IZKI (IZK) 2253198.60N 0574542.73
	TOLDA 224008N 0583624E
	*Note 7 (PARAR-TODLA)
	LOXOP 223722N 0594548E
	LOSIM 223513N 0603238E
	IVOMA 223408N 0605430E
	PARAR 222630N 0630700E
M634	ANGAL 161404N 0600004E
	TOKPU 145122N 0571103E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	BOTEM 135413N 0551418E
	KEDAV 125553N 0531509E
	VEDET 120134N 0512420E
	(IMTIS 112506N 0502858E)
M651	NADKI 171418N 0464706E
	OVABI 162442N 0462642E
	MEGPA 160017N 0461653E
	PASAD 153634N 0460713E
	LONIS 151910N 0460016E
	PEBIX 144447N 0454637E
	LADLI 132724N 0451604E
	ADEN (KRA) 124952.20N 0450125E
	KORAB 121109N 0445028E
	OKTOB 114730N 0444348E
	(IMVEB 112638N 0443753E)
M677	SESRU 290900N 0485450E
	*Note 7 (SESRA- TUKSI)
	RETEL 285236N 0491048E
	RABAP 283625N 0492722E
	PASAK 282500N 0494847E
	IVIVI 273734N 0502437E
	DEBGU 272648N 0503252E
	VEDOR 270855N 0504630E
	TOSDA 2700045N 0505629E
	TORBO 265223N 0511024E
	SEVNI 264401N 0513815E
	SOGAN 263915N 0515408E
	MURUB 262455N 0523751E
	UKNEP 262127N 0524818E
	DEGSO 261054N 0531946E
	OBNET 260032N 0534514E
	LUDAM 255508N 0535859E
	ITBUL 254910N 0541227E
	DIXAM 254151N 0543557E
	VUTEB 253644.6N 0545149.4E
	LOVEM 252645.4N 0551440.4E
	KURTU 252211N 0554625E
	MISEG 252134N 0555205E
	TUKSI 252006N 0560525E
	IVURO 251940N 0560915E
	KUSEN 251828.0N 0562340.0E
	LALDO 251806N 0563600E
M681	TARBO 244351N 0574637E
	*Note 7/8 (TARBO-DAMUM)
	DAMUM 243236N 0591307E
M686	LUXOR (LXR) 254458N 0324607E
	*Note 7 (JDW- LXR)
	MEMPO 252518N 0335457E
	OTEMO 250341N 0350810E
	GIBAL 243713N 0363443E
	ALPOV 232037N 0374252E
	BOMOX 222949N 0382704E
	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
M688	(OTKEP 375133N 0423936E)
	*Note 7 (OTKEP- SIDAD)
	RATVO 371426N 0435604E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	KEDIM 364617N 0440909E
	SOBIL 343000N 0451008E
	VAXEN 331800N 0451500E
	SISIN 325006N 0454113E
	ULDUR 305023N 0472958E
	SIDAD 295231N 0482944E
M690	ZELAF 325656N 0375959E
	ORNAL 324755N0375153E
	KODER 323300N 0373800E
	DESLI 314900N_0365901E
	ELOXI 313401N 0364534E
	KULDI 311847N 0363214E
	MUNRA 304944N 0360835E
	LONOL 300801N 0353500E
	SESMO 293458N 0351159E
	ULINA 292451N 0345818E
	NUWEIBAA (NWB) 290156N 0344016E
M691	LADNA 262749N 0502245E
	*Note 7 (ALPOT- LADNA)
	KING FAHD (KFA) 262951N 0494643E
	DASVA 264551N 0492301E
	SILBA 270554N 0485301E
	ALPOT 271841N 0480511E
	KEDAT 272149N 0475901E
	EMENI 273234N 0473848E
	ITIXI 275031N 0470435E
M701	LUMOM 371612N 0444924E
	PAVOD 370204N 0451834E
	ENEDA 355211N 0462718E
	NOLTO 351435N 0465623E
	KHORAM ABAD (KRD) 332603.1N 0481730.7E
	DAPEM 325126N 0484159E
	NAGRO 321015N 0491549E
	IMKEN 314407N 0493611E
	MESVI 311057N 0500006E
	BOTAS 295241N 0505515E
	IVERA 292303N 0511540E
	DEPSU 283409N 0515047E
	DURSI 271219N 0520144E
	KAVAM 265737N 0515818E
	MIDSI 264142N 0515442E
M708	DAROR 270244N 0495815E
	*Note 7 (DAROR-DASUT)
	RAMSI 270249N 0500714E
	GASSI 270257N 0502229E
	VELOG 270215N 0503056E
	TOSDA 270005N 0505629E
	TORBO 265223N 0511024E
	SEVNI 264401N 0513815E
	SOGAN 263915N 0515408E
	MURUB 262455N 0523751E
	DASUT 261832N 0531108E
M710	DASIS 385435N 0441230E
	REXUS 385624N 0451332E
	DULAV 385700N 0453800E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
M715	ASVIB 265724N 0631812E
	SARAVAN (SRN) 272454.1N 0621931.5E
	PEKES 285929N 0595221E
	SILKO 295558N 0584138E
	EGRES 304855N 0573144E
	PURBO 311346N 0565832E
	PARID 313041N 0563358E
	DANEM 322854N 0550717E
	MITET 325226N 0542850E
	PURKI 331140N 0535657E
	KAVEK 332249N 0533814E
	RERET 333336N 0532651E
	OXADU 350837N 0511226E
	IMLIM 351200N 0510400E
	ELIPO 354046N 0502117E
	ZANJAN (ZAJ) 364646.8N 0482111.9E
M717	LADLI 132724N 0451604E
	DASIT 144412N 0462931E
	GIBIT 154849 N 0473804E
	KANEM 173660N 0492655E
	SILPA 184953 N 0510158E
	SILPA 184953N 0510158E
	*Note 7 (SILPA-PUTSO)
	MEDMO 194837N 0521027E
	METNO 201418N 0524050E
	DAXUT 203706N 0530802E
	SEMSI 204455N 0531724E
	DASAP 212047N 0540045E
	DEBIN 214716N 0543309E
	DARER 221152N 0550332E
	MIDGU 222706N 0552230E
	ITKUN 223731N 0553934E
	KATAK 224811N 0555708E
	EGVAN 230127N 0561907E
	GENIR 231111N 0563630E
	PUTSO 232037N 0565322E
M718	ULDUS 380000N 0510100E
	LABKA 364142N 0504342E
	GOPKA 361256N 0503724E
	DAVMI 355657N 0503401E
	SAVEH (SAV) 350106.8 0502216.9E
M719	MESPO 244817N 0595040E
	NAGES 262452N 0594514E
M720	DITAR 265903N 0250000E
	DANAD 285106N 0280609E
	TAKRI 292503N 0290432E
	FAYOUM (FYM) 292351N 0302335E
	CAIRO (CVO) 300532N 0312318E
M722	NARMI 261802N 0501939E
	*Note 7 (NARMI-TOSNA)
	TOSTA 262746N 0504913E
	SOLOB 262241N 0513132E
	VEDED 260558N 0514628E
	ORSIS 252801N 0521636E
	ENANO 252348N 0522559E
	TOSNA 251612N 0524116E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
M762	REXOD 211230N 0613830E *Note 7 (REXOD - VAXAS) SUR (SUR) 223247.9N 0592929.70E DELISO 225606N 0585233E ITURA 232351N 0580720E ALMOG 233524N0574940E VELOD 234611N 0573435E GEXAN 241257N 0565649E TAPRA 242607N 0563803E VAXAS 244308N 0561807E RUDAT 244605.1N 0561714.1E MIVEK 245240N 0561516E
M855	RASDA 330600N 0305700E MIVOR 322922N 0300603E GOMVA 320010N 0292615E NABSI 314353N 0290419E MERSA MATRUH (MMA) 311911N 0271320E SIDI BARANI (BRN) 313432N 0260020E LOSUL 314100N 250800E
M860	(SIIRT (SRT) 375438.40N 0415255.10E) *Note 7 (GADSI - SIIRT) EFPEZ 373518N 0423919E NINVA 372100N 0431300E ROXOP 364445N 0433322E VUSEB 361637N 0434800E TOMSI 354858N 0440229E OTALO 351700N 0441900E NAMDI 343027N 0444133E SEPTU 331300N 0444400E RESAK 323305N 0451552E KODAV 314500N 0460400E GADSI 303358N 0471116E
M861	ELEXI 3442371.105N 04110549.0E DIER-ZZOR (DRZ) 351831N 0401114E TABQA 354704N 0383432E ALEPPO (ALE) 361047N 0371234E NISAP 3647401N 0363805E (MILBA 365705N 0362846E)
M863	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E GIBAP 212218N 03809310E TOMRU 204411N 0361950E DARIB 193159N 0330252E SOMAK 190301N 0314717E RAGSI 185526N 0312747E UMIDA 185115N 0311704E TAVNA 174808N 0283938E SOGIN 171145N 0271200E ASKOL 154854N 0240005E KITOB 1521436N 0225848E (IPONO 150624 N 0222436E)
M872	(LINGI 343043N 0243244E) *Note 7 (REXUM-LINGI) METRU 340000N 0250900E ITEXO 325832N 0265834E NABSI 314353N 0290419E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	SOBAX 313508N 0291835E
	ORNAS 311838N 0291845E
	REXUM 301822N 0291917E
	FAYOUM (FYM) 292351N 0302335E
	LUBOS 284201N 0311306E
	SEMRU 280200N 0320306E
	BOPOB 272253N 0332316E
	HURGHADA (HGD) 271040N 0334747E
	*Note 7 (HGD- KIA)
	ALMOD 270123N 0341349E
	SILKA 263400N 0352900E
	WEJH (WEJ) 261046N 0362917E
	KULKI 254814N 0371445E
	TULOK 251001N 0383037E
	BOVET 245742N 0385436E
	EGVED 244857N 0391129E
	MADINAH (PMA) 243251N 0394219E
	MEDRO 242730N 0403649E
	GOKSA 242442N 0410403E
	BIR DARB (BDB) 241951N 0414928E
	AL DAWADMI (DAW) 242656N 0440709E
	TASBA 243059N 0443028E
	KAVUR 244246N 0454036E
	KING KHALID (KIA) 245310N 0464534E
	AKRAM 255036N 0475133E
	*Note 8 (OB) to MIDSJ
	ALMAL 261553N 0482108E
	DAVRI 264936N 0505732E
	MIDSJ 264142N0515442E
M877	VUSET 235540N 0590812E
	ITILA 2340155N 0584817E
	KUSRA 232426N 0582611E
M999	(ZARZAITINE (IMN) 280359.60N 0093939.30E)
	BUHRA 272234N 0124717E
	SEBHA (SEB) 265944N 0142735E
	HORUJ 270906N 0161442E
	KEPOS 272230N 0182810E
	MASIT 272816N 0194016E
	ARRIG 272930N 0200112E
	KARUB 273524N 0211524E
	SODOR 273747N 0220159E
	SARIR (GS) 273900N 0223000E
	DITAR 265903N 0250000E
	NAKDO 260554N 0282101E
	DAMPO 254707N 0292708E
	IMLAX 252924N 0302707E
	EL KHARGA (KHG) 252654N 0303527E
	KUNAK 252745N 0304112E
	EMENA 253749N 0315147E
	LUXOR (LXR) 254458N 0324607E
	ELELI 251854N 0332934E
	SEDVA 235813N 0354006E
	DASPA 230121N 0370841E
	DEDLI 224232N 0373719E
	*Note 7 (DEDLI- JDW)
	MUVOL 221749N 0381452E
	JEDDAH/KING ABDULAZIZ (JDW) 214244N 0390723E
	*Note 7 (LABNI-JDW)
	BOSUT 204705N 0393158E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	LOVIL 201553N 0394537E
	DAVUV 194408N 0395924E
	ABKAR 190511N 0401612E
	LABNI 165620N 0410921E
	DANAK 160800N 0412900E
	APDOS 153955N 0413947E
	(PURAD 145500N 0415354E)
N39	ULDUS 380000N 0510100E
	ULEXI 374344N 0510631E
	NOSHAHR (NSR) 363946.1N 0512751.4E
	ELEDI 350136N 0520356E
N72	BATEV 381005N 0501419E
	UMERO 375524N 0501514E
	GOLNU 355711N 0502052E
	ELIPO 354046N 0502117E
	SESBI 353154N 0502130E
	PEDAR 350826N 0502206E
	SAVEH (SAV) 350106.8N 0502216.9E
	UKITA 330657N 0500041E
	IMKEN 314407N 0493611E
	BANDAR MAHSHAHR (MAH) 303322.8N 0490858.0E
	UKNAR 295538N 0490450E
	TULAX 293853N 0490301E
N300	DOHA/HAMAD (DOH) 251459.66N 0513634.80E
	*Note 7 & 8 (DOH-LALDO)
	ELOBI 250753N 0521722E
	NAMLA 250532N 0523318E
	MIBRU 250321N 0524540E
	RUGIS 245916N 0530340E
	KAXOB 245423N 0532450E
	GIDOB 244445.3N 0535952.6E
	ORBOL 245134N 0542348E
	LORID 245552.5N 0543904.1E
	VEKOV 245750N 0544925E
	OBREV 250200N 0551135E
	LAGTA 250602N 0553315E
	RUKOR 250823N 0554603E
	NOLSU 251248.0N 0560737.8E
	SUTVO 251531N 0562153E
	LALDO 251806N 0563600E
N302	SIDAD 295231N 0482944E
	*Note 7 (SIDAD-ALVIX)
	ALVAX 292030N 0482422E
N303	(KASOL 283147N 0531533E)
	PARIM 123142N 0432712E
	ORNIS 141615N 0423657E
	KIPAM 150030N 0421526E
	RIBOK 154700N 0415230E
	LABNI 165620.3N 0410921.4E
N307	MELDO 320201N 0310406E
	LAKTO 323800N 0320500E
N310	BALMA 342856N 0350302E
	CHEKA (CAK) 341801.81N 0354159.64E
	*Note 7 (CAK- LATEB)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	LATEB 340154N 0362403.60E
	LOTAX 335952N 0363231E
	BASEM 333337.6N 0373907.1E
N311	NUBAR 220000N 0313824E
	TOVIL 175557N 0304439E
	DATIM 152833N 0301323E
	JEBRA 125520N 0291349E
	SIGNO 094716N 0275031E
	ASKON 061745N 0262537E
N312	ASVIB 265724N 0631812E
	GENEV 264247N 0603757E
	NOVSU 263407N 0573849E
	MOBET 264406N 0560908E
	GHESHM ISLAND (KHM) 264547.1N 0555427.6E
	SERDU 264715N 0545757E
	ROSUM 264741N 0543637E
	LAVAN ISLAND (LVA) 264843.4N 0532121.1E
	MIDSI 264142N 0515442E
N314	ATMUL 220000N 0290530E
	UMIDA 185115N 0311704E
	KUVTI 163152N 0325025E
	TIKAT 122418N 0353812E
N315	ASPUX 174404N 0600006E
	KUTVI 184306N 0582642E
	*Note: 7 (KUTVI-SITOL)
	MOBAB N201032 E0564415
	ORSIT N202306 E0562915
	VELIK 203322N 0561656E
	IVENI 205158N 0555430E
	SITOL 211604N 0552514E
	LOTOS 220000N 0503912E
	RAPMA 232256N 0482028E
	RESAL 240649N 0470427E
	KING KHALED (KIA) 245310N 0464534E
N316	HALAIFA (HLF) 262603N 0391609E
	NETOL 270748N 0363226E
	PASAM 273045N 0345542E
	*Note: 7 (PASAM-HDG)
	HURGHADA (HDG) 271040N 0334747E
N317	MENSA 245750N 0563249E
	NOLSU 251248.0N 0560737.8E
	REXEV 251502.3N 0560136.7E
	NADNI 251915.2N 0555658.9E
N318	MOUAB 314758N 0353559E
	QUEEN ALIA (QAA) 314423.41N 0360926.59E
	ALNOR 313955N 0362507E
	KINUR 313626N 0363714E
	ELOXI 313359N 0364536E
	GENEX 312935N 370052E
	GURIAT (GRY) 312445N 0371712E
	*Note: 7 (GRY-ORKAS)
	ORKAS 304725N 0384617 E
	NEVOL 302446N 0393841E
	GIBAM 300018N 0401632E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	VELAL 294602N 0403821E
	SITOD 292143N 0412313E
	TOLDI 290329N 0415621E
	TAMRO 283838N 0424047E
	NOTLI 281200N 0433714E
	LOXOM 275648N 0440832E
	MOGON 273847N 0444554E
	EMARO 273342N 0451330E
	DEBOL 272116N 0461843E
	*Note: 7 (DEBOL-REXOD)
	MAANI 270812N 0473152E
	*Note 8 (OB, OO)
	GESOR 270322N 0475751E
	NADEN 265250N 0484448E
	DASVA 264551N 0492301E
	OTERA 264110N 0493841E
	NAGTO 263717N 0495137E
	RABKA 263531N 0495728E
	SIBGA 263416N 0500134E
	LADNA 262749N 0502245E
	ELOSO 262409N 0503551E
	GOLKO 262149N 0504404E
	ASTAD 261812N 0505646E
	LUBET 261441N 0510347E
	TOTIS 261119N 0511027E
	RASDI 260425N 0512407E
	VELAM 255426N 0514347E
	VUTAN 255016N 0515218E
	RESAR 253707N 0522328E
	ALSEM 252703N 0524322E
	OVONA 252443N 0524739E
	PUTIB 251900N 0525755E
	BOXOT 251039N 0531817E
	KAPUM 245815N 0533450E
	BOSEV 245013.3N 0540448.8E
	MOGIM 244053N 0542820E
	IMLIP 243648N 0543549E
	ELEPO 243211N 0544410E
	SIXIV 242009N 0550439E
	KANIP 241040N 0552042
	LABRI 240344N 0553842E
	EGROK 235253N 0560126E
	LAKLU 232235N 0570401E
	GEVED 230105N 0575111E
	TOLDA 224008N 0583624E
	REXOD 211230N 0613830E
N319	DERBO 292542N 0611701E
	ZAHEDAN (ZDN) 292912.3N 0605405.7E
	KUVAV 313426N 0585747E
	IMPAT 322451N 0580856E
	ROXEK 331123N 0572138E
	TABAS (TBS) 334021.2N 0565330.9E
	RABER 343656N 0555902E
	ITELO 353534N 0550052E
	ODKAT 354650N 0544146E
	DASHT-E-NAZ (DNZ) 363853.6N 0531120.1E
	DASEL 371113N 0522020E
	RIGAN 373543N 0514052E
	ULDUS 380000N 0510100E
	(NASIL 390100N 0495100E)

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
N320	KISAL 101811N 0232526E GINKA 124701N 0250831E BOXIG 155958N 0272606E TAVNA 174808N 0283938E LAMAB 182601N 0290548E NUBAR 220000N 0313824E
N321	TIKAT 122418N 0353812E BOPID 163948N 0335142E BILAL 184044N 0330227E NUBAR 220000N 0313824E
N324	ALNUG 213009N 0500453E PURDA 210805N 0510329E METNO 201418N 0524050E MIPUB 200004N 0530607E GOBRO 193622N 0534741E ASTUN 180832N 0551040E
N430	TARBO 244351N 0574637E *Note: 7 (TARBO - ITLOB) ITLOB 244325N 0590701E
N438	LITAN 333456.28N 0343758.80E KALDE (KAD) 334826.70N 0352909.53E CHEKA (CAK) 341801.81N 0354159.64E KLEYATE (RA) 343510N 0360010E
N440	MOBON 274414N 0552513E *Note: 7 (GABKO-MOBON) BOSOS 264325N 0554311E RADEB 261140N 0554719E GABKO 260404N 0554755E
N558	DEKUM 043742N 0293936E LOROG 093551N 0295448E NABUS 110003N 0295910E DATIM 152833N 0301323E ASRAV 172442N 0301943E
N563	(KATBI 193133N 065002E) REXOD 211230N 0613830E *Note 8 (OB, OM) *Note 7 (REXOD- ALPOB) EMURU 221357N 0585338E TULBU 230005N 0571827E MEKNA 233309N 0560815E KURTA 234205N 0554900E SODEX 234954N 0553202E ELUDA 235107N 0552905E NOBTO 235525N 0551840E SIGMO 240710N 0545837E VUXOD 242005N 0543625E UMIBU 242331N 0543027E KUGTO 243231N 0542224E BOSEV 245013.3N 0540448.8E ITKEV 250104N 0534526E KUSBA 251634N 0532847E TAGDU 252258N 0532153E IMGUX 252950N 0531428E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ALPOB 254218N 0530055E
	TOTLA 263806N 0504301E
	RULEX 264529N 0501745E
	SILNO 264026N 0475745E
	GIBUS 255724N 0472829E
N565	KAMEL 322000N 036440E
	ZELAF 325700N 0380000E
N567	SOMAD 372645N 0543255E
	LOVEN 363926N 0553355E
	IBRAV 362041N 0555430E
	MUSEG 354656N 0562631E
	IMKUK 345602N 0571346E
	TASLU 342531N 0574131E
	BIRJAND (BJD) 325820.7N 0591200.5E
N568	AVONO 092606N 0335418E
	DEDVA 102746N 0333134E
	SUVRI 135436N 0321800E
	TOVIL 175557N 0304439E
	ATMUL 220000N 0290530E
N569	BONUM 221252N 0393805E
	RABTO 221608N 0400326E
	VEMEM 221554N 0400118E
	LOTOS 220000N 0503912E
	*Note: 7 (LOTOS-GOLNI)
	TOKRA 220925N 0553350E
	*Note: 7 (GISKA-TOKRA)
	SUTLI 220121N 0560404E
	TOPSO 215653N 0562043E
	MOGOK 215057N 0564236E
	KEBAS 214330N 0570948E
	GISKA 213503N 0574014E
	UMILA 211555N 0584738E
	GOLNI 210014N 0594130E
	LOTAV 203700N 0605700E
N570	ITURA 232351N 0580720E
	*Note 7 (ITURA-IVIVA)
	IVIVA 245945N 0574958E
	KATUS 251600N 0574700E
	GIGAB 253708N 0573231E
	NOVSU 263407N 0573849E
	BONIK 264444N 0562651E
	MOBET 264406N 0560908E
	GHESHM ISLAND (KHM) 264547.1N 0555427.6E
	SERDU 264715N 0545757E
	ROSUM 264741N 0543637E
	LAVAN ISLAND (LVA) 264843.4N 0532121.1E
	DURSI 271219N 0520144E
	KAVAM 265737N 0515818E
	MIDSI 264142N 0515442E
N571	(DOGET 210703N 0660001E)
	PARAR 222630N 0630700E
	*Note 7 & 8 (PARAR-ALPOB)
	KIPOL 230410N 0612903E
	RAGMA 232301N 0603846E
	SODEB 234747N 0593023E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	VUSET 235540N 0590812E
	TOVDI 240733N 0584021E
	KIROP 243000N 0574700E
	ASNIB 243949N 0572105E
	MENSA 245750N 0563249E
	LUBAT 250223N 0561749E
	ENEGA 250556N 0560601E
	RUKOR 250823N 0554603E
	IVOXI 251239.6N 0552513.1E
	TUDIS 251009N 0550825E
	SENPA 251959.6N 0543210.5E
	RUDUK 252408N 0541650E
	ULIVA 252647N 0540611E
	SISOB 253150N 0534509E
	PURLI 253644N 0532436E
	ALPOB 254218N 0530055E
	SOLOB 262241N 0513132E
	MEDMA 263412N 0505454E
	TOTLA 263806N 0504301E
	RULEX 264529N 0501745E
	SILNO 264026N 0475745E
	KUTEM 264359N 0473521E
	BOPAN (BPN) 270314N 0452642E
N572	ROTEL 264015N 0502149E
	*Note 7 (ROTEL-DASUT)
	EGMOR 264211N 0502907E
	DAVRI 264936N 0505732E
	TORBO 265223N 0511024E
	SEVNI 264401N 0513815E
	SOGAN 263915N 0515408E
	MURUB 262455N 0523751E
	DASUT 261832N 0531108E
N574	ATMUL 220000N 0290530E
	ASRAV 172442N 0301943E
	KASAB 134346N 0304233E
	KISOV 100955N 0310359E
	JUBA (JUB) 045234N 0313559E
N629	TARDI 243418N 0560915E
	*Note 7 (TARDI-TOTOX)
	NOSMI 241757N 0563002E
	BOTAM 240227N 0565320E
	ELIVA 235335N 0570634E
	MUSUK 234320N 0572148E
	IVAKU 232919N 0574103E
	GEPOT 231446N 0580053E
	GIDAN 230104N 0582232E
	LOXOP 223722N 0594548E
	TOTOX 215030N 0622230E
N636	MAGRI 385408N 0462300E
	ARDABIL (ARB) 381856.5N 0482605.1E
	UMERO 375524N 0501514E
	ULEXI 374344N 0510631E
	RIGAN 373543N 0514052E
	GORGAN (GGN) 365544.7N 0542233.3E
	SABZEVAR (SBZ) 361011.0N 0573414.9E
	LOXED 355854N 0580609E
	PAMTU 351006N 0610806E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
N638	KING KHALED (KIA) 245310N 0464534E OVEKU 250955N 0445701E MADINAH (PMA) 243251N 0394219E
N685	DEBOL 272116N 0461843E *Note 7 (DEBOL-LAKLU) *Note 8 (TAGSO-TOSNA) MAANI 270812N 0473152E GESOR 270322N 0475751E NADEN 265250N 0484448E DASVA 264551N 0492301E DAMMAM/KING FAHD (KFA) 262951N 0494643E NARMI 261802N 0501939E BAHRAIN (BHR) 261530N 0503919E TULUB 260644N 0510041E DENVO 260452N 0510509E PATOM 255821N 0511836E EMISA 254658N 0514207E KAPAX 254218N 0515118E ORSIS 252801N 0521636E ENANO 252348N 0522559E TOSNA 251612N 0524116E UMEVU 250545N 0530653E KAPUM 245815N 0533450E GIDOB 244445.3N 0535952.6E *Note 8 (OO) SUVDU 243501N 0542410E RURAL 243045N 0543156E ODKUN 242608N 0544017E NAPMA 241250N 0550312E ORNEL 240311.7N 0551942.1E RETAS 235754N 0553423E KOBIM 233309N 0562701E PUTSO 232037N 0565322E LAKLU 232235N 0570401E
N687	KING KHALID (KIA) 245310N 0464534E TAKTI 252153N 0474340E KINIB 254108N 0482317E MIBRA 255654N 0485053E DEMKA 261008N 0491310E SETBA 261346N 0491921E DAMMAM/KING FAHAD (KFA) 262951N 0494643E SIBGA 263416N 0500134E *Note 7 (SIBGA-TORBO) ROTEL 264015N 0502149E EGMOR 264210.81N 0502906.73E DAVRI 264936.05N 0505731.88E TORBO 265222.68N 0511024.30E
N694	KING KHALD (KIA) 245310N 0464534E TORKI 261400N 0463103E SIBLI 265459N 0462334E AKODI 275012N 0461320E HAFR AL BATIN (HFR) 281949N 0460746E
N697	MENLI 294700N 0315206E SISIK 293600N 0324106E *Note 7 (NWB-SISIK) NUWEIBAA (NWB) 290156N 0344016E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	*Note 7 (NWB-KITOT above FL350)
	KITOT 290205N 0345050E
	NAGIP 284206N 0361133E
	RABUG 283622N 0363402E
	DAXEM 283224N 0364923E
	NABEK 283030N 0365643E
	SOBAS 275600N 0390453E
	REVAB 273424N 0405710E
	HAIL (HIL) 272530N 0414059E
	*Note 7 (NARMI-HIL)
	LOSEL 272135N 0422545E
	NALBU 271420N 0434206E
	PASIT 271011N 0442253E
	ALKIR 270758N 0444343E
	BOPAN (BPN) 270314N 0452643E
	ANTER 270212N 0453359E
	*Note 8 (BPN-TORBO)
	SIBLI 265459N 0462334E
	LUGAL 264603N 0472235E
	MEDGO 264433N 0475257E
	LABLI 264522N 0482100E
	TAYMA 264556N 0484212E
	DAMMAM/KING FAHD (KFA) 262951N 0494643E
	NARMI 261802N 0501939E
	BAHRAIN (BHR) 261530N 0503919E
	*Note 7 (BAH-TORBO)
	GOLKO 262149N 0504404E
	TOSTA 262746N 0504913E
	MEDMA 263421N 0505454E
	VEDOS 264106N 0510045E
	SODAK 264634N 0510530E
	TORBO 265223N 0511024E
N700	ULDUN 262429N 0560924E
	KAVEG 261608N 0552434E
	MENDI 254955N 0550522E
	DAPER 254522N 0545731E
	*Note 7 (DOH-DAPER)
	KUSBA 251633.60N 0532847.40E
	RORON 252052.80N 0530915.60E
	OVONA 252443.20N 0524739.60E
	DOHA/HAMAD (DOH) 251459.66N 0513634.80E
N702	TUMAK 255031N 0531108E
	*Note 7 (TUMAK-RAGAS)
	VEDOM 260109N 0524456E
	ORLUP 260651N 0523216E
	VELAK 261307N 0521821E
	LABOP 261907N 0520429E
	ALTOM 262230N 0515639E
	BOPOV 262430N 0515043E
	ALMOK 262832N 0513840E
	GITBO 263527N 0511750E
	VEDOS 264106N 0510045E
	MOGAS 264800N 0503909E
	TOLMO 265504N 0502927E
	EGLIT 270256N 0502006E
	TOKMA 270939N 0501159E
	ORSOL 272135N 0500208E
	ITNAS 274644N 0493957E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	GODRI 280257N 0494308E
N705	MISUK 290507N 0290621E *Note 7 (MISUK -TORBO) BOPIX 295154N 0282438E MUPSO 310034N 0272139E MERSA MATRUH (MMA) 311911N 0271320E SALUN 340000N 0242700E
N710	BOPIX 295154N 0282438E KIVIL 293845N 0284415E TAKRI 292503N 0290432E
N715	TONVO 250500N 0563200E *Note 7 (UMEVU - TONVO) LUBAT 250223N 0561749E IMPED 245824.5N 0560406.2E UKVAK 245147N 0553329E GEVIV 244118N 0545000E IMLIP 243648N 0543549E KUGTO 243231N 0542224E UKILI 243815.5N 0535636.4E ALNEV 244601N 0534122E KAXOB 245423N 0532450E UMEVU 250545N 0530653E
N717	DASUT 261832N 0531108E VEKEL 261929N 0535738E MIRIT 262013N 0545411E ORPEN 263119N 0552008E GHESHM ISLAND (KHM) 264547.1N 0555427.6E
N764	NOBSU 171554N 0431315E LABDO 164842N 0442032E IMDEN 162101N 0452744E LOPAD 161651N 0453738E MEGPA 160017N 0461653E PAPOR 154322N 0465652E DEKMA 152226N 0474553E PAXUD 145436N 0485045E MUKALLA (RIN) 144015.30N 0492329.30E XABIL 142924N 0494809E NOTBO 142609N 0495530E ORBAT 140638N 0503924E GESIX 134440N 0512823E KAVAN 133250N 0515431E RAPDO 132317N 0521532E KEDAV 125553N 0531509E SOCOTRA (SCT) 123748.80N 0535428.70E SUHIL 120000N 0550000E (AVELI 112201N 0560800E)
N767	PARAR 222630N 0630700E *Note 7 (PARAR-ELIGO) VUSIN 225940N 0605510E ATBED 230352N 0603752E ELIGO 232458N 0590848E
N881	RASKI 230330N 0635200E SETSI 230412N 0614410E KIPOL 230410N 0612903E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	*Note 7 (TULBU-KIPOL)
	ATBED 230352N 0603752E
	AMBOS 230324N 0595405
	MUSRU 230256N 0592223E
	OBTIN 230216N 0585920E
	GIDAN 230104N 0582232E
	GEVED 230105N 0575111E
	TULBU 230005N 0571827E
N929	DASLO 254537N 0523029E
	*Note 7 & 8 to (DASLO-GIBUS)
	NAGOG 255214N 0521615E
	BONAN 260201N 0515505E
	VEDED 260558N 0514628E
	SOGAT 262029N 0511443E
	TOSTA 262746N 0504913E
	DANAG 264438N 0494856E
	NADNA 264245N 0485309E
	SILNO 264026N 0475745E
	ASKOK 262623N 0474809E
	MUSRI 261647.0N 0474137.0E
	GIBUS 255724.0N 0472829.0E
P146	RASHT (RST) 371934.8N 0493657.1E
	GODNA 382033N 0465457E
	MURID 382744N 0463525E
	SIBVU 384444N 0454657E
	REXUS 385624N 0451332E
	AGINA 391924N 0440512E
	(AGRI (ARI) 393844.90N 0430137.50E)
P300	KALDE (KAD) 334826.70N 0352909.53E
	LATEB 340154N 0362403.60E
P302	MIDSI 264142N 0515442E
	DASDO 285401N 285401N
P304	EMISO 231734N 0562307E
	DEMKI 224941N 0562308E
	NAMVA 223309N 0562223E
	TOPSO 215653N 0562043E
	KUROV 211627N 0561853E
	VELIK 203322N 0561656E
P307	SERSA 251945N 0553118E
	*Note 7 (SERSA-VAXIM)
	PAVAG 251546N 0554042E
	ITBON 251426N 0555257E
	KULBA 251326N 0560153E
	NOLSU 251248.0N 0560737.8E
	TONVO 250500N 0563200E
	PURNI 243804N 0574354E
	*Note 8 (OO)
	KUNUS 241927N 0583226E
	ALSAS 240054N 0591955E
	DERTO 235033N 0594746E
	VAXIM 231900N 0611100E
	SETSI 230412N 0614410E
	PARAR 222630N 0630700E
P309	AVONO 092606N 0335418E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	BOTOK 102859N 0334548E
	SODIL 105401N 0334204E
	ELULA 143253N 0330853E
	KUVTI 163152N 0325025E
	SOGAD 171404N 0324125E
	NUBAR 220000N 0313824E
P312	MUKALLA (RIN) 144015.30N 0492329.30E
	ULDIB 141148N 0485422E
	AMBOD 133357N 0481527E
	DATEG 123549N 0471627E
	TIMAD 115500N 0463500
	(EGROV 112042N 0455900E)
P313	VATEN 153358N 0323312E
	KAREP 151838N 0313308E
	ASNON 150818N 0305312E
	DELAM 144001N 0290644E
	DEBOX 144424N 0281037E
	GAMAR 150042N 0240843E
	IPONO 150624N 0222436E
P315	NUBAR 220000N 0313824E
	SOMAK 190301N 0314717E
	MEROWE (MRW) 182448.81N 0314948.95E
	ITOMO 102133N 0322108E
	IMDUR 074114N 0323107E
P316	SALALLAH (SLL) 170259.35N 05406576.91E
	*Note 7 (OO)
	DAXAM 171612N 0544715E
	*Note 7 (DAXAM-MCT)
	KAPOP 174544N 0550930E
	GAGLA 180505N 0552410E
	NALTI 182012N 0553431E
	DEDSO 185811N 0560041E
	GIVNO 195011N 0563059E
	MOBAB 201032N 0564415E
	GISKA 213503N 0574014E
	RADAX 220809N 0580230E
	MUSCAT (MCT) 233528.04N 0581536.48E
P319	DAROR 270244N 0495815E
	*Note 7 (DAROR-DASUT)
	RAMSI 270249N 0500714E
	GASSI 270257N 0502229E
	VELOG 270215N 0503056E
	TOSDA 270005N 0505629E
	OBTAR 265934N 0510309E
P322	AVONO 092606N 0335418E
	SITIK 092556N 0310809E
	DEMTI 093203N 0264506E
	ALMAM 093345N 0244451E
	MONAN 093300N 0234000E
P323	(DONSA 143518N 0651136E)
	GIDAS 142004N0600000E
	TOKPU 145122N 0571103E
	DAPAB 151115N 0552354E
	NODMA 152600N 0533400E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ENADO 153333N 0532015E
	DAVRA 155918N 0523209E
	TAKMI 160542N 0522012E
	AL GHADAH (GDA) 161117N 0520942E
	SIMKO 161821N 0515526E
	THAMD 171700N 0495500E
	KANEM 173700N 0492655E
	ALNES 181818N 0482811E
	KUTMA 182927N 0481202E
	GERUG 185530N 0473402E
	DAVLO 192343N 0465227E
	WADI AL DAWASIR (WDR) 203019N 0451219E
P425	DAHRAN (DHA) 261538N 0500824E
	*Note 8 to ALSER
	BAHRAIN (BAH) 261551N 0503855E
	DAVOV 262255N 0504012E
	DATGO 262957N 0504130E
	TOTLA 263806N 0504301E
	MEMKO 264611N 0504427E
	BOXOG 265403N 0504553E
	ALSER 271100N 0504900E
P430	DOHA/HAMAD INTL (DOH) 251459.66N 05136354.80E
	(DOH) 251459N 0513635E
	*Note 7 & 8 (DOH-ALTOM) to MIDS
	BAYAN 252926N 0514849E
	*Note 7 to MIDS (BAYAN-ALTOM)
	KAPAX 254218N 0515118E
	VUTAN 255016N 0515218E
	ALVEN 255418N 0515315E
	BONAN 260201N 0515505E
	RAMKI 261138N 0515625E
	ALTOM 262230N 0515639E
P440	EMIXI 242105N 0520019E
	*Note 7 (ALGUX-EMIXI)
	ELIGA 242121N 0530148E
	ASRAT 242114N 0535944E
	ALGUX 242247N 0541209E
P513	BUBAS 245938N 0570003E
	GERAR 240600N 0573616E
	MIXAM 234139N 0575523E
	MUSCAT (MCT) 233528.04N 0581536.48E
P517	WAFRA (KFR) 283715N 0475729E
	DEKOB 283135N 0475106E
	*Note 7 (DEKOB-EMARO)
	GOVAL 281211N 0472908E
	DUSBO 280616N 0465254E
	KAPAG 280355N 0463845E
	NONLU 275921N 0461137E
	KING SAUD AIR BASE (KMC) 275250N 0453321E
	EMARO 273342N 0451330E
P550	ALVEN 255418N 0515315E
	BONAN 260201N 0515505E
	*Note 7 (ALVEN-SYZ)
	MODOG 261012N 0515935E
	LABOP 261907N 0520429E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	KUMLA 262609N 0520822E
	RAGAS 263537N 0521337E
	KAPIP 264322N 0521403E
	PEGET 270434N 0521515E
	MIXEM 271520N 0521556E
	LAGSA 283306N 0522056E
	SHIRAZ (SYZ) 293224.6N 0523519.6E
	REXEB 295208N 0520923E
	YASOUJ (YSJ) 304136.0N 0513324.1E
	RASLA 331202N 0493409E
	RIGOX 350618N 0475636E
	TUGEL 361220N 0470444E
	LAKLI 373730N 0455519E
	VUVAG 382529N 0452926E
	BORES 382829N 0452137E
	DASIS 385435N 0441230E
P552	DATEG 123549N 0471627E
	SEPRO 132824N 0475035E
	ULAXI 141524N 0482317E
	RASBA 144124N 0484128E
	BOSAX 144740N 0484553E
	PAXUD 145436N 0485045E
	DEMNA 151652N 0490626E
	RALMO 153824N 0492155E
	GINBO 160349N 0494017E
	KEBER 170444N 0502029E
	ITELI 171310N 0502605E
	IMPOS 183137N 0511848E
P555	OBVOM 241503N 0515552E
	LONUT 241520N 0530149E
	IMKUD 241513N 0535956E
	RAPNO 241452N 0541559E
	ATUDO 241708.0N 0543432.0E
P556	ASKON 061745N 0262537E
	PEDOS 094018N 0290715E
	SISOR 124543N 0313859E
	ELULA 143253N 0330853E
	IMLAS 173413N 0354541E
	BOGUM 200636N 0380300E
P557	NUBAR 220000N 0313806E
	*Note 7 (NABSI-NUBAR)
	ALKED 222152N 0313052E
	ORLEX 225732N 0311859E
	DESDO 251932N 0303034E
	VUTAB 252648N 0302802E
	IMLAX 252924N 0302707E
	MEVDA 254818N 0302029E
	DAVIX 262034N 0300904E
	TUDSI 264114N 0300128E
	MISUK 290507N 0290621E
	LOTOB 293510N 0290601E
	OBRAN 302957N 0290522E
	GOMGO 311152N 0290446E
	NABSI 314353N 0290419E
P559	RASLI 315424N 0383648E
	TURAI (TRF) 314136N 0384408E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	*Note 7 (TRF-VUTEB)
	KAVID 303552N 0401147E
	GADLI 302312N 0403821E
	DELNI 300448N 0411627E
	TOKLU 294213N 0420220E
	LUDEP 290948N 0430646E
	RASMO 285713N 0433119E
	LOTOK 280834N 0450402E
	KING SAUD AIR BASE (KMC) 275250N 0453321E
	BOTEP 274420N 0461425E
	RADGI 272640N 0473708E
	ALPOT 271841N 0480511E
	*Note 8 (ULOVO-NAPLO)
	SILBA 270554N 0485301E
	KURKA 270449N 0491636E
	EGREX 270433N 0492158E
	DAROR 270244N 0495815E
	RAMSI 270249N 0500714E
	GASSI 270257N 0502229E
	KOBOK 265839N 0503349E
	DEBEN 265254N 0504856E
	DAVRI 264936N 0505732E
	SODAK 264634N 0510530E
	DANOB 263946N 0512640E
	BOTOB 263350N 0514505E
	ROSAN 263129N 0515220E
	KUMLA 262609N 0520822E
	ASPAK 262115N 0522257E
	UKUBU 261428N 0524039E
	TOMSO 260611N 0530214E
	NALPO 255602N 0532945E
	SOKAK 255131N 0534251E
	KIVUS 254522N 0540032E
	PUSOT 253919N 0542011E
	AMBOV 253439N 0543512E
	VUTEB 253644.6N 0545149.4E
P560	PORT SUDAN (PSD) 311743N 0321416E
	BOGUM 200736N 0380360E
	AL BAHA (BHA) 2017833N 04137845E
	KITAP 224928N 0522923E
P561	BENINA (BNA) 320728N 0201513E
	KATAB 292501N 0290506E
P562	DEESA 294509N 0364102E
	ENABI 290739N 0385650E
	TAMRO 283938N 0424147E
	LOTOK 280857N 0450512E
P563	HAIL (HIL) 272630N 0414159E
	PASAM 273145N 0345642E
	HURGHADA (HGD) 271140N 0334847E
P565	KAFIA 084400N 0233100E
	LOPON 100606N 0240338E
	GINKA 124701N 0250831E
	HAMID 140400N 0254023E
	EGSUM 185726N 0274545E
	ATMUL 220000N 0290530E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
P566	VATEN 153358N 0323312E
	KAREP 151838N 0313308E
	ASNON 150818N 0305312E
	DELAM 144001N 0290644E
	ELFASHER (FSR) 133554.09N 0251810.66E
	ILBIB 123242N 0222700E
P567	KAMAR 323900N 0604400E
	BIRJAND (BJD) 325820.7N 0591200.5E
	PATEN 340825N 0572334E
	DAPIN 342034N 0570413
	ALROT 351116N 0554136E
	ITELO 353534N 0550052E
	ODKAT 354650N 0544146E
	DASHT-E-NAZ (DNZ) 363853.6N 0531120.1E
	DASEL 371113N 0522020E
	RIGAN 373543N 0514052E
	ULDUS 380000N 0510100E
	(NETON 394542N 0481142E)
P568	EPLAS 040000N 0341148E
	KUNDI 083920N 0313819E
	PEBOR 095738N 0305437E
	RAMKO 102439N 0303926E
	JEBRA 125520N 0291349E
	DEBOX 144424N 0281037E
	BOXIG 155958N 0272606E
	ELUXO 182038N 0260126E
	EMAMU 191646N 0252654E
	ORNAT 200000N 0250000E
P570	(TEGOR 183503.30N 0623002.70E)
	KITAL 200300N 0601800E
	GOLNI 210014N 0594130E
	TAVKO 211519N 0593147E
	BONOM 213636N 0591800E
	EMURU 221357N 0585338E
	TOLDA 224008N 0583624E
	GIDAN 230104N 0582232E
	ITURA 232351N 0580720E
	MIXAM 234139N 0575523E
P572	KISAL 101811N 0232526E
	GAILY 123030N 0270639E
	VATEN 153358N 0323312E
P574	(BOLIS 203333N 0650002)
	TOTOX 215030N 0622230E
	LOSIM 223513N 0603238E
	KAXEM 225103N 0595243E
	MUSRU 230256N 0592223E
	PAROK 231030N 0590245E
	*Note 7 (PAROK-SERSA)
	KUSRA 231726N 0582611E
	MIXAM 234139N 0575523E
	DAPOK 235956N 0572959E
	EMATA 242309N 0565721E
	SOLUD 243223N 0564421E
	PUXIL 244117N 0563145E
	GISMO 244743N 0562236E
	MIVEK 245240N 0561516E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	IMPED 245824.5N 0560406.2E
	NORGA 250352N 0555415E
	RUKOR 250823N 0554603E
	SERSA 251945N 0553118E
	TOVIV 253302N 0551942E
	KUMUN 254000N 0551512E
	PAPAR 264000N 0542700E
	SHIRAZ (SYZ) 293224.6N 0523519.6E
	ASNIT 303854N 0520948E
	OBTUX 312223N 0515242E
	LOXAK 314454N 0514344E
	EGPAT 323330N 0512409E
	IMRAG 325142N 0511643E
	PEKAM 332904N 0510118E
	EGVEL 344258N 0503005E
	SAVEH (SAV) 350106.8N 0502216.9E
	SOGOL 350829N 0503128E
	RUDESHUR (RUS) 352643.7N 0505419.3E
	TEHRAN (TRN) 354149.1N 0511701.6E
	NAGMO 360214N 0512055E
	DANEB 362001N 0512408E
	NOSHAHR (NSR) 363946.1N 0512751.4E
	ULEXI 374344N 0510631E
	ULDUS 380000N 0510100E
	(IBRUT 413524N 0510354E)
P634	LALDO 251806N 0563600E
	*Note 7
	ATBOR 251007N 0551947E
P693	AL AHSA (HSA) 2516445N 0492903E
	LADBO 242004N 0511411E
	*Note 8 to BUNDU
	BATHA (BAT) 241257N 0512707E
	DEMTA 241926N 0513533E
	BUNDU 250024N 0522924E
P699	TUKSI 252006N 0560525E
	*Note 7 (TUKSI-BAH)
	PAVAG 251546N 0554042E
	IVOXI 251239.6N 0552513.1E
	TUDIS 251009N 0550825E
	EGTAG 250856N 0545652E
	NABIX 251241.1N 0543147.3E
	MOBUL 251559N 0541841E
	VEGEK 251837N 0540803E
	RAGDO 252212N 0535106E
	OXARI 252535N 0533458E
	IMGUX 252950N 0531428E
	ORMID 253354N 0525434E
	*Note 8 (ORMID-KFA)
	DASLO 254537N 0523029E
	ALKAN 255214N 0521615E
	BONAN 260201N 0515505E
	VEDED 260558N 0514628E
	KUNDO 261631N 0512325E
	SOGAT 262029N 0511443E
	RIKET 261952N 0510954E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	ASTAD 261812N 0505646E
	BAHRAIN (BHR) 261530N 0503919E
	NARMI 261802N 0501939E
	KING FHAD (KFA) 262153N 0494910E
P700	ROTOX 283323N 0494809E
	*Note 7 (DENVO-ROTOX)
	GEPUT 281307N 0493423E
	DAMUR 280137N 0492638E
	GIRSI 274126N 0493311E
	ORDAN 271706N 0495442E
	RAMSI 270249N 0500714E
	LOTOR 264854N 0502200E
	EGMOR 264211N 0502907E
	DESBU 263240N 0503241E
	ELOSO 262409N 0503551E
	BAHRAIN (BHR) 261530N 0503919E
	TULUB 260644N 0510041E
	DENVO 260452N 0510509E
P708	LONOS 283027N 0491713E
	ORGEL 281312N 0494614E
	DATEN 273118N 0501832E
	REVAX 272026N 0502651E
	GETAL 270410N 0504040E
	DEBEN 265254N 0504856E
	RASDI 260425N 0512407E
	VELAM 255426N 0514347E
	VUTAN 255016N 0515218E
	RESAR 253707N 0522328E
	ALSEM 252703N 0524322E
	OVONA 252443N 0524739E
P715	KUVER 280925N 0500600E
	*Note 7 (MESVI-KUVER)
	ALNIN 283306N 0501036E
	KHARK ISLAND (KHG) 291550.0N 0501900.7E
	MESVI 311057N 0500006E
P718	PAXER 345612N 0551237E
	ITELO 353534N 0550052E
	SOMAD 372645N 0543255E
P751	(ARLOS 343731N 0225959.40E)
	AMIBO 3456.7N 2136.4E
	METRU 340000N 0250900E
	*Note 7 (KUNKI-METRU)
	MERSA MATRUH (MMA) 311911N 0271320E
	DASUM 310802N 0273234E
	TAKRI 292503N 0290432E
	KUNKI 290726N 0291949E
	ASYUT (AST) 270152N 0310157E
	LUXOR (LXR) 254458N 0324607E
	DANOG 251341N 0330905E
	UMINI 234900N 0341006E
	ALEBA 220000N 0352700E
	TOMRU 204411N 0361950E
	PORT SUDAN (PSD) 192404.12N 0371430.21E
	[ASMARA] *Note 1 151704N 0385403E
	TOKAR 180624N 0374812E
	DEKRA 123924N 0431544E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	PARIM 123142N 0432712E
	ARABO 123852N 0440401E
	DIRAK 124211N 0442113E
	ADEN (KRA) 124952.20N 0450125E
	RABOL 125856N 0454119E
	MIXAN 132222N 0472427E
	SEPRO 132824N 0475035E
	AMBOD 133357N 0481527E
	SOKEM 134235N 0485329E
	PAXED 135027N 0492759E
	XANLO 135653N 0495628E
	ORBAT 140638N 0503924E
	RIGAM 143932N 0530414E
	DAPAB 151115N 0552354E
	ANGAL 161404N 0600004E
	(MAMIG 161404N 0600004E)
P752	ALSIR 165804N 0471248E
	UKPAD 165415N 0471848.60E
	ALSOD 164203.60N 0473753.40E
	NADAK 161935.40N 0481259.40E
	DANIN 160543.80N 0483437.80E
	SAYUN (SYN) 155742.64N 0484710.18
P753	PADUR 172958N 0473825E
	TASBI 165853N 0481118E
	XALTA 163546.20N 0483545E
	GIBAX 162047N 0485137E
P891	MUSRI 261647N 0474137E
	*Note 7 (MUSRI-KUA)
	MEDGO 264433N 0475257E
	GESOR 270322N 0475751E
	KEDAT 272149N 0475901E
	IVOBA 274138N 0480219E
	KEBOK 274951N 0480341E
	KUNRU 283220N 0481050E
	KUWAIT (KUA) 291457N 0475717E
P899	MIXAM 234139N 0575523E
	*Note 7 (MIXAM-KUPSA)
	VELOD 234611N 0573435E
	PAXIM 240245N 0561631E
	ITRAX 241248N 0554749E
	VAVIM 241535.1N 0553622.9E
	ROVOS 241825.0N 0552143.0E
	SIXIV 242009N 0550439E
	UMIBU 242331N 0543027E
	MEKRI 243122.8N 0535500.0E
	*Note 8 (OB)
	KUMSI 245050N 0523619E
	MEKMA 245430N 0522506E
	KUPSA 250445N 0521151E
P975	(LEKRO 371638.80N 0405817.30)
	LESRI 370420N 0411348E
	SIDNA 363458N 0414159E
	TUBEN 351724N 0425434E
	MUTAG 343003N 0433834E
	*Note 7 (MUTAG-LONOS)
	SOGUM 341212N 0435454E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	PUTSI 333200N 0443700E
	SINKA 332137N 0444753E
	NOLDO 324932N 0452129E
	KATUT 323737N 0453439E
	DENKI 322228N 0455122E
	ILMAP 351724N 0460921E
	ULDUR 305023N 0472958E
	SIDAD 295231N 0482944E
	EGVAL 292448N 0484545E
	SESRU 290900N 0485450E
	DANAL 285128N 0490450E
	IMDOX 283455N 0491438E
	LONOS 283027N 0491713E
	ORGEL 281312N 0494614E
	DATEN 273118N 0501832E
	REVAX 272026N 0502651E
	GETAL 270409N 0504039E
	LOSI 270118N 0504208E
	BOXOG 265403N 0504553E
	NABOS 264354N 0505145E
	TOTIS 261119N 0511026E
R2	ATMUL 220000N 0290527E
	TULOP 252209N 0262226E
	DITAR 265903N 0250000E
	ARADA 304636N 0213348E
	BENGHAZI BENINA (BNA) 320728N 0201513E
R205	ANARAK (ANK) 333215N 0534347E
	BIRJAND (BJD) 325821N 0591200E
R219	KUKLA 341438.34N 0344446.8E
	KALDE (KAD) 334826.70N 0352909.53E
R401	(EKBEL 112256N 0550000E)
	SUHIL 120000N 0550000E
	BOTEM 135413N 0551418E
	DAPAB 151115N 0552354E
	KIVEL 165306N 0553633E
	ERDAX 175903N 0554458E
	DEDSO 185811N 0560041E
	HAIMA (HAI) 195813.3N 05616540.82E
	VELIK 203322N 0561656E
	*Note 7 (VELIK-GABKO)
	ALNUN 211625N 0561041E
	SUTLI 220121N 0560404E
	DATBU 222243N 0560054E
	KATAK 224811N 0555708E
	LABSA 230153N 0555505E
	DOLFI 233253N 0555024E
	KURTA 234205N 0554900E
	MUSAP 241754N 0555245E
	PEDOG 242225.4N 0555333.7E
	GIDIS 243600.0N 0555600.0E
	ANVIX 244655.0N 0555616.0E
	NORGA 250352N 0555415E
	ITBON 251426N 0555257E
	MISEG 252134N 0555205E
	ITLAP 254925N 0555010E
	ASNEK 255630.7N 0554904.7E
	GABKO 260404N 0554755E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
R402	LAKLU 232235N 0570401E KUNGO 230034N 0565850E NALKI 224928N 0565614E *Note 7 (NALKI-HAI) MOGOK 215057N 0564236E TUBSA 204029N 0562626E HAIMA (HAI) 195813.31N 05616510.82E
R462	(BIVIN 250350N 0614744E) METBI 245556N 0612816E DENDA 244230N 0605451E EGTAL 243458N 0603724E ASLOM 242113N 0600552E MIXOL 240523N 0592959E ALSAS 240054N 0591955E VUSET 235540N 0590812E *Note 7 (VUSET-MIXAM) MIXAM 234139N 0575523E
R611	KHARTOUM (KTM) 153357.93N 0323312.16E EMITA 142130N 0334444E TIKAT 122418N 0353812E
R650	ASRAB 254726N 0330619E KUSAT 264748N 0333617E HURGHADA (HGD) 271040N 0334747E IMLUX 273131N 0340323E SHARM EL SHEIKH (SHM) 275953N 0342448E DELNA 283040N 0343212E NUWEIBAA (NWB) 290156N 0344016E NALSO 293210N 0345242E
R652	ULINA 292451N 0345818E METSА 292707N 0345903E BAKIR 294053N 0350708E QATIM 295600N 0351600E LOXUS 301300.90N 0352600E LOSIL 304851.20N 0354741.31E QATRANEH (QTR) 311454.41N 0360334.31E EGLOT 311656.94N 0363214.16E KULDI 311847.07N 0363214.16E KIPAS 312324N 0370641E GURIAT (GRY) 312445N 371712E TURAIF (TRF) 314136N 0384408E OVANO 314801N 0390951E *Note 7 (OVANO- GIBUX) DAXAN 320512N 0393719E KASIR 323954N 0403112E GIBUX 330500N 0411100E RAPLU 332300N 0414530E GEPAP 334906N 0422851E MUTAG 343003N 0433834E DAVAS 351724N 0451235E
R654	MAGRI 385408N 0462300E DARUN 383339N 0464235E GODNA 382033N 0465457E BUDED 375313N 0472032E DAMOS 372619N 0474521E ZANJAN (ZAJ) 364646.8N 0482111.9E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	TULGU 362836N 0484235E
	SAVEH (SAV) 350106.8N 0502216.9E
	EGVEL 344258N 0503005E
	PEKAM 332904N 0510118E
	ESFAHAN (ISN) 334449.1N 0514940.8E
	LADAL 322226N 0525543E
	TOVTA 320528N 0534421E
	YAZD (YZD) 315351.6N 0541657.7E
	BOMUN 313648N 0544555E
	UKVEV 310557N 0553718E
	ALMOB 303434N 0562824E
	KERMAN (KER) 301658.1N 0565632.3E
	ALKUL 295152N 0571535E
	PEDUK 285920N 0575447E
	NABOX 281630N 0582601E
	LADPA 265331N 0592514E
	DUGLI 264014N 0593431E
	NAGES 262451N 0594514E
	EGPER 255210N 0600737E
	CHAH BAHAR (CBH) 252641.9N 0602451.7E
	EGPIC 250811N 0603730E
	DENDA 244224N 0605451E
R655	(KOBAR 344437N 0340624E)
	BALMA 342856.30N 0350302.30E
	CHEKA (CAK) 341801.81N 0354159.64E
	CEDAR 341713.20N 0360004.30E
	LEBOR 341556N 0363514E
	KARIATAIN (KTN) 341248N 0371551E
R659	TEHRAN (TRN) 354149.1N 0511701.6E
	*Note 7 (ISN-TRN)
	BOXAM 343749N 0515147E
	VAVIN 341709N 0520247E
	DAPOG 333744N 0522331E
	*Note 3 (DAPOG-SYZ)
	ESFAHAN (ISN) 324449.1N 0514940.8E
	GIDEN 320039N 0520026E
	GESIP 314556N 0520359E
	KAVOT 304111N 0521922E
	SHIRAZ (SYZ) 293224.6N 0523519.6E
	LAGSA 283306N 0522056E
	KATAG 282346N 0521841E
	*Note 7 (KATAG- EMISA)
	DURSI 271219N 0520144E
	KAVAM 265737N 0515818E
	MIDSI 264142N 0515442E
	*Note 8 (MIDSI-DOH)
	SOGAN 263915N 0515408E
	ROSAN 263129N 0515220E
	BOPOV 262430N 0515043E
	RABLA 261506N 0514834E
	VEDED 260558N 0514628E
	VELAM 255426N 0514347E
	EMISA 254658N 0514207E
	DOHA/HAMAD (DOH) 251459.66N 0513634.80E
R660	(ERZURUM (ERZ) 395724N 0411225.70E)
	DASIS 385435N 0441230E
	BORES 382829N 0452137E
	VUVAG 382529N 0452926E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	TABRIZ (TBZ) 380853.5N 0461246.6E
	RAKED 375621N 0470712E
	BUDED 375313N 0472032E
	RALGO 372840N 0490112E
	RASHT (RST) 371934.8N 0493657.1E
	DEDLA 365620N 0500044E
	NABAX 360955N 0504816E
	TEHRAN (TRN) 354149N 0511702E
R661	DULAV 385700N 0453800E
	RABDI 384804N 0454431E
	SIBVU 384444N 0454657E
	TABRIZ (TBZ) 380853.5N 0461246.6E
	RUDAD 374045N 0465741E
	ZANJAN (ZAJ) 364646.8N 0482111.9E
	SUTBU 363324N 0484732
	MIVAK 355915N 0495324E
	RUDESHUR (RUS) 352643.7N 0505419.3E
	IMAM KHOMAINI (IKA) 352434.8N 0511042.5E
	VARAMIN (VR) 352033.6N 0513813.8E
	DEHNAMAK (DHN) 351515N 0524312E
R674	SABEL 185158N 0520339E
	LOTEL 180926N 0514103E
	PASUL 180341N 0513803E
	GOGRI 170752N 0510857E
	OBTAS 164633N 0505756E
	RARBA 161021N 0503920E
	UKORA 152407N 0501547E
	NAKAD 150056N 0500402E
	DANAN 144010N 0495334E
	XABIL 142924N 0494809E
	EMABI 141627N 0494139E
	PAXED 135027N 0492759E
	DEMGO 120258N 0483040E
R775	DEDLI 224232N 0373719E
	DASPA 230121N 0370841E
	SEDVA 235813N 0354006E
	ELELI 251854N 0332934E
	LUXOR (LXR) 254458N 0324607E
R777	DANAK 160800N 0412900E
	LAKNA 160000N 0420000E
	GOBLO 154050N 0432550E
	IMKAR 153511N 0435039E
	SANAA (SAA) 152959.60N 0441310.60E
	PAVEN 144602N 0441112E
	EGNOL 140745N 0440929E
	TAIZ (TAZ) 134150N 0440819E
	ARABO 123852N 0440401E
	TORBA 121036N 0440206E
R784	KUSEN 251828.0N 0562340.0E
	*Note 7 (ORSAR-KUSEN)
	EMOPI 252620.0N 0560900.0E
	ALSIL 252911.1N 0554639.4E
	TOVIV 253302N 0551942E
	ALRAR 254058.2N 0550149.4E
	GONVI 254239.8N 0545630.5E
	TATLA 254753N 0544008E

LOWER/UPPER AIRSPACE	
Designator	Significant Points
1	2
	EMOTA 255254N 0542414E
	GIBIB 255507N 0541712E
	ORSAR 260430N 0535730E
	LEVNA 261535N 0533857E
	EGMIT 263340N 0530825E
	*Note 8 (OM)
	PEGET 270434N 0521515E
	DURSI 271219N 0520144E
	IMDAT 274100N 0511100E
	ALNIN 283306N 0501036E
	NANPI 290457N 0493157E
	*Note 7 (SIDAD-NANPI)
	DESLU 292800N 0490150E
	SIDAD 295231N 0482944E
R785	TURAI (TRF) 314146N 0384408.10
	RASLI 315424N 0383648E
	KAREM 325110.40N 0380324.38E
	ZELAF 325700N 0380000E
	ABBAS 332610N 0374320E
	BASEM 333352N 0373938E
	KARIATAIN (KTN) 341248N 0371551E
	BRAVO 344118N 0363500E
	BANIAS (BAN) 351362N 0355729E
	DELTA 351228N 0354916E
	NIKAS 351136N 0354300E
R794	ULDUS 380000N 0510100E
	ULEXI 374344N 0510631E
	NOSHHR (NSR) 363946.1N 0512751.4E
	DEHNAMAK (DHN) 3515145N 0524312E
R799	IMPOS 1831367N 0511848 E
	PASUL 180341N 0513803E
	TONRO 165850N 0522235E
	ASMAK 162327N 0524634E
	ENADO 153333N 0532015E

TABLE ATM II-MID-2 – MID SSR CODE ALLOCATION LIST

Code	AMMAN	BAGHDAD	BAHRAIN	BEIRUT	CAIRO	DAMASCUS	EMIRATES	JEDDAH	KHARTOUM	KUWAIT	MUSCAT	SANAA	TEHRAN	TRIPOLI
0001-0077 ²														
0101-0177 ¹									F					
0200-0277 ¹								D						
0300-0377 ²														
0400-0477 ²	D						D							
0500-0577 ¹							T							
0600-0677 ¹					D		D			D				
0700-0777 ¹	T													
1001-1077 ¹		T												
1101-1177 ¹	D						D						D	
1200-1277 ¹			D						D					
1300-1377 ¹		D					D							D
1400-1477 ¹										T				
1500-1577 ¹													D	
1600-1677 ¹					T									
1700-1777 ¹							T							
2001-2077 ³														T
2100-2177 ¹			D											
2200-2277 ¹			T											
2300-2377 ¹					D									
2400-2477 ¹	D													
2500-2577 ¹				D				D						
2600-2677 ¹			T											
2700-2777 ¹			D		D									
3000-3077 ¹						D		D						
3100-3177 ¹								T						
3200-3277 ¹			T											
3300-3377 ¹					T									
3400-3477 ¹							T							
3500-3577 ¹								D						
3600-3677 ¹													T	
3700-3777 ¹										D		D		
4000-4077 ¹											T			
4100-4177 ¹								D					D	
4200-4277 ¹								T						
4300-4377 ¹				T										
4400-4477 ¹			T											
4500-4577 ¹								T						
4600-4677 ¹									D		D			
4700-4777 ¹											T			

Code	AMMAN	BAGHDAD	BAHRAIN	BEIRUT	CAIRO	DAMASCUS	EMIRATES	JEDDAH	KHARTOUM	KUWAIT	MUSCAT	SANA'A	TEHRAN	TRIPOLI
5000-5077 ¹								D						
5100-5177 ¹													T	
5200-5277 ¹								T						
5300-5377 ³														
5400-5477 ¹													T	
5500-5577 ³														
5600-5677 ¹								D					D	
5700-5777 ¹						T								
6000-6077 ¹							D		D					
6100-6177 ¹							D					D		
6200-6277 ¹							T							
6300-6377 ¹								D					D	
6400-6477 ³														
6500-6577 ¹											D			
6600-6677 ¹											D			
6700-6777 ²														
7001-7077 ¹													T	
7100-7177 ²														
7200-7277 ¹		T												
7300-7377 ¹					T									
7400-7477 ¹		D												
7501-7577 ²														
7613-7677 ²														
7701-7775 ²														

T: codes allocated for Transit use

D: codes allocated for Domestic use

¹ Series allocated to the MID Region and Assigned to MID States

² MID Region SSR Reserve List for Domestic use

³ MID Region SSR Reserve List for Transit use

MID ANP, VOLUME II
PART V – METEOROLOGY (MET)

1. INTRODUCTION

1.1 This part of the MID ANP, Volume II, complements the provisions in the ICAO SARPs and PANS related to aeronautical meteorology (MET). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of MET facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the MET facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the States concerned to implement the requirements specified.

2. GENERAL REGIONAL REQUIREMENTS

Meteorological offices

2.1 In the MID Region, meteorological watch offices (MWO) have been designated to maintain continuous watch on meteorological conditions affecting flight operations within their area(s) of responsibility, as indicated at **Table MET II-1**.

Meteorological observations and reports

2.2 In the MID Region, routine observations, issued as a METAR, should be made throughout the 24 hours of each day at intervals of one hour or, for RS and AS designated aerodromes¹, at intervals of one half-hour at aerodromes as indicated in **Table MET II-2**. For aerodromes included on the VHF VOLMET broadcast as indicated in **Table MET II-3**, routine observations, issued as METAR, should be made throughout the 24 hours of each day.

2.3 At aerodromes that are not operational throughout 24 hours, METAR should be issued at least 3 hours prior to the aerodrome resuming operations in the MID Region.

Forecasts

2.4 In the MID Region, an aerodrome forecast, issued as a TAF, should be for the aerodromes indicated in **Table MET II-2**.

2.5 In the MID Region, the period of validity of a routine TAF should be of 9-, 24-, or 30-hours to meet the requirements indicated in **Table MET II-2**.

2.6 In the MID Region, the forecast maximum and minimum temperatures expected to occur during the period of validity, together with their corresponding day and time of occurrence, should be included in TAF at aerodromes indicated in **Table MET II-2**.

¹ Refer to Table AOP II-1

2.7 In the MID Region, landing forecasts (prepared in the form of a trend forecast) should be provided at aerodromes indicated in **Table MET II-2**.

Requirements for and use of communications

2.8 Operational meteorological information prepared as METAR, SPECI and TAF for aerodromes indicated in **Table MET II-2**, and SIGMET messages prepared for flight information regions or control areas indicated in **Table MET II-1**, should be disseminated to the international OPMET databanks designated for the MID Region (namely Jeddah and Bahrain (backup) Regional OPMET Centres) and to the centre designated for the operation of the aeronautical fixed service satellite distribution system (SADIS) and the Internet-based service (Secure SADIS FTP) and/or WIFS in the MID Region.

2.9 SIGMET messages should be disseminated to other meteorological offices in the MID Region.

2.10 Special air-reports that do not warrant the issuance of a SIGMET should be disseminated to other meteorological offices in the MID Region.

2.11 In the MID Region, meteorological information for use by aircraft in flight should be supplied through VOLMET broadcasts.

2.12 In the MID Region, the aerodromes for which METAR and SPECI are to be included in VOLMET broadcasts, the sequence in which they are to be transmitted and the broadcast time, is indicated in **Table MET II-3**.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 In the MID Region, operational meteorological information during the Pilgrimage Season should be issued as indicated in **Table II-MID-1**.

TABLE MET II-1 - METEOROLOGICAL WATCH OFFICES

EXPLANATION OF THE TABLE

Column

- 1 Name of the State where meteorological service is required
- 2 Name of the flight information region (FIR) or control area (CTA) where meteorological service is required
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.
- 3 ICAO location indicator of the FIR or CTA
- 4 Name of the meteorological watch office (MWO) responsible for the provision of meteorological service for the FIR or CTA
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.
- 5 ICAO location indicator of the responsible MWO
- 6 Requirement for SIGMET information (excluding for volcanic ash and for tropical cyclones) to be provided by the MWO for the FIR or CTA concerned, where:
Y – Yes, required
N – No, not required
- 7 Requirement for SIGMET information for volcanic ash to be provided by the MWO for the FIR or CTA concerned, where:
Y – Yes, required
N – No, not required
- 8 Requirement for SIGMET information for tropical cyclone to be provided by the MWO for the FIR or CTA concerned, where:
Y – Yes, required
N – No, not required
- 9 Requirement for AIRMET information to be provided by the MWO for the FIR or CTA concerned, where
Y – Yes, required
N – No, not required

State	FIR or CTA Where Meteorological Service is Required		Responsible Meteorological Watch Office		Meteorological Service To Be Provided			
	Name	ICAO Location Indicator	Name	ICAO Location Indicator	SIGMET (WS)	SIGMET (WV)	SIGMET (WC)	AIRMET (WA)
1	2	3	4	5	6	7	8	9
BAHRAIN	BAHRAIN FIR	OBBB	BAHRAIN INTL	OBBI	Y	Y	Y	
EGYPT	CAIRO FIR	HECC	CAIRO INTL	HECA	Y	Y		Y
IRAN (ISLAMIC REPUBLIC OF)	TEHRAN FIR	OIIX	TEHRAN/ MEHRABAD INTL	OIII	Y	Y	Y	
IRAQ	BAGHDAD FIR	ORBB	BAGHDAD INTL	ORBI	Y	Y		
JORDAN	AMMAN FIR	OJAC	AMMAN/QUEEN ALIA	OJAI	Y	Y		
KUWAIT	KUWAIT FIR	OKAC	KUWAIT INTL	OKBK	Y	Y	Y	
LEBANON	BEIRUT FIR	OLBB	BEIRUT/BEIRUT INTL	OLBA	Y	Y		
LIBYA	TRIPOLI FIR	HLLL*	TRIPOLI/TRIPOLI INTL	HLLT	Y	Y		
OMAN	MUSCAT FIR	OOMM	MUSCAT/MUSCAT INTL	OOMS	Y	Y	Y	
SAUDI ARABIA	JEDDAH FIR	OEJD	JEDDAH/KING ABDULAZIZ INTL	OEJN	Y	Y	Y	
SUDAN	KHARTOUM FIR	HSSS	KHARTOUM	HSSS	Y	Y		
SYRAIN ARAB REPUBLIC	DAMASCUS FIR	OSDI	DAMASCUS INTL	OSDI	Y	Y		
UNITED ARAB EMIRATES	EMIRATES FIR	OMAE	ABU DHABI INTL	OMAA	Y	Y	Y	
YEMEN	SANAA' FIR	OYSN	SANAA' INTL	OYSN	Y	Y	Y	

TABLE MET II-2 - AERODROME METEOROLOGICAL OFFICES

EXPLANATION OF THE TABLE

Column

- 1 Name of the State where meteorological service is required
- 2 Name of the AOP aerodrome where meteorological service is required
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.
- 3 ICAO location indicator of the AOP aerodrome
- 4 Designation of AOP aerodrome:
 RG - international general aviation, regular use
 RS - international scheduled air transport, regular use
 RNS - international non-scheduled air transport, regular use
 AS - international scheduled air transport, alternate use
 ANS - international non-scheduled air transport, alternate use
- 5 Name of the aerodrome meteorological office responsible for the provision of meteorological service
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.
- 6 ICAO location indicator of the responsible aerodrome meteorological office
- 7 Requirement for METAR/SPECI from the aerodrome concerned, where:
 Y – Yes, required
 N – No, not required
- 8 Requirement for information on the state of the runway provided by the appropriate airport authority to be included as supplementary information in METAR/SPECI from the aerodrome concerned, where:
 Y – Yes, required
 N – No, not required
- 9 Requirement for trend forecast to be appended to METAR/SPECI from the aerodrome concerned, where
 Y – Yes, required
 N – No, not required
- 10 Requirement for TAF from the aerodrome concerned, where
 C - Requirement for 9-hour validity aerodrome forecasts in TAF code (9H)
 T - Requirement for 18/24-hour validity aerodrome forecasts in TAF code (18/24H)
 X - Requirement for 30-hour validity aerodrome forecasts in TAF code (30H)
 N – No, not required
- 11 Requirement for maximum and minimum temperature (expected to occur during the period of validity of the TAF) to be included in TAF from the aerodrome concerned, where:
 Y – Yes, required
 N – No, not required
- 12 Availability of METAR/SPECI and TAF from the aerodrome concerned, where:
 F – Full availability : OPMET information as listed issued for the aerodrome all through the 24-hour period
 P – Partial availability: OPMET information as listed not issued for the aerodrome for the entire 24-hour period

State	AOP Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability	
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn		
1	2	3	4	5	6	7	8	9	10	11	12	
BAHRAIN	BAHRAIN INTL	OBBI	RS	BAHRAIN INT'L	OBBI	Y	N	Y	X	N	F	
EGYPT	ALEXANDRIA/B ORG EL-ARAB INTL	HEBA	RS	CAIRO INTL	HECA	Y		Y	X		F	
	ASWAN INTL	HESN	RS	CAIRO INTL	HECA	Y		Y	X		F	
	CAIRO INTL	HECA	RS	CAIRO INTL	HECA	Y		Y	X		F	
	HURGHADA INTL	HEGN	RS	CAIRO INTL	HECA	Y		Y	X		F	
	LUXOR INTL	HELX	RS	CAIRO INTL	HECA	Y		Y	X		F	
	MARSA ALAM INTL	HEMA	RS	CAIRO INTL	HECA	Y		Y	X		F	
	SHARM EL SHEIKH INTL	HESH	RS	CAIRO INTL	HECA	Y		Y	X		F	
IRAN (ISLAMIC REPUBLIC OF)	BANDAR ABBASS INTL	OIKB	RS	TEHRAN/ MEHRABAD INTL	OIII	Y			T		F	
	ESFAHAN / SHAHID BEHESHTI INTL	OIFM	RS	TEHRAN/ MEHRABAD INTL	OIII	Y			X		F	
	MASHHAD/ SHAHID HASHEMI NEJAD INTL	OIMM	RS	TEHRAN/ MEHRABAD INTL	OIII	Y			T		F	
	SHIRAZ/ SHAHID DASTGHAIB INTL	OISS	RS	SHIRAZ/ SHAHID DASTGHAIB INTL	OISS	Y		Y	X		F	
	TABRIZ INTL	OITT	RNS	TABRIZ/ INTL	OITT	Y			X		F	
	TEHRAN/ IMAM KHOMAINI INTL	OIEE	RS	TEHRAN/ MEHRABAD INTL	OIII	Y		Y	X		F	
	TEHRAN/ MEHRABAD INTL	OIII	RS	TEHRAN/ MEHRABAD INTL	OIII	Y		Y	T		F	
	YAZD/SHAHID SADOOGHI	OIYY	RS			Y						F

State	AOP Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	
1	2	3	4	5	6	7	8	9	10	11	12
	INTL*										
	ZAHEDAN INTL	OIZH	RS	TEHRAN/ MEHRABAD INTL	OIII	Y			T		F
IRAQ	AL NAJAF	ORNI	RNS			Y			T		F
	BAGHDAD INTL	ORBI	RS	BAGHDAD INTL	ORBI	Y		Y	T		F
	BASRAH INTL	ORMM	RS	BAGHDAD INTL	ORBI	Y		Y	T		F
	ERBIL INTL	ORER	RS			Y			T		F
	MOSUL INTL	ORBM	RS	BAGHDAD INTL	ORBI			Y	T		F
	SULAYMANIYAH INTL	ORSU	RS			Y			T		F
JORDAN	AMMAN/ MARKA	OJAM	AS	AMMAN/ MARKA	OJAM	Y		Y	T		F
	AMMAN/ QUEEN ALIA	OJAI	RS	AMMAN/ MARKA	OJAM	Y		Y	X		F
	AQABA/ KING HUSSEIN	OJAQ	RNS	AMMAN/ MARKA	OJAM	Y					F
KUWAIT	KUWAIT INTL	OKBK	RS	KUWAIT/ INTL	OKBK	Y		Y	X		F
LEBANON	BEIRUT/ BEIRUT INTL	OLBA	RS	BEIRUT/ BEIRUT INTL	OLBA	Y		Y	X		F
LIBYA	BENGHAZI / BENINA INTL	HLLB	RS	BENGHAZI / BENINA INTL	HLLB	Y		Y	T		F
	SEBHA / SEBHA INTL	HLLS	RS	BENGHAZI / BENINA INTL	HLLB	Y					F
	TRIPOLI / TRIPOLI INTL	HLLT	RS	TRIPOLI / TRIPOLI INTL	HLLT	Y		Y	T		F
OMAN	MUSCAT/ MUSCAT INTL.	OOMS	RS	MUSCAT/ MUSCAT INTL.	OOMS	Y		Y	X		F
	SALALAH	OOSA	AS	SALALAH	OOSA	Y			X		F
QATAR	DOHA INTL	OTBD	RS	DOHA INTL	OTBD	Y		Y	T		F
	HAMAD INTL	OTHH	RS	DOHA	OTBD			Y	X		F

State	AOP Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature T _v /T _h	
1	2	3	4	5	6	7	8	9	10	11	12
	INTL										
SAUDI ARABIA	DAMMAM/ KING FAHD INTL	OEDF	RS			Y			X		F
	JEDDAH/ KING ABDULAZIZ INTL	OEJN	RS	JEDDAH/ KING ABDULAZIZ INTL	OEJN	Y		Y	X		F
	MADINAH/ PRINCE MOHAMMAD BIN ABDULAZIZ INTL	OEMA	RS	JEDDAH/ KING ABDULAZIZ INTL	OEJN	Y		Y	T		F
	RIYADH/ KING KHALED INTL	OERK	RS	JEDDAH/ KING ABDULAZIZ INTL	OEJN	Y		Y	X		F
SOUTH SUDAN	JUBA	HSSJ	RS	KHARTOUM	HSSS	Y	Y				F
SUDAN	EL OBEID/EL OBEID	HSOB	AS			Y					F
	KHARTOUM	HSSS	RS	KHARTOUM	HSSS	Y		Y	X		F
	NYALA/NYALA	HSNN	AS			Y					F
	PORT SUDAN	HSPN	RS	WADI HALFA	HSSW	Y			X		F
SYRIAN ARAB REPUBLIC	ALEPPO INTL	OSAP	RS	DAMASCUS INTL	OSDI	Y			T		F
	BASSEL AL-ASSAD INTL	OSLK	RS	DAMASCUS INTL	OSDI	Y			T		F
	LATTAKIA DAMASCUS INTL	OSDI	RS	DAMASCUS INTL	OSDI	Y		Y	X		F
UNITED ARAB EMIRATES	ABU DHABI INTL	OMAA	RS	ABU DHABI INTL	OMAA	Y		Y	X		F
	AL AIN INTL	OMAL	RS	ABU DHABI INTL	OMAA	Y		Y	X		F
	ABU DHABI/ AL BATEEN EXECUTIVE	OMAD	RS	ABU DHABI INTL	OMAA	Y		Y	X		F

State	AOP Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	
1	2	3	4	5	6	7	8	9	10	11	12
	DUBAI INTL	OMDB	RS	DUBAI INTL	OMDB	Y		Y	X		F
	DUBAI/ AL MAKTOUM INTL	OMDW	RS	DUBAI INTL	OMDB	Y		Y	X		F
	FUJAIRAH INTL	OMFJ	RS	DUBAI INTL	OMDB	Y			X		F
	RAS AL KHAIMAH INTL	OMRK	RS	DUBAI INTL	OMDB	Y			X		F
	SHARJAH INTL	OMSJ	RS	DUBAI INTL	OMDB	Y			X		F
YEMEN	ADEN INTL	OYAA	RS	SANAA/ INTL	OYSN	Y		Y	X		F
	HODEIDAH INTL	OYHD	RS	SANAA/ INTL	OYSN	Y			T		F
	MUKALLA INTL	OYRN	RS	SANAA/ INTL	OYSN	Y			T		F
	SANAA INTL	OYSN	RS	SANAA/ INTL	OYSN	Y			T		F
	TAIZ INTL	OYTZ	RS	SANAA/ INTL	OYSN	Y			T		F

TABLE MET II-3 – VOLMET BROADCASTS**EXPLANATION OF THE TABLE**

The transmitting station appears at the top of each block.

Names in lower case letters indicate aerodromes for which reports (routine or selected special) are required.

Names in upper-case letters indicate aerodromes for which forecasts are required.

Istanbul 25B30 55B60	Shiraz 20B25 50B55	Tehran 15B20 45B50
Istanbul Ankara Athinai Thessaloniki Roma Tehran ISTANBUL	Tehran Shiraz Isfahan Kuwait Bandar Abbass Bahrain Muscat Dubai SHIRAZ	Tehran Shiraz Mashhad Karachi Ashgabat Baku Yerevan Tashkent TEHRAN

**TABLE MET II-MID-1 - EXCHANGE OF OPERATIONAL METEOROLOGICAL
INFORMATION DURING THE PILGRIMAGE SEASON**

EXPLANATION OF THE TABLE

Column

- 1 Name of the State in which the operational meteorological information should be available.
- 2 Location from which, or related to which, the operational meteorological information refers.
- 3 TF – Aerodrome forecasts X: Seasonal requirement
- 4 RF – Route forecasts

To be available in	From or related to	Information required	
		TF	RF
1	2	3	4
LIBYA	DHAHRAN	X	
	MADINAH	X	
	RIYADH	X	
	ALGER (Route CASABLANCA- TRIPOLI)		X
	CAIRO (Route TRIPOLI-JEDDAH)		X
SAUDI ARABIA	ABIDJAN	X	
	ACCRA	X	
	AKTYUBINSK	X	
	ALGER (Route CASABLANCA- TRIPOLI)		X
	ALMATY	X	
	ASKHABAT	X	
	BAMAKO	X	
	BANGUI	X	
	BRAZZAVILLE		X
	CAIRO (Route TRIPOLI-JEDDAH)	X	
	CONAKRY	X	
	COTONOU	X	
	DAKAR	X	
	DOUALA	X	
	DUSHANBE		X
	KHARTOUM (Route KHARTOUM- GENEINA)	X	
	KYIV	X	
	NOUADHIBOU	X	
	OUAGADOUGOU	X	
	SAL ISLAND	X	
	SAMARKAND	X	
	TASHKENT		
SUDAN	BAMAKO	X	
	CONAKRY	X	

To be available in	From or related to	Information required	
		TF	RF
1	2	3	4
	DAKAR	X	
	NOUADHIBOU	X	
	OUAGADOUGOU	X	
	SAL ISLAND	X	
	JEDDAH (Route		X
	JEDDAH-		
	KHARTOUM)		

MID ANP, VOLUME II

PART VI - SEARCH AND RESCUE (SAR)

1. INTRODUCTION

1.1 This part of the MID ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to search and rescue (SAR). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of SAR facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the SAR facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 The Rescue Coordination Centres (RCCs) and Rescue Sub-Centres (RSCs) for the MID Region are listed in **Table SAR II-1** and depicted in **Chart SAR I-1**.

2.2 In cases where the minimum SAR facilities are temporarily unavailable, alternative suitable means should be made available.

2.3 In cases where a SAR alert is proximate to a Search and Rescue Region (SRR) boundary (e.g. 50 NM or less), or it is unclear if the alert corresponds to a position entirely contained within an SRR, the adjacent RCC or RSC should be notified of the alert immediately.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1. The contact details for the SAR Point of Contact (SPOC) – COSPAS-SARSAT in the MID Region are at **Table SAR II-MID-1**

TABLE SAR II-1 - RESCUE COORDINATION CENTRES (RCCs) AND RESCUE SUB CENTRES (RSCs) IN THE MID REGION

EXPLANATION OF THE TABLE

Column

- 1 State
- 2 Name of the Rescue Coordination Centre (RCC) and Rescue Sub-centre (RSC).
- 3 SAR points of contact (SPOC). Name of the SPOC.
- 4 Remarks. Supplementary information such as the type of RCC (e.g. maritime or aviation or joint).

RCC and Rescue Units		SPOC	Remarks
1	2	3	4
BAHRAIN			
RCC	BAHRAIN RCC	RCC ATC Bahrain	
RSC	Qatar	DJRCC	
EGYPT			
RCC	CAIRO RCC	SAR Centre	
RSC	Alexandria		
	El Ariesh		
	Hurghada		
	Luxor		
	M. Matruh		
Ras-Banas			
IRAN			
RCC	TEHRAN RCC	RCC Tehran	
RSC	Bandar Abbass		
	Busherhr		
	Esfahan		
	Kerman		
	Kermanshah		
	Mashhad		
	Tabriz		
Zahedan			
IRAQ			
RCC	BAGHDAD RCC	CENTAF-AUAB CAOC JSRC	
RSC	Kirkuk		
	Shaibah		
	Basrah		
JORDAN			
RCC	AMMAN RCC	RCC ATC Amman	
RSC	-		

RCC and Rescue Units		SPOC	Remarks
1	2	3	4
KUWAIT			
RCC	KUWAIT RCC	RCC ATC Kuwait	
RSC	-		
LEBANON			
RCC	BEIRUT RCC	RCC Beirut	
RSC	Tripoli		
LIBYA			
RCC	TRIPOLI RCC	CAA	
RSC	Marsa Brega		
	Sirte		
	Tobruk		
OMAN			
RCC	MUSCAT RCC	RCC Muscat Air Force	
RSC	Salalah		
SAUDI ARABIA			
RCC	JEDDAH RCC	SAMCC	
RSC	Dammam		
SUDAN			
RCC	KHARTOUM RCC	ACC Khartoum	
RSC	El Obeid		
	Juba		
	Port Sudan		
SYRIA			
RCC	DAMASCUS RCC	RCC ATC	
RSC	Damascus		
	Latakia		
UAE			
RCC	ABU DHABI RCC	AEMCC	
RSC	Abu Dhabi		
	Dubai		
YEMEN			
RCC	SANA'A RCC	RCC Sanaa	
RSC	Aden		
	Hodeidah		
	Riyan		

TABLE SAR II-MID-1 - MID REGION SAR POINT OF CONTACT (SPOC) – COSPAS-SARSAT

STATE	SPOC NAME	ADDRESS	EMAIL	TEL	FAX	AFTN	ASS. MCC/ STATE ²	LAST REVISION	REMARK
Bahrain	RCC ATC Bahrain	Bahrain CAA, Air Navigation Directorate P.O. Box 586 Kingdom of Bahrain	Bahatc@caa.gov.bh	(973) 17321081 17321080	(973) 17321905	OBBISARX	SAMCC Saudi Arabia	16-April-2013	
Egypt	SAR Centre	SAR Centre Almaza Air Base Heliopolis, Cairo, Egypt	jrccl36@afmic.gov.eg mmc@saregypt.net nahedh@tra.gov.eg	(202) 24184537 24184531	(202) 24184537 24184531	HECCYCYX	ALMCC Algeria	22-OCT-2013	TELEX: (91) 21095 RCCC RUN
Iran	RCC Tehran	Civil Aviation Organization SAR Coordination Centre Mehrabad Airport Tehran, Iran	SAR@cao.ir IRAN-SAR@airport.ir rcc.IRAN@airport.ir	(9821) 44544107 44544116 44544060	(9821) 44544117 44544106	OIIIZRZX	TRMCC Turkey	1-Jan-2013	
Iraq	RCC ATC Baghdad'	Baghdad ACC, Baghdad International Airport	atc_iraqcaa@yahoo.com	(964) 7901654653	(974) 15430764		TRMCC Turkey	18-Mar.-2015	
Jordan	RCC ATC Amman	RCC Civil Aviation Authority Amman Airport, Jordan		(9626) 4451672	(9626) 4451667	OJACZQZX	SAMCC Saudi Arabia	16-Apr-2013	
Kuwait	RCC ATC Kuwait	RCC DGCA Kuwait International Airport, P.O.Box 17, Kuwait		(965) 24760463 24762994	(965) 24346515 24346221	OKBKZQZX OKBKNSAR	SAMCC Saudi Arabia	16-Apr-2013	
Lebanon	RCC Beirut	RCC, DGCA Lebanon, Hariri Int'l Airport- Beirut, Lebanon		(961) 1628161	(961) 1628186 1629035	OLBIZQZX	SAMCC Saudi Arabia	16-Apr-2013	
Libya	CAA	CAA, Tripoli Int'l Airport, Libya	info@sar.caa.ly	(218.21) 5632332 4446799 3606868	(218.21) 563 0257 360 6868	HLLTYCYX	ALMCC Algeria	16-May-2013	TELEX (218.21) 5632332

² Associated COSPAS-SARSAT Mission Control Center / State where it is located

STATE	SPOC NAME	ADDRESS	EMAIL	TEL	FAX	AFTN	ASS. MCC/ STATE ²	LAST REVISION	REMARK
Oman	RCC Muscat Air Force	RCC, HQ RAFO P.O.Box 730 Central Post Office Muscat Int'l Airport, Oman		(968) 24519209 24519332	(968) 24334776 24338692	OOMSYAYX	SAMCC Saudi Arabia	16-Apr-2013	
Qatar	DJRCC	P.O. Box 37 Doha, Qatar	qatsar@yahoo.com	(974) 44980384		OTBDZTZX	SAMCC Saudi Arabia	02-Apr-2015	
Saudi Arabia*	SAMCC	KSA.GACA / Air Navigation services P.O.Box 929 Jeddah 21421 Saudi Arabia	samcc@gaca.gov.sa	(96612) 6150170 6855812 (96650) 4601445	(96612) 6150171 6402855	OEJNJSAR	SAMCC Saudi Arabia	28-Jun-2013	TEL 3 & FAX 2 for Head of SAMCC
Sudan	ACC Khartoum	Khartoum Airport, Sudan		(249.183) 788192 784925	(249.183) 528323	HSSSYCYX	ITMCC Italy	16-Apr-2013	Thuraya +8821655524 296
Syria	RCC ATC	General Civil Aviation Authority		(963.11) 5400540	(963.11) 5400312	OSDIZQZX	SAMCC Saudi Arabia	16-Apr-2013	
UAE*	AEMCC	SAR Coordination Center P.O.Box 906 GHQ Armed Forces UAE	aemcc@uae-jrcc.ae	(971.2) 4056144 4496866	(971.2) 4496844	OMADYCYX	AEMCC UAE	23-Sep-2011	
Yemen	RCC Sanaa	RCC Department of Civil Aviation Sanaa, Yemen		(967) 1344673	(967) 1345916	OYSNYCYX	SAMCC Saudi Arabia	16-April-2013	

* Associated COSPAS-SARSAT Mission Control Centre/State where it is located

CHART SAR II-1
RESCUE COORDINATION CENTRES (RCCS) AND RESCUE SUB-CENTRES (RSCS) FOR THE MID REGION

TBD

MID ANP, VOLUME II

PART VII - AERONAUTICAL INFORMATION MANAGEMENT (AIM)

1. INTRODUCTION

1.1 This part of the MID ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to AIS/ AIM and aeronautical charts (MAP). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of AIS/ AIM facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the AIS/ AIM facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 The responsibility for the provision of AIS/ AIM facilities and services in the MID Region, is reflected in the **Table AIM II-1**, which shows the list of designated international NOTAM Office (NOF), designated State for AIP production, designated State for aeronautical charts (MAP) production, designated State for the provision of the authoritative Integrated Aeronautical Information Database (IAID) and designated State for the provision of the pre-flight information services.

2.2 States should designate and implement an authoritative Integrated Aeronautical Information Database (IAID) where data sets are integrated and used to produce current and future AIS/ AIM products and services, which is a fundamental step in the transition to AIM. The designation of authoritative databases should be clearly stated in the Aeronautical Information Package AIP.

2.3 The national plans for the transition from AIS to AIM identifying clearly the timelines for the implementation of the different elements of the ICAO Roadmap for the transition from AIS to AIM should be submitted by States to the ICAO MID Regional Office. States should also inform the ICAO MID Regional Office of any update.

2.4 States should take necessary measures to ensure that aeronautical information and data they provide meet the regulatory Aeronautical Data quality requirements.

2.5 The Quality Management System (QMS) in AIS/ AIM should define procedures to meet the safety and security objectives associated with the management of aeronautical data and information.

2.6 Recognizing the need to maintain or enhance existing safety levels of operations, States should ensure that any change to the existing systems or the introduction of new systems used for processing aeronautical data and/ or information are preceded by a safety assessment.

2.7 Technical services responsible for origination of the raw aeronautical information should be acquainted with the requirements for promulgation and advance notification of changes that are operationally significant as established in Annexes 11 and 14 and other relevant ICAO documentation. They should take due account of the time needed by AIS/ AIM for the preparation, production and issue of the relevant material, including the compliance with the AIRAC procedures.

2.8 AIS/ AIM personnel should be involved in the air navigation planning processes. This should ensure the timely preparation of appropriate AIS documentation and that the effective dates for changes to the air navigation system and procedures are satisfied.

2.9 States should produce relevant aeronautical charts required for civil air operations employing

visual air navigation independently or in support of other forms of air navigation. The production responsibility for sheets of the World Aeronautical Chart (WAC) — ICAO 1: 1 000 000 or Aeronautical Chart — ICAO 1: 500 000 (*as an alternative to the World Aeronautical Chart — ICAO 1:1 000 000*) is set out in **Table AIM II-2**.

3. SPECIFIC REGIONAL REQUIREMENTS

None.

TABLE AIM II-1 - RESPONSIBILITY FOR THE PROVISION OF AIS/ AIM FACILITIES AND SERVICES IN THE MID REGION

EXPLANATION OF THE TABLE

Column:

- 1 Name of the State or territory
- 2 Designated international NOTAM Office (NOF)
- 3 Designated State for AIP production
- 4 Designated State for aeronautical charts (MAP) production
- 5 Designated State for the provision of the authoritative Integrated Aeronautical Information Database (IAID)
- 6 Designated State for the provision of pre-flight information services
- 7 Remarks — additional information, as appropriate.

State	NOF	AIP	MAP	IAID	Pre-flight briefing	Remarks
1	2	3	4	5	6	7
BAHRAIN	BAHRAIN*	BAHRAIN	BAHRAIN	BAHRAIN	BAHRAIN	
EGYPT	CAIRO	EGYPT	EGYPT	EGYPT	EGYPT	
IRAN, ISLAMIC REPUBLIC OF	TEHRAN	IRAN	IRAN	IRAN	IRAN	
IRAQ	BAGHDAD	IRAQ	IRAQ	IRAQ	IRAQ	
JORDAN	AMMAN	JORDAN	JORDAN	JORDAN	JORDAN	
KUWAIT	KUWAIT	KUWAIT	KUWAIT	KUWAIT	KUWAIT	
LEBANON	BEIRUT	LEBANON	LEBANON	LEBANON	LEBANON	
LIBYA	TRIPOLI	LIBYA	LIBYA	LIBYA	LIBYA	
OMAN	MUSCAT	OMAN	OMAN	OMAN	OMAN	
QATAR	QATAR*	QATAR	QATAR	QATAR	QATAR	
SAUDI ARABIA	JEDDAH	SAUDI ARABIA	SAUDI ARABIA	SAUDI ARABIA	SAUDI ARABIA	
SUDAN	KHARTOUM	SUDAN	SUDAN	SUDAN	SUDAN	
SYRIAN ARAB REPUBLIC	DAMASCUS	SYRIAN ARAB REPUBLIC	SYRIAN ARAB REPUBLIC	SYRIAN ARAB REPUBLIC	SYRIAN ARAB REPUBLIC	
UNITED ARAB EMIRATES	UNITED ARAB EMIRATES	UNITED ARAB EMIRATES	UNITED ARAB EMIRATES	UNITED ARAB EMIRATES	UNITED ARAB EMIRATES	
YEMEN	SANA'A	YEMEN	YEMEN	YEMEN	YEMEN	

* Areas of responsibility of Bahrain and Qatar NOFs are defined in the Service Level Agreement between the two States.

**TABLE AIM II-2 - PRODUCTION RESPONSIBILITY FOR SHEETS OF THE WORLD
AERONAUTICAL CHART - ICAO 1:1 000 000**

EXPLANATION OF THE TABLE

Column:

- 1 Name of the State accepting production responsibility.
- 2 World Aeronautical Chart — ICAO 1:1 000 000 sheet number(s) for which production responsibility is accepted.
- 3 Remarks.

Note — In those instances where the production responsibility for certain sheets has been accepted by more than one State, these States by mutual agreement should define limits of responsibility for those sheets. This should be reflected in the Remarks column

State	Sheet number(s)	Remarks
1	2	3
BAHRAIN	2547	
EGYPT	2447, 2448, 2543, 2544	<i>Note: For sheet 2447, Egypt to cover its own territory within Cairo FIR</i>
IRAN, ISLAMIC REPUBLIC OF	2338, 2339, 2428, 2429, 2443, 2444, 2548	
IRAQ	2427, 2445	
JORDAN	2426, 2446, 2447	<i>Note: Jordan to cover its own territory within Amman FIR</i>
KUWAIT	2445	<i>Note: Kuwait to cover its own territory within Kuwait FIR</i>
LEBANON	2426	<i>Note: Lebanon to cover its own territory within Beirut FIR</i>
LIBYA	2424, 2449, 2450, 2541, 2542, 2569	
OMAN	2563, 2670	
QATAR	-	
SAUDI ARABIA	2446, 2545, 2546, 2564, 2565, 2566, 2668, 2669	
SUDAN	2567, 2568, 2665, 2666, 2667, 2689, 2690, 2787, 2811	
SYRIAN ARAB REPUBLIC	2426	<i>Note: Syria to cover its own territory within Damascus FIR</i>
UNITED ARAB EMIRATES	-	
YEMEN	2686, 2687	

- END -