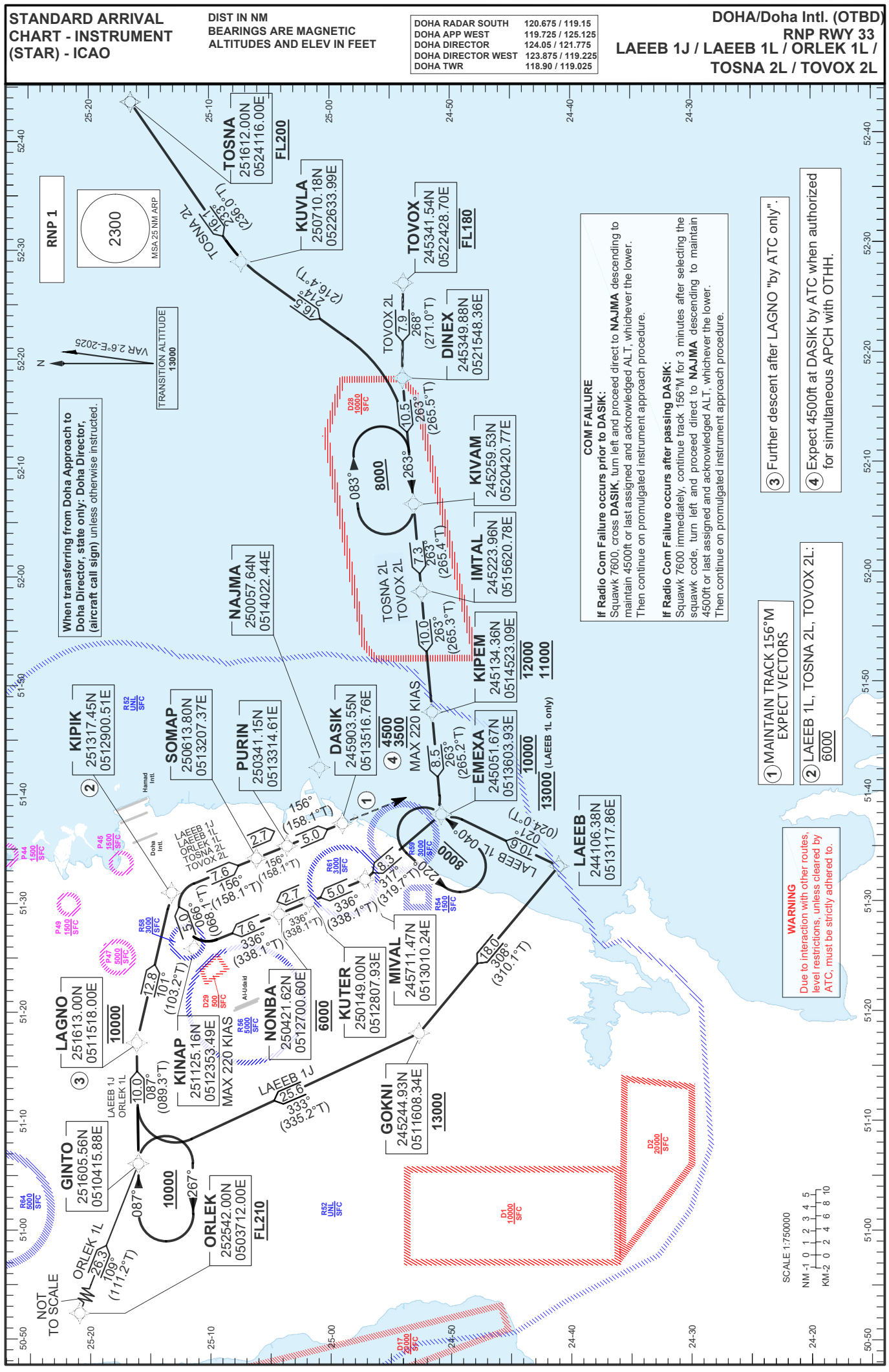
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

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	124.05 / 121.775
DOHA DIRECTOR WEST	123.875 / 119.225
DOHA TWR	118.90 / 119.025

DOHA/Doha Intl. (OTBD)
RNP RWY 33
LAEEB 1J / LAEEB 1L / ORLEK 1L / TOSNA 2L / TOVOX 2L



STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DOHA/Doha Intl.(OTBD)
RNP RWY 33
LAEEB 1J / LAEEB 1L / ORLEK 1L / TOSNA 2L / TOVOX 2L

TABULAR DESCRIPTION

RNP STAR LAEEB 1J

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	-	-	-	-	-	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	-	@10000	-	-	RNP 1
5	TF	KIPIK	-	101 (103.2)	-2.6	12.8	-	-	-	-	RNP 1
6	TF	SOMAP	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
7	TF	PURIN	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
8	TF	DASIK	-	156 (158.1)	-2.6	5.0	-	+3500/-4500	-220	-	RNP 1
9	FM	DASIK	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1

Remark	Further descent after LAGNO by ATC only. Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH.

RNP STAR LAEEB 1L

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	-	-	-	-	-	RNP 1
2	TF	EMEXA	-	021 (024.0)	-2.6	10.6	-	@13000	-	-	RNP 1
3	TF	MIVAL	-	317 (319.7)	-2.6	8.3	-	-	-	-	RNP 1
4	TF	KUTER	-	336 (338.1)	-2.6	5.0	-	-	-	-	RNP 1
5	TF	NONBA	-	336 (338.1)	-2.6	2.7	-	@6000	-	-	RNP 1
6	TF	KINAP	-	336 (338.1)	-2.6	7.6	-	-	-220	-	RNP 1
7	TF	KIPIK	-	066 (068.1)	-2.6	5.0	-	@6000	-	-	RNP 1
8	TF	SOMAP	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
9	TF	PURIN	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
10	TF	DASIK	-	156 (158.1)	-2.6	5.0	-	+3500/-4500	-220	-	RNP 1
11	FM	DASIK	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1

Remark	Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH.

RNP STAR ORLEK 1L

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	-	-	-	-	RNP 1
3	TF	LAGNO	-	087 (089.3)	-2.6	10.0	-	@10000	-	-	RNP 1
4	TF	KIPIK	-	101 (103.2)	-2.6	12.8	-	-	-	-	RNP 1
5	TF	SOMAP	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
6	TF	PURIN	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
7	TF	DASIK	-	156 (158.1)	-2.6	5.0	-	+3500/-4500	-220	-	RNP 1
8	FM	DASIK	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1

Remark	Further descent after LAGNO by ATC only. Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH.

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RNP STAR TOSNA 2L

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	MIVAL	-	317 (319.7)	-2.6	8.3	-	-	-	-	RNP 1
9	TF	KUTER	-	336 (338.1)	-2.6	5.0	-	-	-	-	RNP 1
10	TF	NONBA	-	336 (338.1)	-2.6	2.7	-	@6000	-	-	RNP 1
11	TF	KINAP	-	336 (338.1)	-2.6	7.6	-	-	-220	-	RNP 1
12	TF	KIPIK	-	066 (068.1)	-2.6	5.0	-	@6000	-	-	RNP 1
13	TF	SOMAP	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
14	TF	PURIN	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
15	TF	DASIK	-	156 (158.1)	-2.6	5.0	-	+3500/-4500	-220	-	RNP 1
16	FM	DASIK	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1
Remark	Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH.										

RNP STAR TOVOX 2L

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
5	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	MIVAL	-	317 (319.7)	-2.6	8.3	-	-	-	-	RNP 1
8	TF	KUTER	-	336 (338.1)	-2.6	5.0	-	-	-	-	RNP 1
9	TF	NONBA	-	336 (338.1)	-2.6	2.7	-	@6000	-	-	RNP 1
10	TF	KINAP	-	336 (338.1)	-2.6	7.6	-	-	-220	-	RNP 1
11	TF	KIPIK	-	066 (068.1)	-2.6	5.0	-	@6000	-	-	RNP 1
12	TF	SOMAP	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
13	TF	PURIN	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
14	TF	DASIK	-	156 (158.1)	-2.6	5.0	-	+3500/-4500	-220	-	RNP 1
15	FM	DASIK	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1
Remark	Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH.										

WAYPOINT LIST

RNP STAR LAEEB 1L / LAEEB 1J / ORLEK 1L / TOSNA 2L / TOVOX 2L

Waypoint Identifier	Coordinates
LAEEB	244106.38N 0513117.86E
GOKNI	245244.93N 0511608.34E
EMEXA	245051.67N 0513603.93E
MIVAL	245711.47N 0513010.24E
KUTER	250149.00N 0512807.93E
NONBA	250421.62N 0512700.60E
KINAP	251125.16N 0512353.49E
KIPIK	251317.45N 0512900.51E
SOMAP	250613.80N 0513207.37E
PURIN	250341.15N 0513314.61E
DASIK	245903.55N 0513516.76E

RNP STAR LAEEB 1L / LAEEB 1J / ORLEK 1L / TOSNA 2L / TOVOX 2L

Waypoint Identifier	Coordinates
ORLEK	252542.00N 0503712.00E
GINTO	251605.56N 0510415.88E
LAGNO	251613.00N 0511518.00E
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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