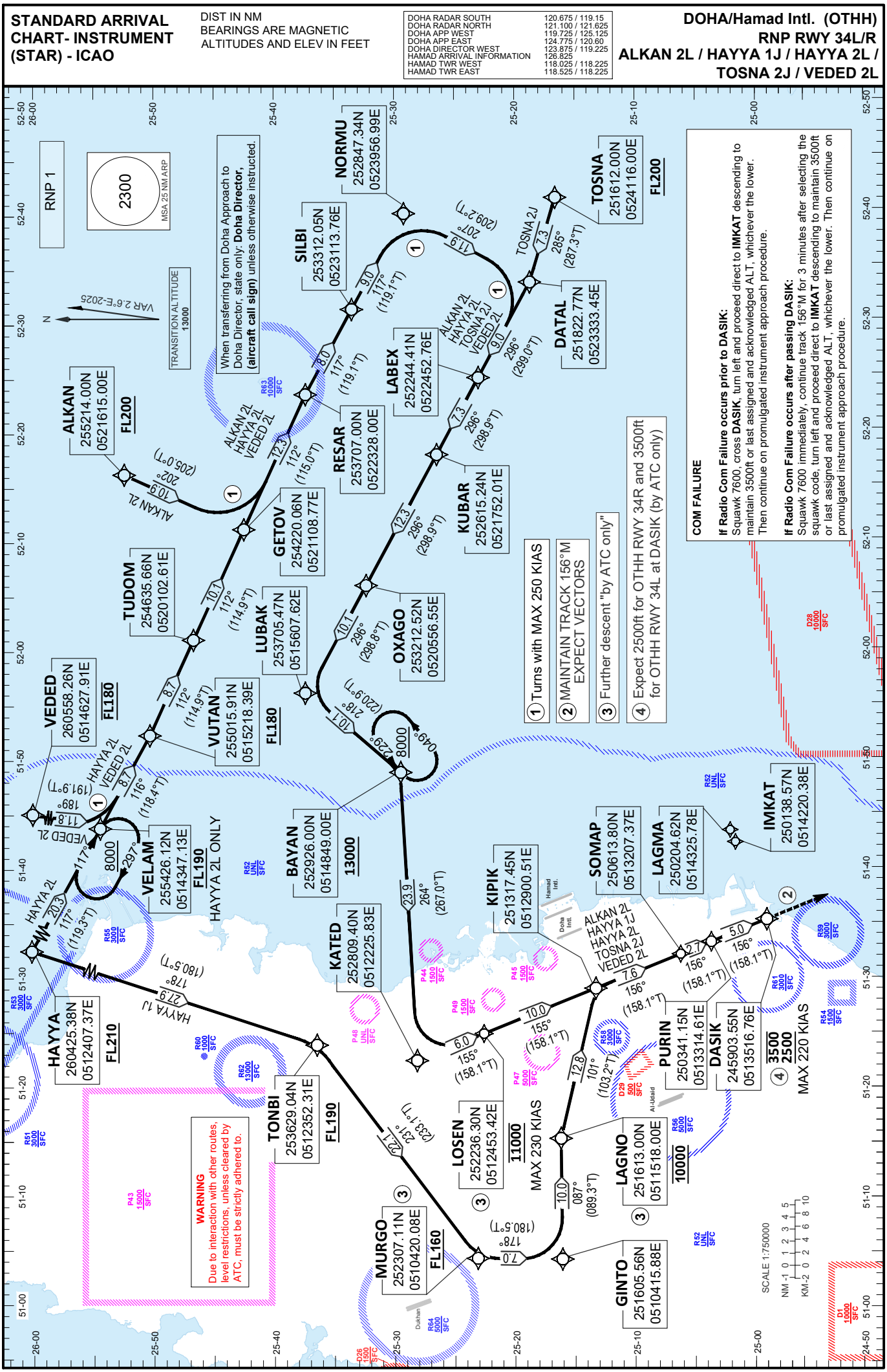
STANDARD ARRIVAL CHART- INSTRUMENT (STAR) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR SOUTH	120.675 / 119.15
DOHA RADAR NORTH	121.100 / 121.625
DOHA APP WEST	119.725 / 125.125
DOHA APP EAST	124.775 / 120.60
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 34L/R
ALKAN 2L / HAYYA 1J / HAYYA 2L / TOSNA 2J / VEDED 2L



STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DOHA/Hamad Intl.(OTHH)
RNP RWY 34L/R
ALKAN 2L / HAYYA 1J/ HAYYA 2L / TOSNA 2J / VEDED 2L

TABULAR DESCRIPTION

RNP STAR ALKAN 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	**ALKAN**	**-**	-	-2.6	-	**-**	+FL200	-	**-**	RNP 1
2	TF	**GETOV**	**-**	202 (205.0)	-2.6	10.9	-	-	-250	**-**	RNP 1
3	TF	**RESAR**	-	112 (115.0)	-2.6	12.3	-	-	-	-	RNP 1
4	TF	**SILBI**	-	117 (119.1)	-2.6	8.0	-	-	-	-	RNP 1
5	TF	**NORMU**	-	117 (119.1)	-2.6	9.0	-	-	-250	-	RNP 1
6	TF	**DATAL**	-	207 (209.2)	-2.6	11.9	-	-	-250	-	RNP 1
7	TF	**LABEX**	-	296 (299.0)	-2.6	9.0	-	-	-	-	RNP 1
8	TF	**KUBAR**	-	296 (298.9)	-2.6	7.3	-	-	-	-	RNP 1
9	TF	**OXAGO**	-	296 (298.9)	-2.6	12.3	-	-	-	-	RNP 1
10	TF	**LUBAK**	-	296 (298.8)	-2.6	10.1	-	-	-	-	RNP 1
11	TF	**BAYAN**	-	218 (220.9)	-2.6	10.1	-	+13000	-	-	RNP 1
12	TF	**KATED**	-	264 (267.0)	-2.6	23.9	-	-	-	-	RNP 1
13	TF	**LOSEN**	-	155 (158.1)	-2.6	6.0	-	@11000	-230	-	RNP 1
14	TF	**KIPIK**	-	155 (158.1)	-2.6	10.0	-	-	-	-	RNP 1
15	TF	**SOMAP**	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
16	TF	**PURIN**	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
17	TF	**DASIK**	-	156 (158.1)	-2.6	5.0	-	+2500/-3500	-220	-	RNP 1
18	FM	**DASIK**	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Further descent after LOSEN by ATC only. Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at DASIK (by ATC only).										

RNP STAR HAYYA 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	**HAYYA**	**-**	-	-2.6	-	**-**	+FL210	-	**-**	RNP 1
2	TF	**TONBI**	**-**	178 (180.5)	-2.6	27.9	-	+FL190	-	**-**	RNP 1
3	TF	**MURGO**	-	231 (233.1)	-2.6	22.1	-	+FL160	-	-	RNP 1
4	TF	**GINTO**	-	178 (180.5)	-2.6	7.0	-	-	-	-	RNP 1
5	TF	**LAGNO**	-	087 (089.3)	-2.6	10.0	-	@10000	-	-	RNP 1
6	TF	**KIPIK**	-	101(103.2)	-2.6	12.8	-	-	-	-	RNP 1
7	TF	**SOMAP**	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
8	TF	**PURIN**	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
9	TF	**DASIK**	-	156 (158.1)	-2.6	5.0	-	+2500/-3500	-220	-	RNP 1
10	FM	**DASIK**	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Further descent after MURGO and LAGNO by ATC only. Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at DASIK (by ATC only).										

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RNP STAR HAYYA 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	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	TUDOM	-	112 (114.9)	-2.6	8.7	-	-	-	-	RNP 1
5	TF	GETOV	-	112 (114.9)	-2.6	10.1	-	-	-	-	RNP 1
6	TF	RESAR	-	112 (115.0)	-2.6	12.3	-	-	-	-	RNP 1
7	TF	SILBI	-	117 (119.1)	-2.6	8.0	-	-	-	-	RNP 1
8	TF	NORMU	-	117 (119.1)	-2.6	9.0	-	-	-250	-	RNP 1
9	TF	DATAL	-	207 (209.2)	-2.6	11.9	-	-	-250	-	RNP 1
10	TF	LABEX	-	296 (299.0)	-2.6	9.0	-	-	-	-	RNP 1
11	TF	KUBAR	-	296 (298.9)	-2.6	7.3	-	-	-	-	RNP 1
12	TF	OXAGO	-	296 (298.9)	-2.6	12.3	-	-	-	-	RNP 1
13	TF	LUBAK	-	296 (298.8)	-2.6	10.1	-	-	-	-	RNP 1
14	TF	BAYAN	-	218 (220.9)	-2.6	10.1	-	+13000	-	-	RNP 1
15	TF	KATED	-	264 (267.0)	-2.6	23.9	-	-	-	-	RNP 1
16	TF	LOSEN	-	155 (158.1)	-2.6	6.0	-	@11000	-230	-	RNP 1
17	TF	KIPIK	-	155 (158.1)	-2.6	10.0	-	-	-	-	RNP 1
18	TF	SOMAP	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
19	TF	PURIN	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
20	TF	DASIK	-	156 (158.1)	-2.6	5.0	-	+2500/-3500	-220	-	RNP 1
21	FM	DASIK	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks		Further descent after LOSEN by ATC only. Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at DASIK (by ATC only).									

RNP STAR TOSNA 2J

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	DATAL	-	285 (287.3)	-2.6	7.3	-	-	-	-	RNP 1
3	TF	LABEX	-	296 (299.0)	-2.6	9.0	-	-	-	-	RNP 1
4	TF	KUBAR	-	296 (298.9)	-2.6	7.3	-	-	-	-	RNP 1
5	TF	OXAGO	-	296 (298.9)	-2.6	12.3	-	-	-	-	RNP 1
6	TF	LUBAK	-	296 (298.8)	-2.6	10.1	-	-	-	-	RNP 1
7	TF	BAYAN	-	218 (220.9)	-2.6	10.1	-	+13000	-	-	RNP 1
8	TF	KATED	-	264 (267.0)	-2.6	23.9	-	-	-	-	RNP 1
9	TF	LOSEN	-	155 (158.1)	-2.6	6.0	-	@11000	-230	-	RNP 1
10	TF	KIPIK	-	155 (158.1)	-2.6	10.0	-		-	-	RNP 1
11	TF	SOMAP	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
12	TF	PURIN	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
13	TF	DASIK	-	156 (158.1)	-2.6	5.0	-	+2500/-3500	-220	-	RNP 1
14	FM	DASIK	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks		Further descent after LOSEN by ATC only. Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at DASIK (by ATC only).									

RNP STAR VEDED 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	**VEDED**	**-**	-	-2.6	-	**-**	@FL180	-	**-**	RNP 1
2	TF	**VELAM**	**-**	189 (191.9)	-2.6	11.8	-	-	-250	**-**	RNP 1
3	TF	**VUTAN**	-	116 (118.4)	-2.6	8.7	-	+FL180	-	-	RNP 1
4	TF	**TUDOM**	-	112 (114.9)	-2.6	8.7	-	-	-	-	RNP 1
5	TF	**GETOV**	-	112 (114.9)	-2.6	10.1	-	-	-	-	RNP 1
6	TF	**RESAR**	-	112 (115.0)	-2.6	12.3	-	-	-	-	RNP 1
7	TF	**SILBI**	-	117 (119.1)	-2.6	8.0	-	-	-	-	RNP 1
8	TF	**NORMU**	-	117 (119.1)	-2.6	9.0	-	-	-250	-	RNP 1
9	TF	**DATAL**	-	207 (209.2)	-2.6	11.9	-	-	-250	-	RNP 1
10	TF	**LABEX**	-	296 (299.0)	-2.6	9.0	-	-	-	-	RNP 1
11	TF	**KUBAR**	-	296 (298.9)	-2.6	7.3	-	-	-	-	RNP 1
12	TF	**OXAGO**	-	296 (298.9)	-2.6	12.3	-	-	-	-	RNP 1
13	TF	**LUBAK**	-	296 (298.8)	-2.6	10.1	-	-	-	-	RNP 1
14	TF	**BAYAN**	-	218 (220.9)	-2.6	10.1	-	+13000	-	-	RNP 1
15	TF	**KATED**	-	264 (267.0)	-2.6	23.9	-	-	-	-	RNP 1
16	TF	**LOSEN**	-	155 (158.1)	-2.6	6.0	-	@11000	-230	-	RNP 1
17	TF	**KIPIK**	-	155 (158.1)	-2.6	10.0	-	-	-	-	RNP 1
18	TF	**SOMAP**	-	156 (158.1)	-2.6	7.6	-	-	-	-	RNP 1
19	TF	**PURIN**	-	156 (158.1)	-2.6	2.7	-	-	-	-	RNP 1
20	TF	**DASIK**	-	156 (158.1)	-2.6	5.0	-	+2500/-3500	-220	-	RNP 1
21	FM	**DASIK**	-	156 (158.1)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Further descent after LOSEN by ATC only. Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at DASIK (by ATC only).										

WAYPOINT LIST

RNP STAR ALKAN 2L / HAYYA 1J / HAYYA 2L / TOSNA 2J / VEDED 2L

Waypoint Identifier	Coordinates
ALKAN	255214.00N 0521615.00E
GETOV	254220.06N 0521108.77E
RESAR	253707.00N 0522328.00E
SILBI	253312.05N 0523113.76E
NORMU	252847.34N 0523956.99E
DATAL	251822.77N 0523333.45E
LABEX	252244.41N 0522452.76E
KUBAR	252615.24N 0521752.01E
OXAGO	253212.52N 0520556.55E
LUBAK	253705.47N 0515607.62E
BAYAN	252926.00N 0514849.00E
KATED	252809.40N 0512225.83E
LOSEN	252236.30N 0512453.42E
KIPIK	251317.45N 0512900.51E

RNP STAR ALKAN 2L / HAYYA 1J / HAYYA 2L / TOSNA 2J / VEDED 2L

Waypoint Identifier	Coordinates
SOMAP	250613.80N 0513207.37E
PURIN	250341.15N 0513314.61E
DASIK	245903.55N 0513516.76E
HAYYA	260425.38N 0512407.37E
VELAM	255426.12N 0514347.13E
VUTAN	255015.91N 0515218.39E
TUDOM	254635.66N 0520102.61E
TOSNA	251612.00N 0524116.00E
VEDED	260558.26N 0514627.91E
TONBI	253629.04N 0512352.31E
MUROG	252307.11N 0510420.08E
GINTO	251605.56N 0510415.88E
LAGNO	251613.00N 0511518.00E

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