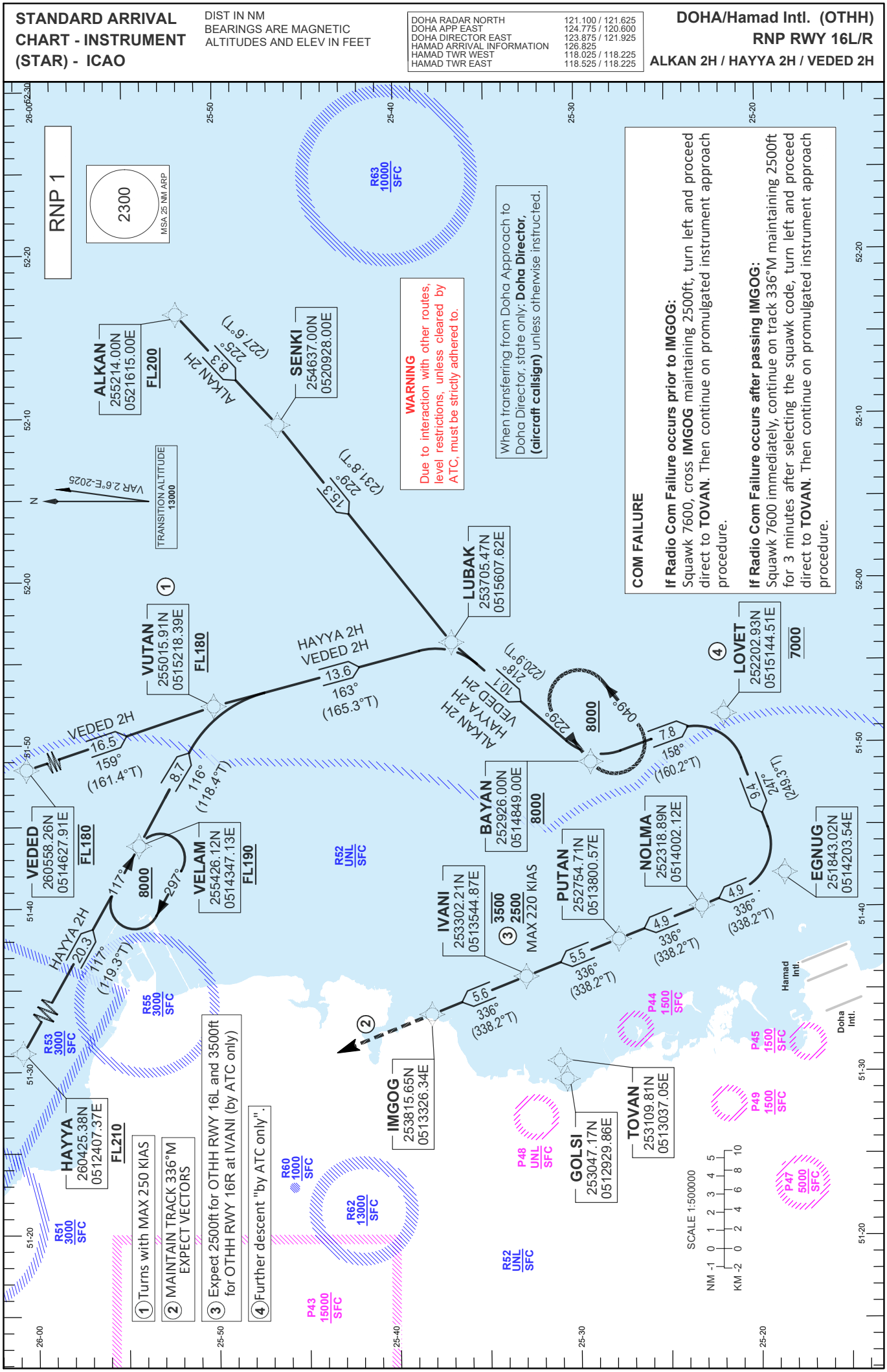
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR NORTH	121.100 / 121.625
DOHA APP EAST	124.775 / 120.600
DOHA DIRECTOR EAST	123.875 / 121.925
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
ALKAN 2H / HAYYA 2H / VEDED 2H



STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

DOHA/Hamad Intl.(OTHH)
RNP RWY 16L/R
ALKAN 2H / HAYYA 2H / VEDED 2H

TABULAR DESCRIPTION

RNP STAR ALKAN 2H

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	ALKAN	-	-	-2.6	-	-	+FL200	-	-	RNP 1
2	TF	SENKI	-	225 (227.6)	-2.6	8.3	-	-	-	-	RNP 1
3	TF	LUBAK	-	229 (231.8)	-2.6	15.3	-	-	-	-	RNP 1
4	TF	BAYAN	-	218 (220.9)	-2.6	10.1	-	+8000	-	-	RNP 1
5	TF	LOVET	-	158 (160.2)	-2.6	7.8	-	@7000	-	-	RNP 1
6	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	-	-	-	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 LOVET by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only).										

RNP STAR HAYYA 2H

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	HAYYA	-	-	-2.6	-	-	+FL210	-	-	RNP 1
2	TF	VELAM	-	117 (119.3)	-2.6	20.3	-	+FL190	-	-	RNP 1
3	TF	VUTAN	-	116 (118.4)	-2.6	8.7	-	+FL180	-	-	RNP 1
4	TF	LUBAK	-	163 (165.3)	-2.6	13.6	-	-	-	-	RNP 1
5	TF	BAYAN	-	218 (220.9)	-2.6	10.1	-	+8000	-	-	RNP 1
6	TF	LOVET	-	158 (160.2)	-2.6	7.8	-	@7000	-	-	RNP 1
7	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	-	-	-	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 LOVET by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only).										

RNP STAR VEDED 2H

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	VEDED	-	-	-2.6	-	-	@FL180	-	-	RNP 1
2	TF	VUTAN	-	159 (161.4)	-2.6	16.5	-	+FL180	-	-	RNP 1
3	TF	LUBAK	-	163 (165.3)	-2.6	13.6	-	-	-	-	RNP 1
4	TF	BAYAN	-	218 (220.9)	-2.6	10.1	-	+8000	-	-	RNP 1
5	TF	LOVET	-	158 (160.2)	-2.6	7.8	-	@7000	-	-	RNP 1
6	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	-	-	-	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 LOVET by ATC only. Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only).										

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WAYPOINT LIST

RNP STAR ALKAN 2H / HAYYA 2H / VEDED 2H	
Waypoint Identifier	**Coordinates**
ALKAN	255214.00N 0521615.00E
SENKI	254637.00N 0520928.00E
LUBAK	253705.47N 0515607.62E
BAYAN	252926.00N 0514849.00E
LOVET	252202.93N 0515144.51E
EGNUG	251843.02N 0514203.54E
NOLMA	252318.89N 0514002.12E
PUTAN	252754.71N 0513800.57E
IVANI	253302.21N 0513544.87E
IMGOG	253815.65N 0513326.34E
HAYYA	260425.38N 0512407.37E
VELAM	255426.12N 0514347.13E
VUTAN	255015.91N 0515218.39E
VEDED	260558.26N 0514627.91E

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