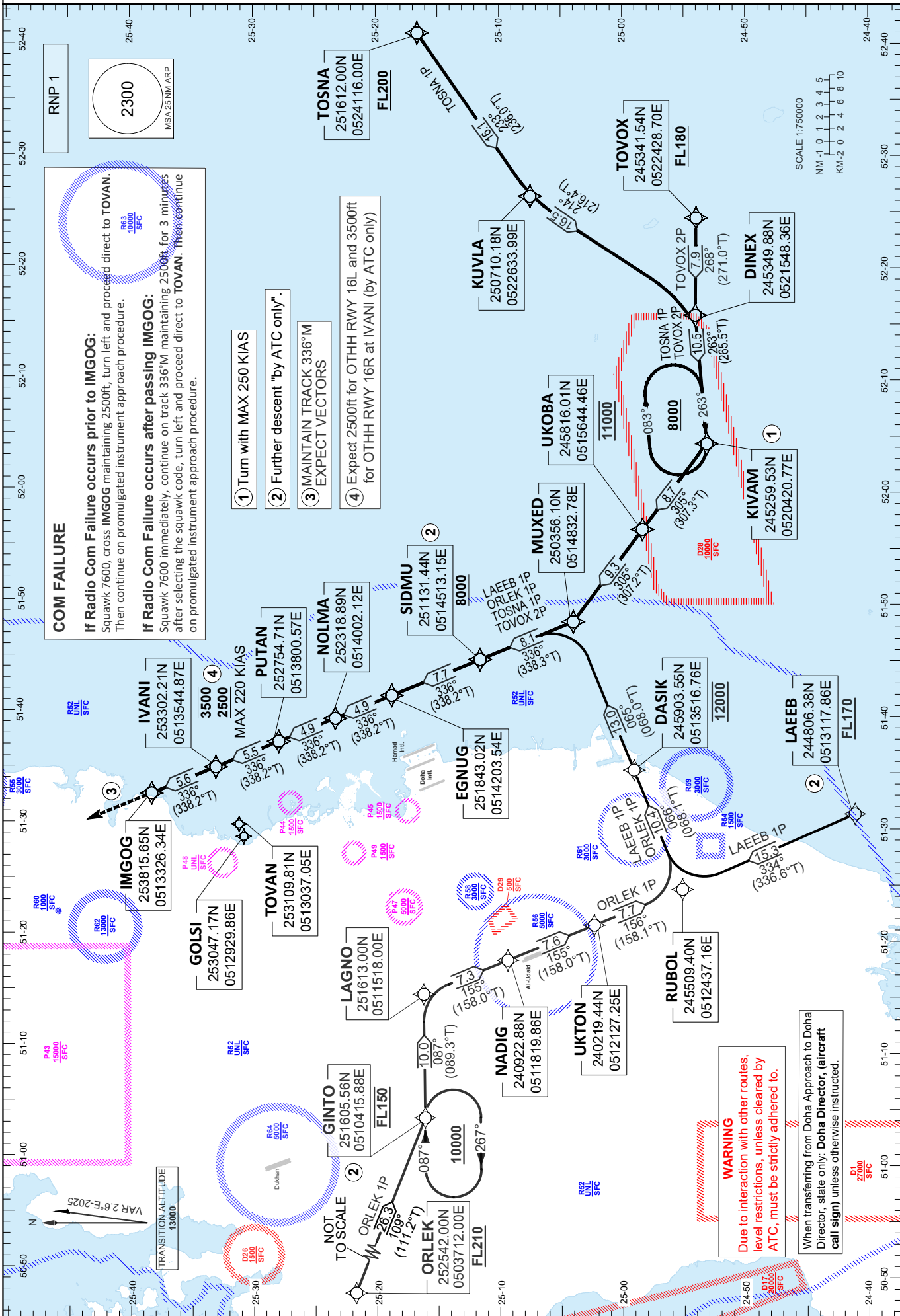


**STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO**

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR SOUTH 120.675 / 119.15
DOHA APP EAST 124.775 / 120.60
DOHA DIRECTOR EAST 119.40 / 121.125
HAMAD ARRIVAL INFORMATION 126.825
HAMAD TWR WEST 118.025 / 118.225
HAMAD TWR EAST 118.525 / 118.225

**DOHA/Hamad Intl. (OTHH) RNP
RWY 16L/R
LAEEB 1P / ORLEK 1P /
TOSNA 1P / TOVOX 2P**



STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAODOHA/Hamad Intl.(OTHH)
RNP RWY 16L/R
LAEEB 1P / ORLEK 1P / TOSNA 1P / TOVOX 2P

TABULAR DESCRIPTION

RNP STAR LAEEB 1P

Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/TCH(ft)	Navigation Specification
1	IF	LAEEB	-	-	-2.6	-	-	+FL170	-	-	RNP 1
2	TF	RUBOL	-	334 (336.6)	-2.6	15.3	-	-	-	-	RNP 1
3	TF	DASIK	-	066 (068.1)	-2.6	10.4	-	@12000	-	-	RNP 1
4	TF	MUXED	-	065 (068.0)	-2.6	13.0	-	-	-	-	RNP 1
5	TF	SIDMU	-	336 (338.3)	-2.6	8.1	-	+8000	-	-	RNP 1
6	TF	EGNUG	-	336 (338.2)	-2.6	7.7	-	-	-	-	RNP 1
7	TF	NOLMA	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
8	TF	PUTAN	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
9	TF	IVANI	-	336 (338.2)	-2.6	5.5	-	+2500/-3500	-220	-	RNP 1
10	TF	IMGOG	-	336 (338.2)	-2.6	5.6	-	-	-	-	RNP 1
11	FM	IMGOG	-	336 (338.2)	-2.6	-	-	-	-	-	RNP 1
Remarks		Further descent after LAEEB and SIDMU by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only).									

RNP STAR ORLEK 1P

Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/TCH(ft)	Navigation Specification
1	IF	ORLEK	-	-	-2.6	-	-	+FL210	-	-	RNP 1
2	TF	GINTO	-	109 (111.2)	-2.6	26.3	-	@FL150	-	-	RNP 1
3	TF	LAGNO	-	087 (089.3)	-2.6	10.0	-	-	-	-	RNP 1
4	TF	NADIG	-	155 (158.0)	-2.6	7.3	-	-	-	-	RNP 1
5	TF	UKTON	-	155 (158.0)	-2.6	7.6	-	-	-	-	RNP 1
6	TF	RUBOL	-	156 (158.1)	-2.6	7.7	-	-	-	-	RNP 1
7	TF	DASIK	-	066 (068.1)	-2.6	10.4	-	@12000	-	-	RNP 1
8	TF	MUXED	-	065 (068.0)	-2.6	13.0	-	-	-	-	RNP 1
9	TF	SIDMU	-	336 (338.3)	-2.6	8.1	-	+8000	-	-	RNP 1
10	TF	EGNUG	-	336 (338.2)	-2.6	7.7	-	-	-	-	RNP 1
11	TF	NOLMA	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
12	TF	PUTAN	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
13	TF	IVANI	-	336 (338.2)	-2.6	5.5	-	+2500/-3500	-220	-	RNP 1
14	TF	IMGOG	-	336 (338.2)	-2.6	5.6	-	-	-	-	RNP 1
15	FM	IMGOG	-	336 (338.2)	-2.6	-	-	-	-	-	RNP 1
Remarks		Further descent after GINTO and SIDMU by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only).									

RNP STAR TOSNA 1P

Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/TCH(ft)	Navigation Specification
1	IF	TOSNA	-	-	-2.6	-	-	+FL200	-	-	RNP 1
2	TF	KUVLA	-	233 (236.0)	-2.6	16.1	-	-	-	-	RNP 1
3	TF	DINEX	-	214 (216.4)	-2.6	16.5	-	-	-	-	RNP 1
4	TF	KIVAM	-	263 (265.5)	-2.6	10.5	-	-	-250	-	RNP 1
5	TF	UKOBA	-	305 (307.3)	-2.6	8.7	-	@11000	-	-	RNP 1
6	TF	MUXED	-	305 (307.2)	-2.6	9.3	-	-	-	-	RNP 1
7	TF	SIDMU	-	336 (338.3)	-2.6	8.1	-	+8000	-	-	RNP 1
8	TF	EGNUG	-	336 (338.2)	-2.6	7.7	-	-	-	-	RNP 1
9	TF	NOLMA	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
10	TF	PUTAN	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
11	TF	IVANI	-	336 (338.2)	-2.6	5.5	-	+2500/-3500	-220	-	RNP 1
12	TF	IMGOG	-	336 (338.2)	-2.6	5.6	-	-	-	-	RNP 1
13	FM	IMGOG	-	336 (338.2)	-2.6	-	-	-	-	-	RNP 1
Remarks		Further descent after SIDMU by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only).									

RNP STAR TOVOX 2P											
Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/TCH(ft)	Navigation Specification
1	IF	TOVOX	-	-	-2.6	-	-	@FL180	-	-	RNP 1
2	TF	DINEX	-	268 (271.0)	-2.6	7.9	-	-	-	-	RNP 1
3	TF	KIVAM	-	263 (265.5)	-2.6	10.5	-	-	-250	-	RNP 1
4	TF	UKOBA	-	305 (307.3)	-2.6	8.7	-	@11000	-	-	RNP 1
5	TF	MUXED	-	305 (307.2)	-2.6	9.3	-	-	-	-	RNP 1
6	TF	SIDMU	-	336 (338.3)	-2.6	8.1	-	+8000	-	-	RNP 1
7	TF	EGNUG	-	336 (338.2)	-2.6	7.7	-	-	-	-	RNP 1
8	TF	NOLMA	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
9	TF	PUTAN	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
10	TF	IVANI	-	336 (338.2)	-2.6	5.5	-	+2500/-3500	-220	-	RNP 1
11	TF	IMGOG	-	336 (338.2)	-2.6	5.6	-	-	-	-	RNP 1
12	FM	IMGOG	-	336 (338.2)	-2.6	-	-	-	-	-	RNP 1
Remarks		Further descent after SIDMU by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only).									

WAYPOINT LIST

RNP STAR LAEEB 1P / ORLEK 1P / TOSNA 1P / TOVOX 2P	
Waypoint Identifier	Coordinates
TOSNA	251612.00N 0524116.00E
KUVLA	250710.18N 0522633.99E
DINEX	245349.88N 0521548.36E
KIVAM	245259.53N 0520420.77E
UKOBA	245816.01N 0515644.46E
MUXED	250356.10N 0514832.78E
SIDMU	251131.44N 0514513.15E
EGNUG	251843.02N 0514203.54E
NOLMA	252318.89N 0514002.12E
PUTAN	252754.71N 0513800.57E
IVANI	253302.21N 0513544.87E

RNP STAR LAEEB 1P / ORLEK 1P / TOSNA 1P / TOVOX 2P	
Waypoint Identifier	Coordinates
IMGOG	253815.65N 0513326.34E
TOVOX	245341.54N 0522428.70E
LAEEB	244106.38N 0513117.86E
RUBOL	245509.40N 0512437.16E
DASIK	245903.55N 0513516.76E
ORLEK	252542.00N 0503712.00E
GINTO	251605.56N 0510415.88E
LAGNO	251613.00N 0511518.00E
NADIG	250922.88N 0511819.86E
UKTON	250219.44N 0512127.25E

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