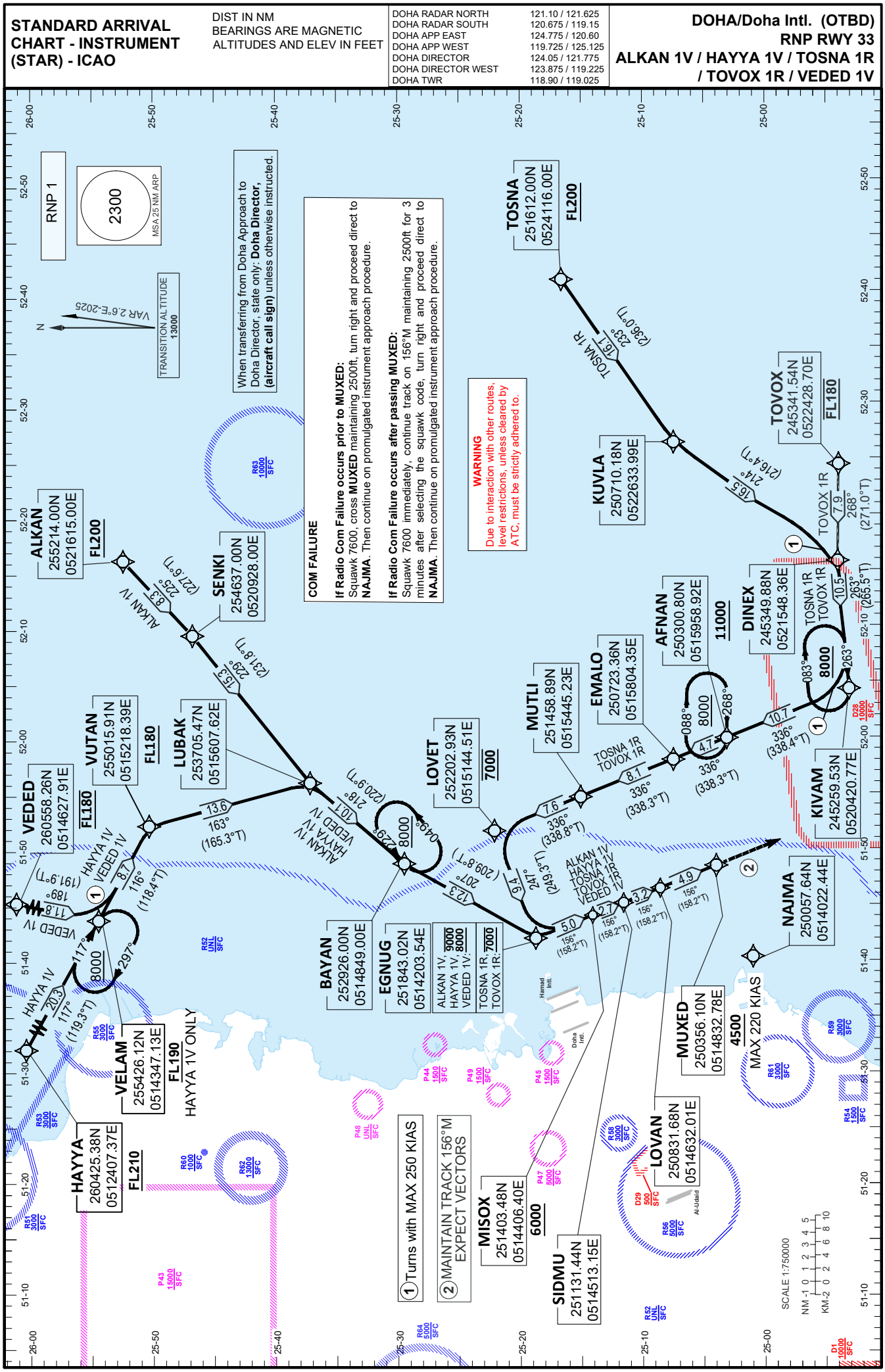

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO
DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET
DOHA RADAR NORTH 121.10 / 121.625
DOHA RADAR SOUTH 120.675 / 119.15
DOHA APP EAST 124.775 / 120.60
DOHA APP WEST 119.725 / 125.125
DOHA DIRECTOR 124.05 / 121.775
DOHA DIRECTOR WEST 123.875 / 119.225
DOHA TWR 118.90 / 119.025
DOHA/Doha Intl. (OTBD)
RNP RWY 33
ALKAN 1V / HAYYA 1V / TOSNA 1R / TOVOX 1R / VEDED 1V
RNP 1
2300
MSA 25 NM ARP
VAR 2.6°E-2025
TRANSITION ALTITUDE 13000
When transferring from Doha Approach to Doha Director, state only: Doha Director, (aircraft call sign) unless otherwise instructed.
COM FAILURE
If Radio Com Failure occurs prior to MUXED: Squawk 7600, cross MUXED maintaining 2500ft, turn right and proceed direct to NAJMA. Then continue on promulgated instrument approach procedure.
If Radio Com Failure occurs after passing MUXED: Squawk 7600 immediately, continue track on 156°M maintaining 2500ft for 3 minutes after selecting the squawk code, turn right and proceed direct to NAJMA. Then continue on promulgated instrument approach procedure.
WARNING
Due to interaction with other routes, level restrictions, unless cleared by ATC, must be strictly adhered to.
ALKAN 255214.00N 0521615.00E FL200
SENKI 254637.00N 0520928.00E
VUTAN 255015.91N 0515218.39E FL180
LUBAK 253705.47N 0515607.62E
VEDED 260558.26N 0514627.91E FL180
HAYYA 260425.38N 0512407.37E FL210
VELAM 255426.12N 0514347.13E FL190
HAYYA 1V ONLY
BAYAN 252926.00N 0514849.00E
EGNUG 251843.02N 0514203.54E
ALKAN 1V, 9000
HAYYA 1V, 8000
VEDED 1V:
TOSNA 1R, 7000
TOVOX 1R:
LOVET 252202.93N 0515144.51E 7000
MUTLI 251458.89N 0515445.23E
EMALO 250723.36N 0515804.35E
AFNAN 250300.80N 0515958.92E 11000
DINEX 245349.88N 0521548.36E 8000
KIVAM 245259.53N 0520420.77E
NAJMA 250057.64N 0514022.44E
TOSNA 251612.00N 0524116.00E FL200
KUVLA 250710.18N 0522633.99E
TOVOX 245341.54N 0522428.70E FL180
MUXED 250356.10N 0514832.78E 4500
MAX 220 KIAS
LOVAN 250831.68N 0514632.01E
MISOX 251403.48N 0514406.40E 6000
SIDMU 251131.44N 0514513.15E
1 Turns with MAX 250 KIAS
2 MAINTAIN TRACK 156°M EXPECT VECTORS
SCALE 1:750000
NM -1 0 1 2 3 4 5
KM -2 0 2 4 6 8 10

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

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

TABULAR DESCRIPTION

RNP STAR ALKAN 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	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	-	-	-	-	RNP 1
5	TF	EGNUG	-	207 (209.8)	-2.6	12.3	-	+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	-	-	-	-	RNP 1
9	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
10	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

RNP STAR HAYYA 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	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	-	-	-	-	RNP 1
6	TF	EGNUG	-	207 (209.8)	-2.6	12.3	-	+8000/-9000	-	-	RNP 1
7	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
8	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
9	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	-	-	-	RNP 1
10	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
11	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

RNP STAR TOSNA 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	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	-	-	-250	-	RNP 1
4	TF	KIVAM	-	263 (265.5)	-2.6	10.5	-	-	-250	-	RNP 1
5	TF	AFNAN	-	336 (338.4)	-2.6	10.7	-	+11000	-	-	RNP 1
6	TF	EMALO	-	336 (338.3)	-2.6	4.7	-	-	-	-	RNP 1
7	TF	MUTLI	-	336 (338.3)	-2.6	8.1	-	-	-	-	RNP 1
8	TF	LOVET	-	336 (338.8)	-2.6	7.6	-	@7000	-	-	RNP 1
9	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	@7000	-	-	RNP 1
10	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
11	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
12	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	-	-	-	RNP 1
13	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
14	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

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RNP STAR TOVOX 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	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	-	-	-250	-	RNP 1
4	TF	AFNAN	-	336 (338.4)	-2.6	10.7	-	+11000	-	-	RNP 1
5	TF	EMALO	-	336 (338.3)	-2.6	4.7	-	-	-	-	RNP 1
6	TF	MUTLI	-	336 (338.3)	-2.6	8.1	-	-	-	-	RNP 1
7	TF	LOVET	-	336 (338.8)	-2.6	7.6	-	@7000	-	-	RNP 1
8	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	@7000	-	-	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 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	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	LUBAK	-	163 (165.3)	-2.6	13.6	-	-	-	-	RNP 1
5	TF	BAYAN	-	218 (220.9)	-2.6	10.1	-	-	-	-	RNP 1
6	TF	EGNUG	-	207 (209.8)	-2.6	12.3	-	+8000/-9000	-	-	RNP 1
7	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
8	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
9	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	-	-	-	RNP 1
10	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+4500	-220	-	RNP 1
11	FM	MUXED	-	156 (158.2)	-2.6	-	-	+4500	-220	-	RNP 1
Remarks											

WAYPOINT LIST

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

Waypoint Identifier	Coordinates
ALKAN	255214.00N 0521615.00E
SENKI	254637.00N 0520928.00E
LUBAK	253705.47N 0515607.62E
BAYAN	252926.00N 0514849.00E
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

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

Waypoint Identifier	Coordinates
VUTAN	255015.91N 0515218.39E
TOSNA	251612.00N 0524116.00E
KUVLA	250710.18N 0522633.99E
DINEX	245349.88N 0521548.36E
KIVAM	245259.53N 0520420.77E
AFNAN	250300.80N 0515958.92E
EMALO	250723.36N 0515804.35E
MUTLI	251458.89N 0515445.23E
LOVET	252202.93N 0515144.51E
TOVOX	245341.54N 0522428.70E
VEDED	260558.26N 0514627.91E

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