

IVAO XG - ATC OPS



ATC Guide



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Welcome

Hello and a very warm welcome from the IVAO-XG ATC Operations Department to all XG-Members, GCA holders and of course all remaining IVAO members!

Since we started the renewal of our website (www.ivoa-xg.com), we decided to overhaul the ATC Quick View as it was outdated and not the most efficient. The new layout enables controllers to control more efficiently as it is easier to read, making the desired information quicker to find. The new Quick View also contains more information than the previous one.

We hope that you find this Quick View better and more useful than the old one. If you notice any mistakes or have any feedback, please don't hesitate to email us at atcops@ivoa-xg.com.



Revisions

Date	Revision	FIR	Airport	Content
05JAN19	1.0	All	All Except OMAD	First release



FIR overview

Bahrain FIR/UIR

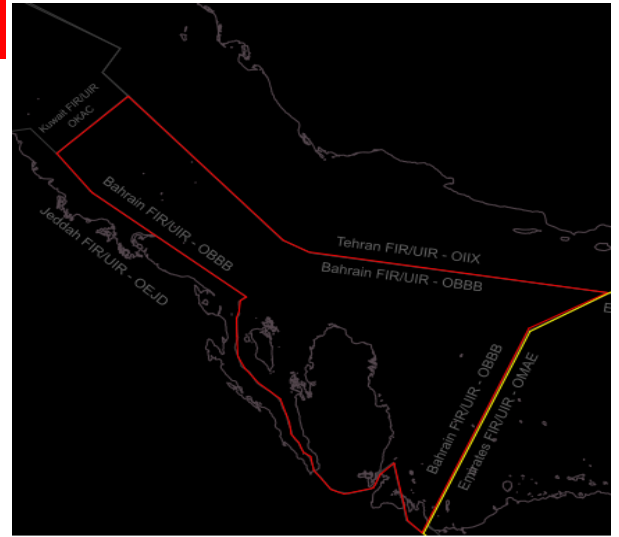
Info Bahrain FIR/UIR covering flights from lower boundaries up to UNL.

Special:

Doha Airspace covered from FL245 to UNL.

The FIR is adjacent to:

- Kuwait OKAC in north-west direction
- Tehran OIIX in northern to north-west direction
- Jeddah OEJD in south to south-east direction
- Emirates OMAE in eastern direction



Emirates FIR/UIR

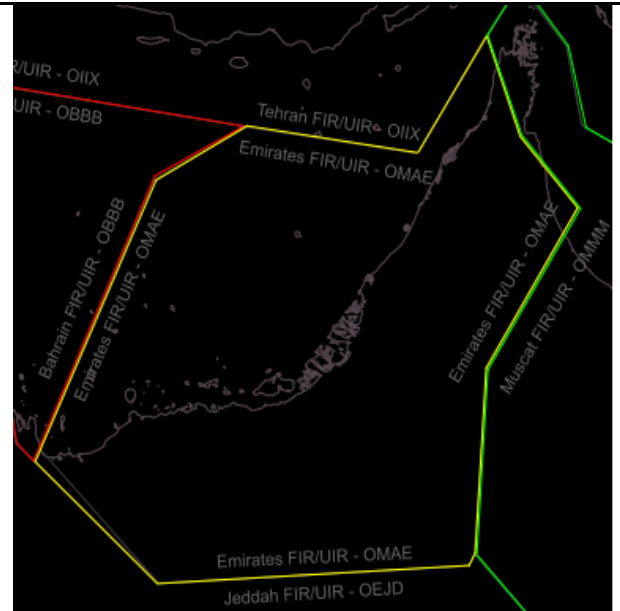
Info Emirates FIR/UIR covering traffic from lower boundaries up to UNL

Special:

Attention must given to the compilation of Airports in near vicinity to each other. e.g. Dubai, Sharjah, Al-Maktoum (DXB TMA).

The FIR is adjacent to:

- Bahrain OBBD in western direction
- Tehran OIIX in northern direction
- Muscat OMMM in eastern direction
- Jeddah OEJD in southern direction



Muscat FIR/UIR

Info Muscat FIR/UIR covering flights from lower boundaries up to FL UNL.

Special:

Widest and biggest airspace in our MCD, pay attention to mountainous areas specially between OMAE and OMMM.

The FIR is adjacent to:

- Tehran OIIX in northern direction
- Emirates OMAE in north-west direction
- Jeddah OEJD in western direction
- Mumbai Oceanic VABF in eastern direction
- Sanaa OYSC in south-west direction



Arabian Control

Arabian Control positions are ones in which one controller is able to control multiple FIRs at once, e.g. OOMM and OMAE, or OMAE and OBBB.

All Arabian Control positions are now put on hold and will be reintroduced later this year.

Dubai OMDB

General Information - Dubai International

ICAO-ID:	OMDB	IATA-ID:	DXB	Time Zone:	UTC+4	Elevation:	62 feet / 19 meters	Magnetic Variation:	002° E
Location:	Latitude: 25.252778 / 025° 15'10.00" N				Longitude: 55.364444 / 055° 21'52.00" E				

Airspace Information					Semicircular Rules		TL	TA
	CTR	TMA	FIR/UIR		RVSM			
Class	D	C	A	G	FL290-FL410		FL150	13000ft
Vertical Limit	1500ft-SFC	FL155-1500 ft	FL600-FL145	UNL-FL600			Static Values	
					Westbound	Even FL		
					Eastbound	Odd FL		

Communications

Ground / Airport			Radar		
OMDB_DEL	Dubai Delivery	120.350 MHz	OMDB_N_DEP	Dubai Departures	126.200 MHz
OMDB_S_GND*	Dubai Ground	121.650 MHz	OMDB_N_APP*	Dubai Arrival	124.450 MHz
OMDB_N_GND	Dubai Ground	118.350 MHz	OMDB_F_APP**	Dubai Director	127.900 MHz
OMDB_S_TWR*	Dubai Tower	119.550 MHz	OMAE_CTR	Emirates Centre	120.900 MHz
OMDB_N_TWR	Dubai Tower	118.750 MHz	OGCC_E_CTR***	Arabian Control	132.125 MHz

* marked Stations are primary ones and has to be opened first // **TWR must be online and approval by XG-ATC OPS //***special requirements and approval needed

Runway Information

Runway Information								SSR Codes	
RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m	International	
30L*	IDBW	111.300 MHz	299°	SEDPO	2000 ft	IIIc	4000 m	ACC	0501 - 0577
30R*	IDBR	110.900 MHz	299°	LOVOL	3000 ft	IIIc	4000 m	APP	3437 - 3477
12L	IDBL	110.100 MHz	119°	UKRIM	2000 ft	IIIc	4000 m	Local IFR	3401 - 3436
12R	IDBE	109.500 MHz	119°	PEDOV	3000 ft	IIIc	4000 m	VFR	0401 - 0477
								Military	6001 - 6077
									0601 - 0677

* marked RWY are for primary use up to 10kts tailwind component

Departure Operations / SID

RWY	ANVIX	DAVMO	EMERU	ITOTU	GETID	KUTLI	MIROT	NABIX	RIDAP	SENPA	OMNI	Initial Altitude	PDG
30R/L*	6F	3F	1F	1F	1F	3F	2F	2F	1F	1F	RW	4000 ft	5%**
12L/R	5G	3G	1G	N/A	1G	3G	2G	2G	2G	2G	HDG		3,3%**

* preferred Runway up to 10kts tailwind component, most efficient traffic flow // ** procedures apply after passing 2000ft

Arrival Operations / STAR

RWY	VUTEB	IMPED	LORID	DATOB	PUVAL
30L/R	3C/D	3C	3C/4D	3C/4D	5C/2D
12L/R	3B/3E	3B/3E	1E	1E	5B/E

Arrival Operations / Holdings -

Downwind 30L/R

	VELAR	TUKAK
TRK	120°	120°
Turn	Left	Left
Vmax	210kts	210kts
Outb Leg	1min	1min
Alt.	6000ft - 4000ft	6000ft - 4000ft

Arrival Operations / Holdings -

Downwind 12L/R

	SOGAP	SOLIL
TRK	299°	299°
Turn	Right	Left
Vmax	210kts	210kts
Outb Leg	1min	1min
Alt.	6000ft - 4000ft	6000ft - 4000ft

Arrival Operations / Holdings - ACC

	KIVUS	VUTEB	ITLAP	IMPED
TRK	109°	107°	204°	298°
Turn	Left	Right	Left	Right
Alt.	FL250 - 10000ft	FL250 - 10000ft	FL180 - 10000ft	FL180 - 10000ft



Sharjah OMSJ

General Information - Sharjah International

ICAO-ID:	OMSJ	IATA-ID:	SHJ	Time Zone:	UTC+4	Elevation:	118 feet / 19 meters	Magnetic Variation:	001° E
Location:	Latitude: 25.32.8575 / 025° 19'42.87" N				Longitude: 55.517150 / 055° 31'01.74" E				

Airspace Information					Semicircular Rules		TL	TA
	CTR	TMA	FIR/UIR		RVSM			
Class	D	C	A	G	FL290-FL410		FL150	13000ft
Vertical Limit	1500ft-SFC	FL155-1500 ft	FL600-FL145	UNL-FL600			Static Values	
					Westbound	Even FL		
					Eastbound	Odd FL		

Communications

Ground / Airport			Radar		
OMSJ_GND	Sharjah Ground	121.875 MHz	OMDB_N_DEP	Dubai Departures	126.200 MHz
OMSJ_TWR	Sharjah Tower	118.600 MHz	OMDB_N_APP*	Dubai Arrival	124.450 MHz
			OMDB_F_APP**	Dubai Director	127.900 MHz
			OMAE_CTR	Emirates Centre	120.900 MHz
			OGCC_E_CTR***	Arabian Control	132.125 MHz

TWR must be online and approval by XG-ATC OPS //*special requirements and approval needed

Runway Information

RWY	LOC ID	ILS Frequency	Track	IAF	ILS Alt.	CAT	Length m
30*	IHSW	111.950 MHz	300°	NOSGO	2500 ft	II	4060 m
12	ISRE	108.550 MHz	120°	SJ417	2000 ft	II	4060 m

* marked RWY are for primary use up to 10kts tailwind component

SSR Codes

International	0501 - 0577
ACC	3437 - 3477
APP	3401 - 3436
Local IFR	0401 - 0477
VFR	6001 - 6077
Military	0601 - 0677

Departure Operations / SID

RWY	ANVIX	DAVMO	EMERU	GETID	KUTLI	MIROT	NABIX	RIDAP	SENPA	OMNI	Initial Altitude	PDG
30*	5R	3R	1R	1R	3R	2R	2R	2R	2R	RW	3000 ft	5%**
12	4Q	4Q	1Q	1Q	3Q	3Q	3Q	3Q	3Q	HDG		

* preferred Runway up to 10kts tailwind component, most efficient traffic flow // ** procedures apply after passing 2000ft

Arrival Operations / STAR

RWY	GONVO	LORID	NOLSU	PUVAL
30	4M	4M	2M	6M
12	3K	3K	3K	7K

Arrival Operations / Holdings -

Downwind 30		
	KUPOR	IMPIV
TRK	119°	294°
Turn	Left	Right
Vmax	210kts	210kts
Outb Leg	1min	1min
Alt.	8000 - 6000ft	9000 - 7000ft

Arrival Operations / Holding -

Downwind 12	
	SOBUN
TRK	299°
Turn	Right
Vmax	210kts
Outb Leg	1min
Alt.	6000ft - 4000ft

Arrival Operations / Holdings - ACC

	KIVUS	VUTEB	ITLAP	IMPED
TRK	109°	107°	204°	298°
Turn	Left	Right	Left	Right
Alt.	FL250 - 10000ft	FL250 - 10000ft	FL180 - 10000ft	FL180 - 10000ft



AI Maktoum OMDW

General Information - AI Maktoum Intenational

ICAO-ID:	OMDW	IATA-ID:	DWC	Time Zone:	UTC+4	Elevation:	171 feet / 52 meters	Magnetic Variation:	002° E
Location:	Latitude: 24.897959 / 24° 23'52.65" N				Longitude: 55.143127 / 055° 08'35.266" E				

Airspace Information

	CTR1	CTR2	TMA	FIR/UIR		RVSM
Class	D		C	A	G	FL290-FL410
Vertical Limit	1500ft-SFC	1500ft - 1000ft	FL155-1500 ft	FL600-FL145	UNL-FL600	

TL	TA	Semicircular Rules	
FL150	13000ft	Westbound	Even FL
		Eastbound	Odd FL
Static Values			

Communications

Ground / Airport			Radar		
OMDW_GND	AI Maktoum Ground	118.375 MHz	OMDB_N_DEP	Dubai Departures	126.200 MHz
OMDW_TWR	AI Maktoum Ground	118.625 MHz	OMDB_N_APP	Dubai Arrival	124.450 MHz
			OMDW_APP***	AI Maktoum Radar	124.025 MHz
			OMAE_CTR	Emirates Centre	120.900 MHz
			OGCC_E_CTR***	Arabian Control	132.125 MHz

***special requirements and approval needed

Runway Information

RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m
30*	IJWA	109.750 MHz	299°	GEXIK	2000 ft	IIIa	4500 m
12	IJEA	111.750 MHz	119°	NITRI	2000 ft	IIIa	4500 m

* marked RWY are for primary use up to 10kts tailwind component

SSR Codes

International	0501 - 0577
ACC	3437 - 3477
APP	3401 - 3436
Local IFR	0401 - 0477
VFR	6001 - 6077
Military	0601 - 0677

Departure Operations / SID

RWY	ANVIX	DAVMO	EMERU	KUTLI	MIROT	NABIX	NOLSU	RIDAP	SENPA	OMNI	Initial Altitude	PDG
30*	4L	4L***	1L	3L	3L	3L	3L	3L	3L	RW	3000 ft	5%**
12	5J	4J	2J	3J	3J	3J	3J	3J	3J	HDG		6,4%***

* preferred Runway up to 10kts tailwind component, most efficient traffic flow // ** procedures apply after passing 2000ft // *** DAVMO 4L ONLY

Arrival Operations / STAR

RWY	DATOB	ELOVU	GERUL	GIDIS	GONVI	LORID	PUVAL	UMAMI
30	4Z	2Z	2Z	4Z	4Z	2Z	5Z	3Z
12	4Y	2Y	2Y	4Y	4Y	2Y	5Y	3Y



AI Maktoum OMDW

General Information - AI Maktoum Intenational

ICAO-ID:	OMDW	IATA-ID:	DWC	Time Zone:	UTC+4	Elevation:	171 feet / 52 meters	Magnetic Variation:	002° E
Location:	Latitude: 24.897959 / 24° 23'52.65" N				Longitude: 55.143127 / 055° 08'35.266" E				

Airspace Information

	CTR1	CTR2	TMA	FIR/UIR		RVSM
Class	D		C	A	G	FL290-FL410
Vertical Limit	1500ft-SFC	1500ft - 1000ft	FL155-1500 ft	FL600-FL145	UNL-FL600	

TL	TA	Semicircular Rules	
FL150	13000ft	Westbound	Even FL
		Eastbound	Odd FL
Static Values			

Arrival Operations / Holdings - ACC				
	KIVUS	VUTEB	ITLAP	IMPED
TRK	109°	107°	204°	298°
Turn	Left	Right	Left	Right
Alt.	FL250 - 10000ft	FL250 - 10000ft	FL180 - 10000ft	FL180 - 10000ft

Arrival Operations / Holding -		
Downwind 30/12		
	SINPU	TOVLA
TRK	088°	275°
Turn	Right	Left
Vmax	210kts	210kts
Outb Leg	1min	1min
Alt.	10000ft - 4000ft	10000ft - 4000ft



Abu Dhabi OMAA

General Information - Abu Dhabi International

ICAO-ID:	OMAA	IATA-ID:	AUH	Time Zone:	UTC+4	Elevation:	88 feet / 27 meters	Magnetic Variation:	002° E
Location:	Latitude: 24.432972 / 024° 25'58.70" N				Longitude: 54.651138 / 054° 39'04.10" E				

Airspace Information						Semicircular Rules		TL	TA
	CTR	TMA	FIR/UIR		RVSM	Westbound	Even FL	FL150	13000ft
Class	D	C	A	G	FL290-FL410	Eastbound	Odd FL		
Vertical Limit	1500ft-SFC	FL155-1500 ft	FL600-FL145	UNL-FL600					Static Values

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates
Abu Dhabi	VOR DME	ADV	114.250 MHz	242508.27N / 0544023.68E

Communications

Ground / Airport			Radar		
OMAA_DEL	Abu Dhabi Delivery	125.100 MHz	OMAA_APP*	Abu Dhabi Radar	124.400 MHz
OMAA_S_GND*	Abu Dhabi Ground	123.975 MHz	OMDB_FS_APP**	Abu Dhabi Director	118.000 MHz
OMAA_N_GND	Abu Dhabi Ground	121.950 MHz	OMDB_FN_APP**	Abu Dhabi Director	118.425 MHz
OMAA_S_TWR*	Abu Dhabi Tower	119.200 MHz	OMAE_L_CTR	Emirates Centre	120.900 MHz
OMAA_N_TWR	Abu Dhabi Tower	118.675 MHz	OGCC_E_CTR***	Arabian Control	132.125 MHz

* marked Stations are primary ones and has to be opened first // **TWR must be online and approval by XG-ATC OPS // ***special requirements and approval needed

Runway Information

Runway Information								SSR Codes	
RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m	International	1701 - 1777
31L*	IAW	109.300 MHz	306°	LUBIK	3000 ft	IIIA	4106 m	ACC	3437 - 3477
31R*	IAN	108.750 MHz	306°	SETRU	2000 ft	IIIA	4100 m	APP	3401 - 3436
13L	IAS	110.300 MHz	126°	PUVOD	2000 ft	IIIA	4100 m	Local IFR	0401 - 0477
13R	IAE	109.150 MHz	126°	KINIL	3000 ft	I	4106 m	VFR	6001 - 6077
* marked RWY are for primary use up to 10kts tailwind component								Military	0601 - 0677

Departure Operations / SID

RWY	ATUDO	BOSEV	DAXIB	KANIP	LORID	MEKRI	ORNEL	TULON	Initial Altitude
31L*	3K	1K	1K	3K/1U	1K	2K	1K	1K	4000 ft
31R*	3P	1P	1P	1N/3P	1P	1P	1P	1P	
13L	5F	1F	1F	3F	1F	1F	1F	1F	
13R	5G	1G	1G	3G	1G	1G	1G	1G	

* preferred Runway up to 10kts tailwind component, most efficient traffic flow



Abu Dhabi OMAA

General Information - Abu Dhabi International

ICAO-ID:	OMAA	IATA-ID:	AUH	Time Zone:	UTC+4	Elevation:	88 feet / 27 meters	Magnetic Variation:	002° E
Location:	Latitude: 24.432972 / 024° 25'58.70" N				Longitude: 54.651138 / 054° 39'04.10" E				

Airspace Information					Semicircular Rules		TL	TA
	CTR	TMA	FIR/UIR		RVSM		FL150	13000ft
Class	D	C	A	G	FL290-FL410			
Vertical Limit	1500ft-SFC	FL155-1500 ft	FL600-FL145	UNL-FL600				static values

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates
Abu Dhabi	VOR DME	ADV	114.250 MHz	242508.27N / 0544023.68E

Arrival Operations / STAR

RWY	ATUDO	ELOVU	EMERU	GIDOB	NOBTO	ROVOS	UKILI
31L*	2C/4D	2C/1D	3C/2D	2C/1D/3J/2M	6C/5D/3J	6C/5D/3J	4C/3D/2J
31R*							
13L	2A/4B	3A/2B	2A/1B	3A/2B	6A/5B/2H	5A/4B/43H	2A/1B
13R							

Arrival Operations / Holdings - ACC

	ALNEV	ROVOS
TRK	109°	107°
Turn	Left	Right
Alt.	10000ft - FL250	10000ft - FL250

Arrival Operations / Holdings - Downwind 31L/R

	ORGAD	LOXIX	GEXOD	TAPTO	REXIG
TRK	115°	126°	287°	126°	295°
Turn	Left	Left	Left	Left	Right
Vmax	230kts	210kts	N/A	210°	N/A
Outb Leg	1min	1min	1min	1min	1min
Alt.	13000ft - 6000ft	6000ft - 4000ft	13000ft - 6000ft	6000ft - 4000ft	13000ft - 6000ft

Arrival Operations / Holdings - Downwind 12L/R

	OVOLA	PAXIK	GEXOD	REXIG
TRK	306°	306°	287°	295°
Turn	Right	Left	Left	Right
Vmax	230kts	230kts	N/A	N/A
Outb Leg	1min	1min	1min	1min
Alt.	13000ft - 6000ft	13000ft - 6000ft	13000ft - 6000ft	13000ft - 6000ft



Al Ain OMAL

General Information - Al Ain International

ICAO-ID:	OMAL	IATA-ID:	AAN	Time Zone:	UTC+4	Elevation:	866 feet / 247 meters	Magnetic Variation:	002° E
Location:	Latitude: 24.261667 / 24° 15'42.00" N				Longitude: 55.609167 / 055° 36'33.00" E				

Airspace Information					TL	TA	Semicircular Rules	
	CTR	TMA	FIR/UIR		FL150	13000ft	Westbound	Even FL
Class	D	C	A	G	FL290-FL410	Static Values	Eastbound	Odd FL
Vertical Limit	4000ft-SFC	FL155-4500 ft	FL600-FL145	UNL-FL600				

Navigation AIDS				
Station	Type	Station ID	Frequency	Coordinates
Al Ain	DVOR/DME	ALN	112.600 MHz	24° 15'35.05"N / 55° 36'22.89"

Communications

Ground / Airport			Radar		
OMAL_GND	Al Ain Ground	129.150 MHz	OMAA_APP	Abu Dhabi Radar	124.400 MHz
OMDW_TWR	Al Ain Tower	119.850 MHz	OMAE_CTR	Emirates Centre	120.900 MHz
			OGCC_E_CTR***	Arabian Control	132.125 MHz

***special requirements and approval needed

Runway Information								SSR Codes	
RWY	LOC ID	ILS Frequency	Track	IAF	ILS Alt.	CAT	Length m	International	0501 - 0577
01/Z	IALA	111.900 MHz	006°	ALN	5000ft	I	4005 m	ACC	3437 - 3477
01/Y*	IALA	111.900 MHz	006°	ROVOS	2500ft	I	4005 m		
19	NO ILS AVAILABLE // RNAV OR VOR/DME APP ONLY							APP	3401 - 3436
* refer to ILS APP Charts; ILS01Y APP → 11DME Arc ALN									

Departure Operations / SID								Local IFR	0401 - 0477
RWY	GIDIS	LABRI	MURGU	RETAS	ROVOS	Initial Altitude	PDG	VFR	6001 - 6077
01	1H	2H	1H	2H	1H	3000 ft	7,4 %*	Military	0601 - 0677
19	1J	2J	1J	2J	1J		7%*		
* up to 3000ft, due to airspace restrictions									

Arrival Operations / STAR

RWY	GIDIS	ITRAX	KANIP	ROVOS
01	1K	1K	1K	2K
19	2L	2L/2M	2L	3L

Arrival Operations / Holdings - ACC

	KIVUS	VUTEB	ITLAP	IMPED
TRK	109°	107°	204°	298°
Turn	Left	Right	Left	Right
Alt.	FL250 - 10000ft	FL250 - 10000ft	FL180 - 10000ft	FL180 - 10000ft



Fujairah OMFJ

General Information - Fujairah International

ICAO-ID:	OMFJ	IATA-ID:	FJR	Time Zone:	UTC+4	Elevation:	152 feet / 46 meters	Magnetic Variation:	1,88° E
Location:	Latitude: 25.112225 / 25° 06'44.01" N				Longitude: 56.323964 / 056° 19'26.27" E				

Airspace Information

	CTR	CTA	FIR	FIR/UIR		RVSM
Class	D	C	C	A	G	FL290-FL410
Vertical Limit	5000ft-SFC	9500-1500 ft	10000ft - FL145	FL600-FL155	UNL-FL600	

Semicircular Rules

Westbound	Even FL
Eastbound	Odd FL

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates
Fujairah	DVOR/DME	FJV	113.800 MHz	25° 06'02.60"N / 56° 21'16.40"

TL	TA
FL150	13000ft
Static Values	

Communications

Ground / Airport			Radar		
OMFJ_GND	Fujairah Ground	129.400 MHz	OMFJ_APP	Fujairah Approach	129.400 MHz
OMFJ_TWR	Fujairah Tower	124.600 MHz	OMAE_CTR	Emirates Centre	120.900 MHz
			OGCC_E_CTR***	Arabian Control	132.125 MHz

***special requirements and approval needed

Runway Information

RWY	LOC ID	ILS Frequency	Track	IAF	ILS Alt.	CAT	Length m
11	NO LANDINGS ON RW29 - DEPARTURES ONLY						
29	IFJR	111.500 MHz	291°	BORUL	3000ft	I	3750m

SSR Codes

International	0501 - 0577
ACC	3437 - 3477
APP	3401 - 3436
Local IFR	0401 - 0477
VFR	6001 - 6077
Military	0601 - 0677

Departure Operations / SID

RWY	ALAIN	GABKO	IMPED	NOLSU	RAK	SERSA	TONVO	UMAMI
11	3F	3F	2F	2F	5F	3F	3F	2F
Init Alt.	7000ft	7000ft	6000ft	6000ft	6000ft	7000ft	8000ft	6000ft
29	2N/1P	3N	2N/2P	2N	3N	3N	N/A	2N/2P
Init Alt.	7000ft	7000ft	6000ft	6000ft	6000ft	7000ft	N/A	6000ft

Arrival Operations / STAR

RWY	KUSEN	RUDAT
29	2A	2A

Arrival Operations / Holdings - ACC

	KIVUS	VUTEB	ITLAP	IMPED
TRK	109°	107°	204°	298°
Turn	Left	Right	Left	Right
Alt.	FL250 - 10000ft	FL250 - 10000ft	FL180 - 10000ft	FL180 - 10000ft



Ras Al Khaimah OMRK

General Information - Ras Al Khaimah International

ICAO-ID:	OMRK	IATA-ID:	RKT	Time Zone:	UTC+4	Elevation:	94 feet / 29 meters	Magnetic Variation:	1° E
Location:	Latitude: 25.613483 / 25° 36'48.54" N				Longitude: 55.938817 / 55° 56'19.74" E				

Airspace Information					Semicircular Rules		TL	TA	
	CTR	CTA	FIR/UIR		RVSM	Westbound	Even FL	FL150	13000ft
Class	D	C	A	G	FL290-FL410	Eastbound	Odd FL		
Vertical Limit	1500ft-SFC	6500ft - 1500ft	FL600-FL155	UNL-FL600					Static Values

Navigation AIDS				
Station	Type	Station ID	Frequency	Coordinates
Ras Al Khaimah	VOR/DME	RAV	113.600 MHz	25° 35'18.43"N / 55° 56'46.75"

Communications

Ground / Airport			Radar		
OMRK_GND	Ras Al Khaimah Ground	121.600 MHz	OMRK_APP	Ras Al Khaimah Approach	124.00 MHz
OMRK_TWR	Ras Al Khaimah Tower	118.250 MHz	OMAE_CTR	Emirates Centre	120.900 MHz
			OGCC_E_CTR***	Arabian Control	132.125 MHz

***special requirements and approval needed

Runway Information							
RWY	LOC ID	ILS Frequency	Track	IAF	ILS Alt.	CAT	Length m
16	RNAV OR VOR/DME APPROACH ONLY						
34	IRK	110.500 MHz	343°	ALSIL	2500ft	I	3750m

SSR Codes	
International	0501 - 0577
ACC	3437 - 3477
APP	3401 - 3436
Local IFR	0401 - 0477
VFR	6001 - 6077
Military	0601 - 0677

Departure Operations / SID					
RWY	ASNEK	EMOPI	PUVAL	Initial Altitude	PDG
16	1E/1W	2S	1S	3000 ft	refer to approach Charts
34	1N	2E/2W	1N		

Arrival Operations / STAR				
RWY	ALSIL	EGPEP	LAGLI	NADNI
16	1N	2N	2E/2W	2E/2W
34	1S	1E/2W	1S	2S

Arrival Operations / Holdings - ACC				
	KIVUS	VUTEB	ITLAP	IMPED
TRK	109°	107°	204°	298°
Turn	Left	Right	Left	Right
Alt.	FL250 - 10000ft	FL250 - 10000ft	FL180 - 10000ft	FL180 - 10000ft



Bahrain OBBI

General Information - Bahrain International

ICAO-ID:	OBBI	IATA-ID:	BAH	Time Zone:	UTC+3	Elevation:	8 feet / 2,4 meters	Magnetic Variation:	002° E
Location:	Latitude: 26.270834 / 026° 16'15.00" N				Longitude: 50.633610 / 050° 38'01.00" E				

Airspace Information

	CTR	TMA			FIR/UIR		RVSM
Class	D	D	C	A	A	G	FL290 - FL410
Vert. Lim	1000ft / SFC	A1000ft - B4500ft	4500ft - belowFL150	FL150	FL460 - FL150	above FL 460	

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates	Semicircular Rules		TL	TA
					Westbound	Even FL	FL150	13000ft
Bahrain	DVOR/DME	BHR	111.800 MHz	261529.93N / 0503919.18E	Eastbound	Odd FL	static values	

Communications

Ground / Airport			Radar		
OBBI_GND	Bahrain Ground	121.850 MHz	OBBI_APP	Bahrain Approach	127.850 MHz
OBBI_TWR	Bahrain Tower	118.500 MHz	OBBI_CTR	Bahrain Central	127.525 MHz
			OGCC_W_CTR**	Arabian Control	132.125 MHz

**special requirements and approval needed

Runway Information

Runway Information								SSR Codes	
RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m	International	
30R	IBIA	110.300 MHz	301°	D8.0 BHR	1500ft	II	3964m	ACC/APP	4500 - 4577
12L	IBIB	111.500 MHz	121°	D10.0 BHR	1500ft	II	3964m	Local IFR	1621 - 1677
30L	used as Taxiway - RWY not active; ask Pilot if he used default scenery!							VFR	1601 - 1620
12R								Military	1760 - 1767
									1750 - 1757

Departure Operations / SID

30R/12L Runway Heading to 4000ft - after airborne contact next adjacent ATC; then expect vectors or direct to first Waypoint

Arrival Operations / STAR

RWY	DENVO 1	KOBOK1	LADNA 1	SOGAT 1
30R/12L	Radar vectors to final			

Arrival Operations / Holdings - ACC

RWY	AFNAN	ALMOK	ALTOM	ITNAS	SOLOB
30R/12L	268°	288°	294°	320°	294°
1.5min outboundlegs applies for all Holdings	Turn	Right	Right	Right	Right
	Vmax	230kts	N/A	N/A	N/A
	Alt.	FL460 - FL250	FL460 - 6000ft		

Arrival Operations / Holdings - Approach

	ALRAS	MARWA	NAGAT	OBSAS	RAZAN	SOGAT	VELOG
TRK	300°	302°	120°	207°	122°	292°	142°
Turn	Right	Left	Left	Right	Right	Right	Left
Vmax	210kts	240kts	210kts	240kts	240kts	240kts	240kts
Alt.	13000ft - 3000ft	FL150 - 5000ft	13000ft - 3000ft	13000ft - 3000ft	FL150 - 5000ft	FL220 - 5000ft	FL210 - 5000ft



Doha Hamad OTHH

General Information - Doha Hamad International

ICAO-ID:	OTHH	IATA-ID:	DOH	Time Zone:	UTC+3	Elevation:	37 feet / 11 meters	Magnetic Variation:	002.3° E
Location:	Latitude: 025° 15'39.81" N				Longitude: 051° 33'54.34" E				

Airspace Information

	CTR	FIR/TMA			UIR (OBBB)		RVSM (OBBB)
Class	D	C	A	A	G	FL290 - FL410	
Vert. Lim	2500ft / SFC	3500ft - FL145	FL150 - FL245	FL460 - FL150	above FL 460		

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates	Semicircular Rules		TL	TA
					Westbound	Even FL	FL150	13000ft
Doha/Hamad	DVOR/DME	DOH	114.400 MHz	251459.66N/0513634.80E	Eastbound	Odd FL	static values	

Communications

Ground / Airport				Radar		
OTHH_DEL	Hamad Delivery	120.875 MHz	OTHH_APP	Doha Approach	119.725 Mhz	
OTHH_E_GND ²	Hamad Ground	120.225 MHz	OTHH_F_APP*	Doha Director	119.400 MHz	
OTHH_W_GND ³	Hamad Ground	118.650 MHz	OTHH_R_APP	Doha Radar	121.100 MHz	
OTHH_E_TWR	Hamad Tower	118.525 MHz	OBBS_CTR	Bahrain Cenntral	127.525 MHz	
OTHH_W_TWR	Hamad Tower	118.025 MHz	OGCC_W_CTR**	Arabian Control	126.700 MHz	
			OGCC_E_CTR**	Arabian Control	132.125 MHz	

*TWR must be online and approval by XG-ATC OPS / **special requierements and approval needed

Note² - A/C on Cargo Apron, Emiri Terminal and A/C leaving Maintenance Area and Emiri Hangar

Note³ - A/C parked on North Node and GAT

Runway Information

Runway Information								SSR Codes	
RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m	International	2601 - 2677
34R	AZM	110.100 MHz	336°	LAGMA	3000ft	IIIa	4850m	ACC/APP	6121 - 6177
34L	HJJ	111.900 MHz	336°	IMKAT	3000ft	IIIa	4250m	Domestic	6101 - 6120
16R	QAT	108.100 MHz	156°	GOLSI	3000ft	IIIa	4250m	VFR	6001 - 6077
16L	DIE	108.700 MHz	156°	TOVAN	3000ft	IIIa	4850m	Military	0601 - 0677

Departure Operations / SID

RWY	ALSEM	ALVEN	BATHA	BUNDU	LOXUL	MUXOP	NAMLA	PATOM	SALWA	VAXIN	Initial Altitude
34R*	1E	1E	1E	1E	N/A	1E/1W	1E	1E	1E	1E	3000 ft
34L*	1W	1W	1W	1W	N/A	1E/1W	1W	1W	1W	1W	
16R	1C	1C	1C	1C	1M/1C	N/A	1C	1C	1C	1C	
16L	1M	1M	1M	1M	1M/1C	N/A	1M	1M	1M	1M	

* preferred Runway up to 10kts tailwind component, most efficient traffic flow



Doha Hamad OTHH

General Information - Doha Hamad International

ICAO-ID:	OTHH	IATA-ID:	DOH	Time Zone:	UTC+3	Elevation:	37 feet / 11 meters	Magnetic Variation:	002.3° E
Location:	Latitude: 025° 15'39.81" N				Longitude: 051° 33'54.34" E				

Airspace Information

	CTR	FIR/TMA			UIR (OB BB)		RVSM (OB BB)	
Class	D	C	A	A	G	FL290 - FL410		
Vert. Lim	2500ft / SFC	3500ft - FL145	FL150 - FL245	FL460 - FL150	above FL 460			

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates	Semicircular Rules		TL	TA
					Westbound	Even FL	FL150	13000ft
Doha/Hamad	DVOR/DME	DOH	114.400 MHz	251459.66N/0513634.80E	Eastbound	Odd FL	static values	

Arrival Operations / STAR

RWY	AFNAN	BAYAN	GINTO
34R	1E	1E	1E
34L	1W	1W	1W
16R	1C	1C	1C
16L	1M	1M	1M

Arrival Operations / Holdings - Approach

	AFNAN *		ALKOR	BAYAN*		EMEXA*		GINTO*		VELAM
TRK	268°		169°	229°		040°		087°		117°
Turn	Right		Left	Left		Left		Right		Right
Time	1min	1.5min	1min	1min	1.5min	1min	1.5min	1min	1.5min	1min
Vmax	230kts	240kts	230kts	230kts	240kts	230kts	250kts	230kts	240kts	250
Alt.	13000ft - 8000ft	FL220 - FL150	3000ft - 2000ft	13000ft - 8000ft	FL240 - FL150	13000ft - 8000ft	FL200 - FL150	13000ft - 8000ft	FL210 - FL150	FL240 - FL190

* Inbound traffic to OTDB, OTHH and OTBH will be transferred from DOHA Radar (OTHH_R_APP) to DOHA Approach (OTHH_APP) when descended to, or level at FL150



Doha International OTBD

General Information - Doha International

ICAO-ID:	OTBD	IATA-ID:	N/A	Time Zone:	UTC+3	Elevation:	37 feet / 11 meters	Magnetic Variation:	002° E
Location:	Latitude: 025° 15'39.80" N				Longitude: 051° 33'54.30" E				

Airspace Information

	CTR	FIR/TMA			UIR (OB BB)		RVSM (OB BB)
Class	D	C	A	A	G	FL290 - FL410	
Vert. Lim	2500ft / SFC	3500ft - FL145	FL150 - FL245	FL460 - FL150	above FL 460		

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates	Semicircular Rules		TL	TA
					Westbound	Even FL	FL150	13000ft
Doha/INTL	DVOR/DME	DOH	112.400 MHz	251401.11N/0513437.85E	Eastbound	Odd FL	static values	

Communications

Ground / Airport			Radar		
OTBD_GND	Doha Ground	121.925 MHz	OTHH_APP	Doha Approach	119.725 Mhz
OTBD_TWR	Doha Tower	118:900 MHz	OTHH_F_APP*	Doha Director	119.400 MHz
			OTHH_R_APP	Doha Radar	121.100 MHz
			OB BB_CTR	Bahrain Cen ntral	127.525 MHz
			OGCC_W_CTR**	Arabian Control	126.700 MHz
			OGCC_E_CTR**	Arabian Control	132.125 MHz

**special requierements and approval needed

Runway Information

RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m
15	AMD	108.500 MHz	156°	MAXMO	3000ft	I	4750m
33	IBD	109.500 MHz	336°	NAJMA	3000ft	IIIa	4750m

SSR Codes

International	2601 - 2677
ACC/APP	6121 - 6177
Domestic	6101 - 6120
VFR	6001 - 6077
Military	0601 - 0677

Departure Operations / SID

RWY	ALSEM	ALVEN	BATHA	BUNDU	DERNO	NAMLA	NOLPI	PATOM	SALWA	VAXIN	Initial Altitude
15	1S	1S	1S	1S	N/A	1S	1S	1S	1S	1S	4000 ft
33	1N	1N	1N	1N	1N	1N	N/A	1N	1N	1N	



Doha International OTBD

General Information - Doha International

ICAO-ID:	OTBD	IATA-ID:	N/A	Time Zone:	UTC+3	Elevation:	37 feet / 11 meters	Magnetic Variation:	002° E
Location:	Latitude: 025° 15'39.80" N				Longitude: 051° 33'54.30" E				

Airspace Information

	CTR	FIR/TMA			UIR (OB BB)		RVSM (OB BB)		
Class	D	C	A	A	G	FL290 - FL410			
Vert. Lim	2500ft / SFC	3500ft - FL145	FL150 - FL245	FL460 - FL150	above FL 460				

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates	Semicircular Rules		TL	TA
					Westbound	Even FL	FL150	13000ft
Doha/INTL	DVOR/DME	DOH	112.400 MHz	251401.11N/0513437.85E	Eastbound	Odd FL	static values	

Arrival Operations / STAR

RWY	AFNAN	BAYAN	GINTO
15	1S	1S	1S
33	1N	1N	1N

Arrival Operations / Holdings - Approach

	AFNAN *		ALKOR	BAYAN*		EMEXA*		GINTO*		VELAM
TRK	268°		169°	229°		040°		087°		117°
Turn	Right		Left	Left		Left		Right		Right
Time	1min	1.5min	1min	1min	1.5min	1min	1.5min	1min	1.5min	1min
Vmax	230kts	240kts	230kts	230kts	240kts	230kts	250kts	230kts	240kts	250
Alt.	13000ft - 8000ft	FL220 - FL150	3000ft - 2000ft	13000ft - 8000ft	FL240 - FL150	13000ft - 8000ft	FL200 - FL150	13000ft - 8000ft	FL210 - FL150	FL240 - FL190

* Inbound traffic to OTDB, OTHH and OTBH will be transferred from DOHA Radar (OTHH_R_APP) to DOHA Approach (OTHH_APP) when descended to, or level at FL150



Muscat OOMS

General Information - Muscat International

ICAO-ID:	OOMS	IATA-ID:	MCT	Time Zone:	UTC+4	Elevation:	49 feet / 15 meters	Magnetic Variation:	001° E
Location:	Latitude: 23.593278 / N23° 36.0'				Longitude: 58.284444 / E058° 17.0'				

Airspace Information

Airspace Information						Semicircular Rules		
	CTR	TMA		FIR		RVSM	Westbound	Even FL
Class	C	C	A	A	G	FL290-FL410	Eastbound	Odd FL
Vertical Limit	1500ft-SFC	12500ft-1500ft	FL250-13000ft	FL600-13000ft	UNL-FL600			

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates	TL	TA	
Muscat	VOR/DME	MCT	114.500 MHz	23° 35' 28.45" N / 58° 15' 36.43" E	FL150	13000ft	
						Static Values	

Communications

Ground / Airport

Radar

OOMS_DEL	Muscat Delivery	125.575 MHz	OOMS_APP	Muscat Approach	121.200 MHz
OOMS_N_GND*	Muscat Ground	127.825 MHz	OOMS_CTR	Muscat Centre	135.600 MHz
OOMS_S_GND	Muscat Ground	121.800 MHz			
OOMS_TWR	Muscat Tower	118.825 MHz			

* marked Stations are primary ones and has to be opened first

Runway Information

SSR Codes

RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m	International	4001-4040
08L	IML	108.900 MHz	084°	M12WL	3400ft	II	4000m	ACC/APP	4041 - 4077
26R	IMR	110.700 MHz	264°	D12IMR	3400ft	II	4000m	Domestic	4700-4777
08R	Used as Taxiway F —RWY not active. If pilot has default scenery, departure out of this runway can be authorized.							VFR/Local	6001-6077
26L								Military	0601-0677

Departure Operations / SID

RWY	DAPOK	EMURU	GERAR	IVETO	IZK	MUSRU	SEVLA	SODEB	TULBU	VUSET	MURMA**	ITLAK**
08L*	1S											1N
26R	1P											1N
Int. Alt	10000'	13000'	10000'	10000'	10000'	11000'	11000'	11000'	10000'	7000'	3000'	3000'

* preferred runway up to 10kts tailwind component, most efficient traffic flow. // ** Non-established SIDs used for runway heading departures, min climb grad 5%

Arrival Operations / STAR

	GERAR	MUSUK	LAKLU	TULBU	VUSET	ELIGO	TUMET	EMURU	RADAX
08L*	1V								
26R	1U								

* Preferred runway up to 10kts tailwind component, most efficient traffic flow



Muscat OOMS

General Information - Muscat International

ICAO-ID:	OOMS	IATA-ID:	MCT	Time Zone:	UTC+4	Elevation:	49 feet / 15 meters	Magnetic Variation:	001° E
Location:	Latitude: 23.593278 / N23° 36.0'				Longitude: 58.284444 / E058° 17.0'				

Airspace Information

Airspace Information						Semicircular Rules		
	CTR	TMA		FIR		RVSM	Westbound	Even FL
Class	C	C	A	A	G	FL290-FL410	Eastbound	Odd FL
Vertical Limit	1500ft-SFC	12500ft-1500ft	FL250-13000ft	FL600-13000ft	UNL-FL600			

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates	TL	TA	
Muscat	VOR/DME	MCT	114.500 MHz	23° 35' 28.45" N / 58° 15' 36.43" E	FL150	13000ft	
						Static Values	

Arrival Operations / Holdings - ACC ARR. 08L

Arrival Operations / Holdings - ACC ARR. 26R

	BUBIL	KANOL	LADBA	MIGMO	NONKA		BUBIL	KANOL	LADBA	MIGMO	NONKA
TRK	087°	121°	246°	281°	345°	TRK	087°	121°	246°	281°	345°
Turn	Right	Right	Right	Left	Left	Turn	Right	Right	Right	Right	Right
Alt.	9000-8000	7000-9000	12000	12000	12000	Alt.	11000	12000	7000-10000	7000-10000	9000-10000



Salalah OOSA

General Information - Salalah International

ICAO-ID:	OOSA	IATA-ID:	SLL	Time Zone:	UTC+4	Elevation:	78 feet / 24 meters	Magnetic Variation:	001° E
Location:	Latitude: 17.044399 / N17° 02.32'				Longitude: 54.094200 / E054° 05.48'				

Airspace Information						TL	TA	Semicircular Rules	
	CTR	TMA	FIR/UIR		RVSM	FL150	13000ft	Westbound	Even FL
Class	C	C	A	G	FL290-FL410	Static Values		Eastbound	Odd FL
Vertical Limit	1000ft-SFC	FL150-1000ft	FL600-13000ft	UNL-FL600					

Navigation AIDS

Station	Type	Station ID	Frequency	Coordinates
Salalah	VOR/DME	SLL	112.800 MHz	N17.049813 / E54.115846

Communications

Ground / Airport			Radar		
OOSA_TWR	Salalah Tower	118.200 MHz	OOSA_APP	Salalah Approach	119.100 MHz
OOSA_GND	Salalah Ground	124.025 MHz			

Runway Information

RWY	LOC ID	ILS Frequency	Track	Int. Fix	ILS Alt.	CAT	Length m
07	IABA	108.700 MHz	071°	D16.0 ISW	3400ft	II	3997m
25	IABB	110.900 MHz	251°	D18.8 ISE	3200ft	II	3997m

SSR Codes

International	0301-0340
ACC/APP	0341-0377
Domestic	7300-7377
VFR/Local	0400-0477
Military	0501-0577

Departure Operations / SID

RWY	DAXAM	LADAR	MUTVA	SILTA
07	1Q / 1U / 1P / 1T	1Q / 1P	1Q / 1P	1Q / 1P
25*	1S / 1R / 1V	1S / 1R	1S / 1R	1S / 1R
Int. Alt	5000'			

* preferred runway up to 10kts tailwind component, most efficient traffic flow.

Arrival Operations / STAR

	ASTUN	DAXAM	KAPET	KAPOP	KIVEL	PUTRA	SILTA
07	1V						
25*	1U						

* Preferred runway up to 10kts tailwind component, most efficient traffic flow

Arrival Operations / Holdings - ACC RWY 07

	PAVEM	LADAR
TRK	218°	062°
Turn	Right	Right
Vmax	230kts	230kts
Inb Leg.	1 min	1 min
Alt.	13000-11000	6000-5000

Arrival Operations / Holdings - ACC RWY 07

	PAVEM	DAXAM
TRK	111°	070°
Turn	Left	Left
Vmax	230kts	230kts
Inb Leg.	1 min	1 min
Alt.	13000-11000	10000-8000

