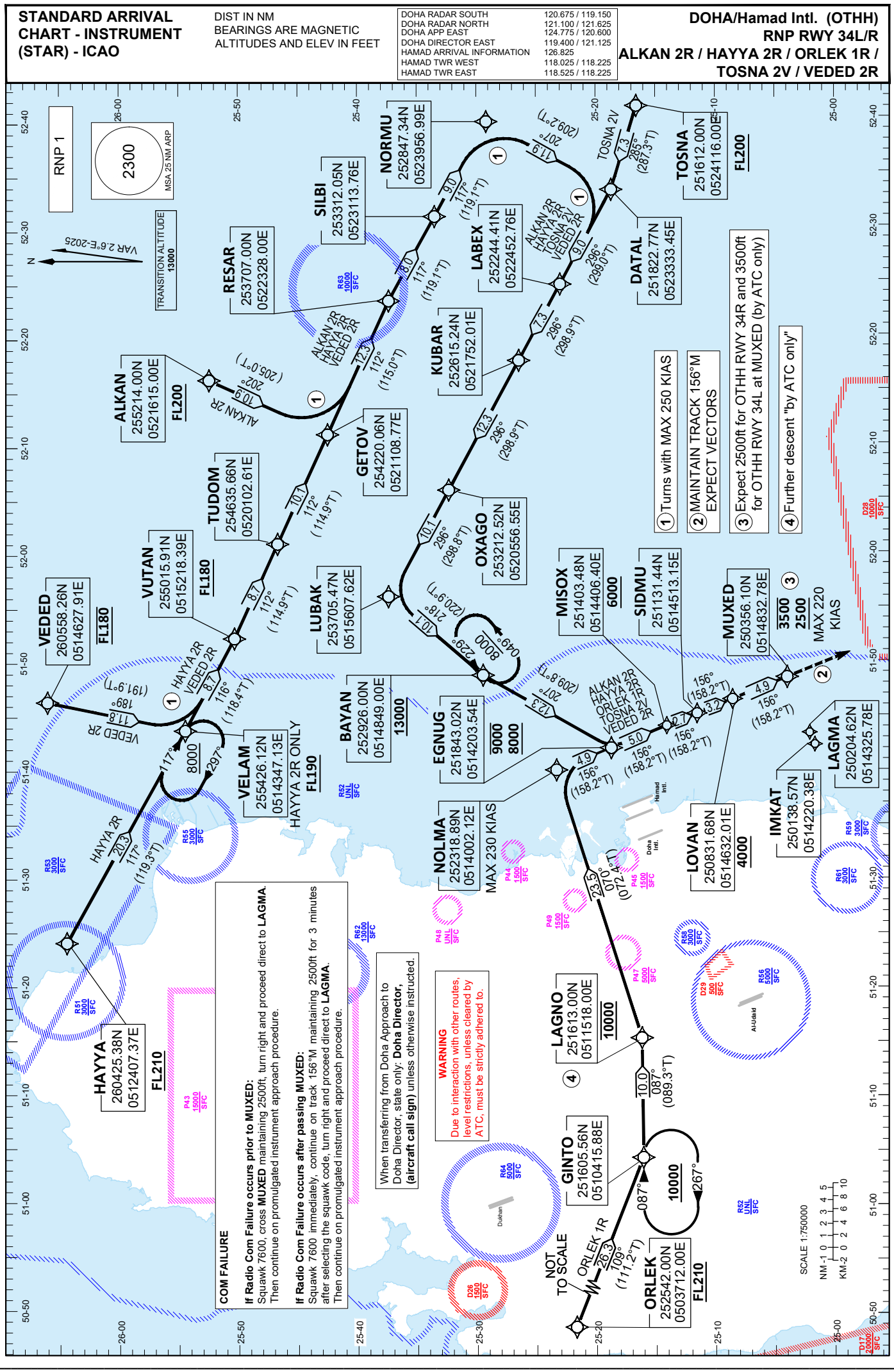
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR SOUTH	120.675 / 119.150
DOHA RADAR NORTH	121.100 / 121.625
DOHA APP EAST	124.775 / 120.600
DOHA DIRECTOR EAST	119.400 / 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 34L/R
ALKAN 2R / HAYYA 2R / ORLEK 1R / TOSNA 2V / VEDED 2R



STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

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

TABULAR DESCRIPTION

RNP STAR ALKAN 2R

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	EGNUG	-	207 (209.8)	-2.6	12.3	-	+8000/-9000	-	-	RNP 1
13	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
14	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
15	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
16	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
17	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks		Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).									

RNP STAR HAYYA 2R

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	EGNUG	-	207 (209.8)	-2.6	12.3	-	+8000/-9000	-	-	RNP 1
16	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
17	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
18	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
19	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
20	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks		Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).									

RNP STAR ORLEK 1R

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	NOLMA	-	070 (072.4)	-2.6	23.5	-	-	-230	-	RNP 1
5	TF	EGNUG	-	156 (158.2)	-2.6	4.9	-	+8000/-9000	-	-	RNP 1
6	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
7	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
8	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
9	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
10	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks		Further descent after LAGNO by ATC only. Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).									

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RNP STAR TOSNA 2V

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	EGNUG	-	207 (209.8)	-2.6	12.3	-	+8000/-9000	-	-	RNP 1
9	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
10	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
11	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
12	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
13	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).										

RNP STAR VEDED 2R

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	EGNUG	-	207 (209.8)	-2.6	12.3	-	+8000/-9000	-	-	RNP 1
16	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
17	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
18	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
19	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
20	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).										

WAYPOINT LIST

RNP STAR ALKAN 2R / HAYYA 2R / ORLEK 1R/ TOSNA 2V / VEDED 2R

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
EGNUG	251843.02N 0514203.54E
MISOX	251403.48N 0514406.40E

RNP STAR ALKAN 2R / HAYYA 2R / ORLEK 1R/ TOSNA 2V / VEDED 2R

Waypoint Identifier	Coordinates
SIDMU	251131.44N 0514513.15E
LOVAN	250831.68N 0514632.01E
MUXED	250356.10N 0514832.78E
HAYYA	260425.38N 0512407.37E
VELAM	255426.12N 0514347.13E
VUTAN	255015.91N 0515218.39E
TUDOM	254635.66N 0520102.61E
VEDED	260558.26N 0514627.91E
TOSNA	251612.00N 0524116.00E
ORLEK	252542.00N 0503712.00E
GINTO	251605.56N 0510415.88E
LAGNO	251613.00N 0511518.00E
NOLMA	252318.89N 0514002.12E

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