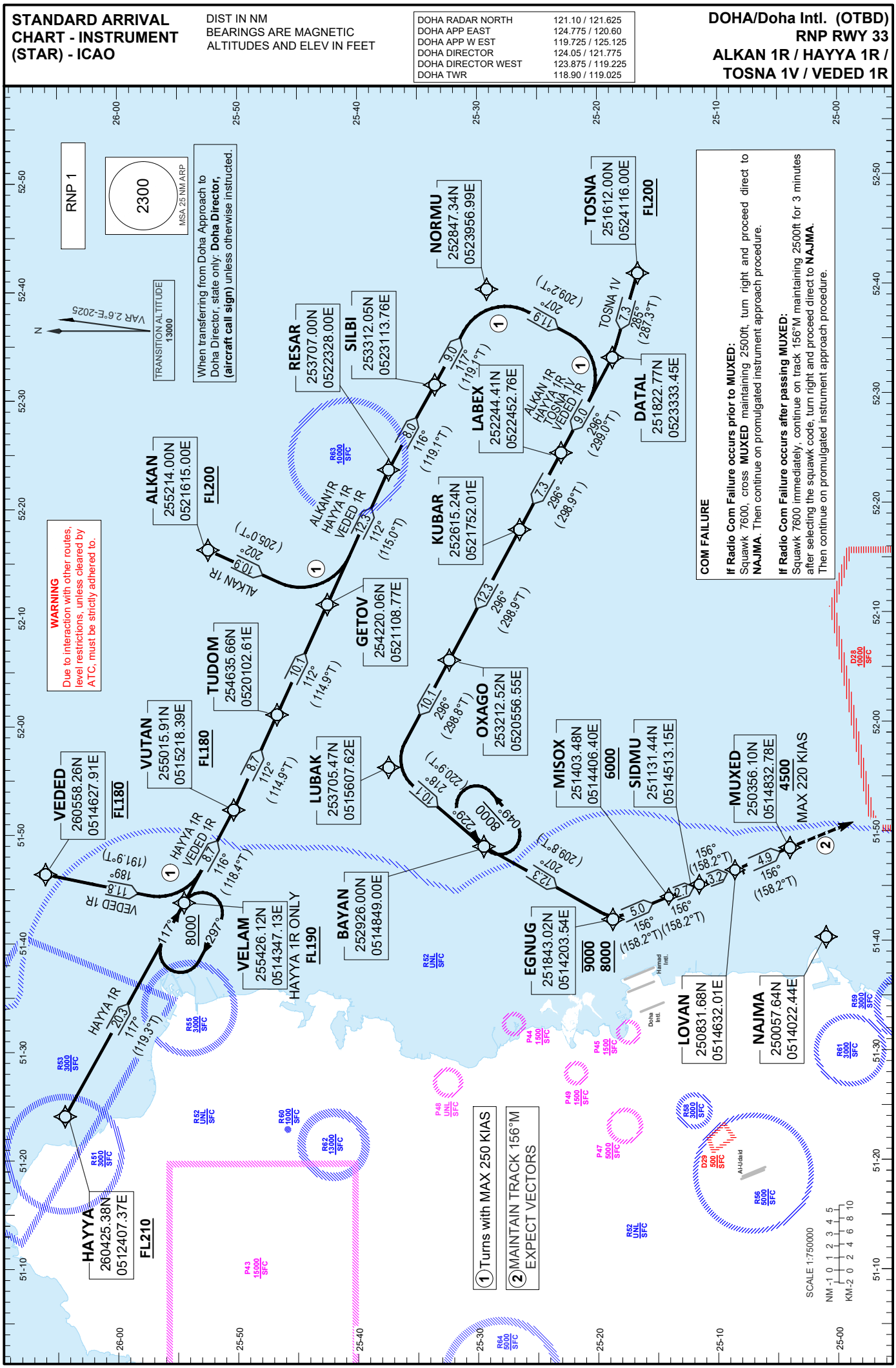
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR NORTH	121.10 / 121.625
DOHA APP EAST	124.775 / 120.60
DOHA APP W EST	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
ALKAN 1R / HAYYA 1R / TOSNA 1V / VEDED 1R



STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

DOHA/Doha Intl.(OTBD)
RNP RWY 33
ALKAN 1R / HAYYA 1R / TOSNA 1V / VEDED 1R

TABULAR DESCRIPTION

RNP STAR ALKAN 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	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	-	116 (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	-	-	-	-	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	-	-	-	-	RNP 1
16	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
17	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

RNP STAR HAYYA 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	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	-	116 (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	-	-	-	-	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	-	-	-	-	RNP 1
19	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
20	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

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RNP STAR TOSNA 1V

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	-	-	-	-	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	-	-	-	-	RNP 1
12	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
13	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

RNP STAR VEDED 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	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	-	116 (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	-	-	-	-	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	-	-	-	-	RNP 1
19	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
20	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

WAYPOINT LIST

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

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

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

Waypoint Identifier	Coordinates
EGNUG	251843.02N 0514203.54E
MISOX	251403.48N 0514406.40E
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

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