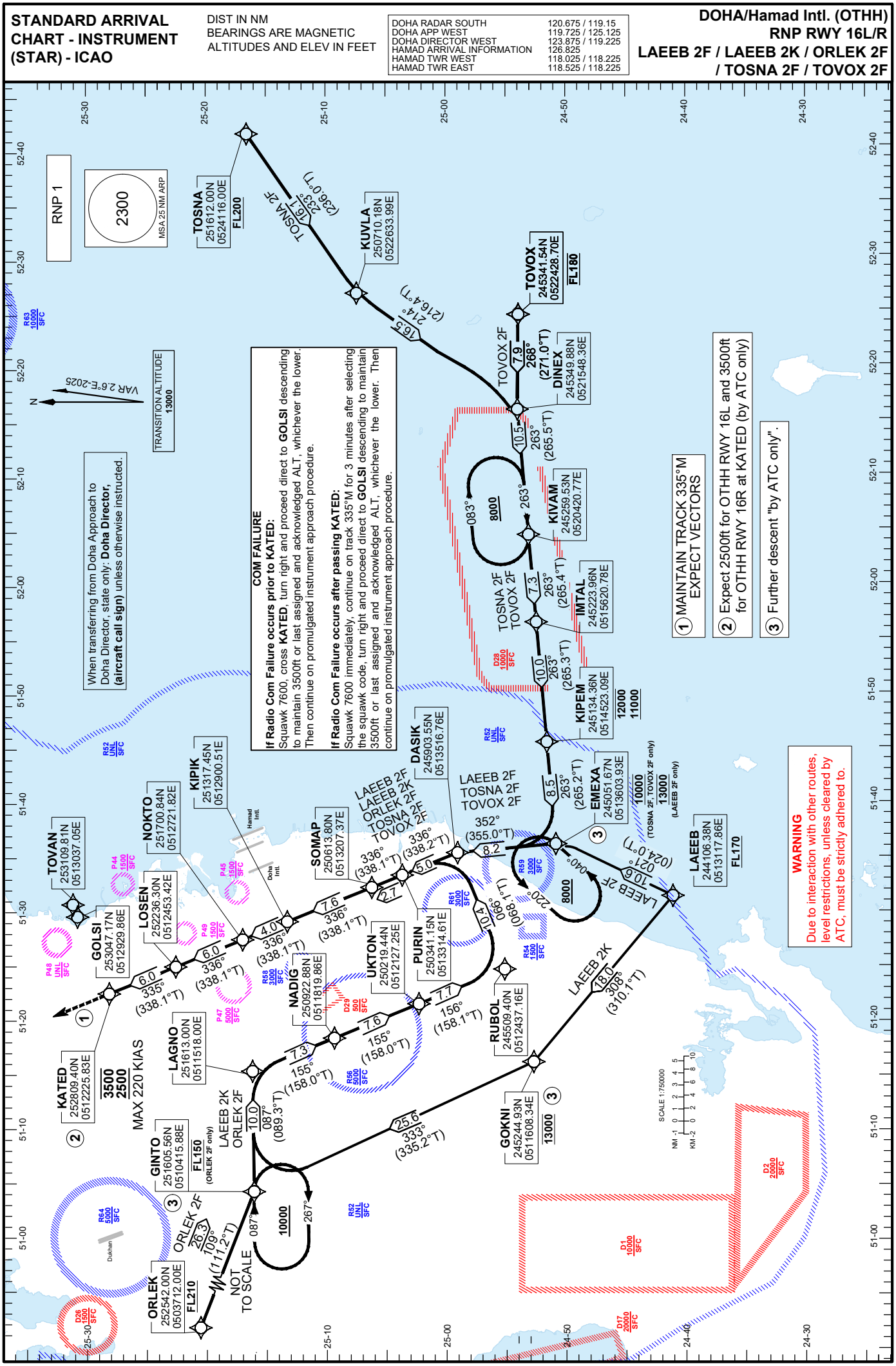
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR SOUTH	120.675 / 119.15
DOHA APP WEST	119.725 / 125.125
DOHA DIRECTOR WEST	123.875 / 119.225
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 2F / LAEEB 2K / ORLEK 2F / TOSNA 2F / TOVOX 2F



STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DOHA/Hamad Intl.(OTHH)
RNP RWY 16L/R
LAEEB 2F / LAEEB 2K / ORLEK 2F / TOSNA 2F / TOVOX 2F

TABULAR DESCRIPTION

RNP STAR LAEEB 2F

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	EMEXA	-	021 (024.0)	-2.6	10.6	-	@13000	-	-	RNP 1
3	TF	DASIK	-	352 (355.0)	-2.6	8.2	-	-	-	-	RNP 1
4	TF	PURIN	-	336 (338.2)	-2.6	5.0	-	-	-	-	RNP 1
5	TF	SOMAP	-	336 (338.1)	-2.6	2.7	-	-	-	-	RNP 1
6	TF	KIPIK	-	336 (338.1)	-2.6	7.6	-	-	-	-	RNP 1
7	TF	NOKTO	-	336 (338.1)	-2.6	4.0	-	-	-	-	RNP 1
8	TF	LOSEN	-	336 (338.1)	-2.6	6.0	-	-	-	-	RNP 1
9	TF	KATED	-	335 (338.1)	-2.6	6.0	-	+2500/-3500	-220	-	RNP 1
10	FM	KATED	-	335 (338.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Further descent after EMEXA by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at KATED (by ATC only).										

RNP STAR LAEEB 2K

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	GOKNI	-	308 (310.1)	-2.6	18.0	-	@13000	-	-	RNP 1
3	TF	GINTO	-	333 (335.2)	-2.6	25.6	-	-	-	-	RNP 1
4	TF	LAGNO	-	087 (089.3)	-2.6	10.0	-	-	-	-	RNP 1
5	TF	NADIG	-	155 (158.0)	-2.6	7.3	-	-	-	-	RNP 1
6	TF	UKTON	-	155 (158.0)	-2.6	7.6	-	-	-	-	RNP 1
7	TF	RUBOL	-	156 (158.1)	-2.6	7.7	-	-	-	-	RNP 1
8	TF	DASIK	-	066 (068.1)	-2.6	10.4	-	-	-	-	RNP 1
9	TF	PURIN	-	336 (338.2)	-2.6	5.0	-	-	-	-	RNP 1
10	TF	SOMAP	-	336 (338.1)	-2.6	2.7	-	-	-	-	RNP 1
11	TF	KIPIK	-	336 (338.1)	-2.6	7.6	-	-	-	-	RNP 1
12	TF	NOKTO	-	336 (338.1)	-2.6	4.0	-	-	-	-	RNP 1
13	TF	LOSEN	-	336 (338.1)	-2.6	6.0	-	-	-	-	RNP 1
14	TF	KATED	-	335 (338.1)	-2.6	6.0	-	+2500/-3500	-220	-	RNP 1
15	FM	KATED	-	335 (338.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Further descent after GOKNI by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at KATED (by ATC only).										

RNP STAR ORLEK 2F

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	-	-	-	-	RNP 1
8	TF	PURIN	-	336 (338.2)	-2.6	5.0	-	-	-	-	RNP 1
9	TF	SOMAP	-	336 (338.1)	-2.6	2.7	-	-	-	-	RNP 1
10	TF	KIPIK	-	336 (338.1)	-2.6	7.6	-	-	-	-	RNP 1
11	TF	NOKTO	-	336 (338.1)	-2.6	4.0	-	-	-	-	RNP 1
12	TF	LOSEN	-	336 (338.1)	-2.6	6.0	-	-	-	-	RNP 1
13	TF	KATED	-	335 (338.1)	-2.6	6.0	-	+2500/-3500	-220	-	RNP 1
14	FM	KATED	-	335 (338.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at KATED (by ATC only).										

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RNP STAR TOSNA 2F

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	-	-	-	-	RNP 1
5	TF	IMTAL	-	263 (265.4)	-2.6	7.3	-	-	-	-	RNP 1
6	TF	KIPEM	-	263 (265.3)	-2.6	10.0	-	+11000/-12000	-	-	RNP 1
7	TF	EMEXA	-	263 (265.2)	-2.6	8.5	-	@10000	-	-	RNP 1
8	TF	DASIK	-	352 (355.0)	-2.6	8.2	-	-	-	-	RNP 1
9	TF	PURIN	-	336 (338.2)	-2.6	5.0	-	-	-	-	RNP 1
10	TF	SOMAP	-	336 (338.1)	-2.6	2.7	-	-	-	-	RNP 1
11	TF	KIPIK	-	336 (338.1)	-2.6	7.6	-	-	-	-	RNP 1
12	TF	NOKTO	-	336 (338.1)	-2.6	4.0	-	-	-	-	RNP 1
13	TF	LOSEN	-	336 (338.1)	-2.6	6.0	-	-	-	-	RNP 1
14	TF	KATED	-	335 (338.1)	-2.6	6.0	-	+2500/-3500	-220	-	RNP 1
15	FM	KATED	-	335 (338.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Further descent after EMEXA by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at KATED (by ATC only).										

RNP STAR TOVOX 2F

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	-	-	-	-	RNP 1
4	TF	IMTAL	-	263 (265.4)	-2.6	7.3	-	-	-	-	RNP 1
6	TF	KIPEM	-	263 (265.3)	-2.6	10.0	-	+11000/-12000	-	-	RNP 1
6	TF	EMEXA	-	263 (265.2)	-2.6	8.5	-	@10000	-	-	RNP 1
7	TF	DASIK	-	352 (355.0)	-2.6	8.2	-	-	-	-	RNP 1
8	TF	PURIN	-	336 (338.2)	-2.6	5.0	-	-	-	-	RNP 1
9	TF	SOMAP	-	336 (338.1)	-2.6	2.7	-	-	-	-	RNP 1
10	TF	KIPIK	-	336 (338.1)	-2.6	7.6	-	-	-	-	RNP 1
11	TF	NOKTO	-	336 (338.1)	-2.6	4.0	-	-	-	-	RNP 1
12	TF	LOSEN	-	336 (338.1)	-2.6	6.0	-	-	-	-	RNP 1
13	TF	KATED	-	335 (338.1)	-2.6	6.0	-	+2500/-3500	-220	-	RNP 1
14	FM	KATED	-	335 (338.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Further descent after EMEXA by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at KATED (by ATC only).										

WAYPOINT LIST

RNP STAR LAEEB 2F / LAEEB 2K / ORLEK 2F / TOSNA 2F / TOVOX 2F

Waypoint Identifier	Coordinates
LAEEB	244106.38N 0513117.86E
EMEXA	245051.67N 0513603.93E
DASIK	245903.55N 0513516.76E
PURIN	250341.15N 0513314.61E
SOMAP	250613.80N 0513207.37E
KIPIK	251317.45N 0512900.51E
NOKTO	251700.84N 0512721.82E
LOSEN	252236.30N 0512453.42E
KATED	252809.40N 0512225.83E
ORLEK	252542.00N 0503712.00E
GOKNI	245244.93N 0511608.34E
GINTO	251605.56N 0510415.88E

RNP STAR LAEEB 2F / LAEEB 2K / ORLEK 2F / TOSNA 2F / TOVOX 2F

Waypoint Identifier	Coordinates
LAGNO	251613.00N 0511518.00E
NADIG	250922.88N 0511819.86E
UKTON	250219.44N 0512127.25E
RUBOL	245509.40N 0512437.16E
TOSNA	251612.00N 0524116.00E
KUVLA	250710.18N 0522633.99E
DINEX	245349.88N 0521548.36E
KIVAM	245259.53N 0520420.77E
IMTAL	245223.96N 0515620.78E
KIPEM	245134.36N 0514523.09E
TOVOX	245341.54N 0522428.70E

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