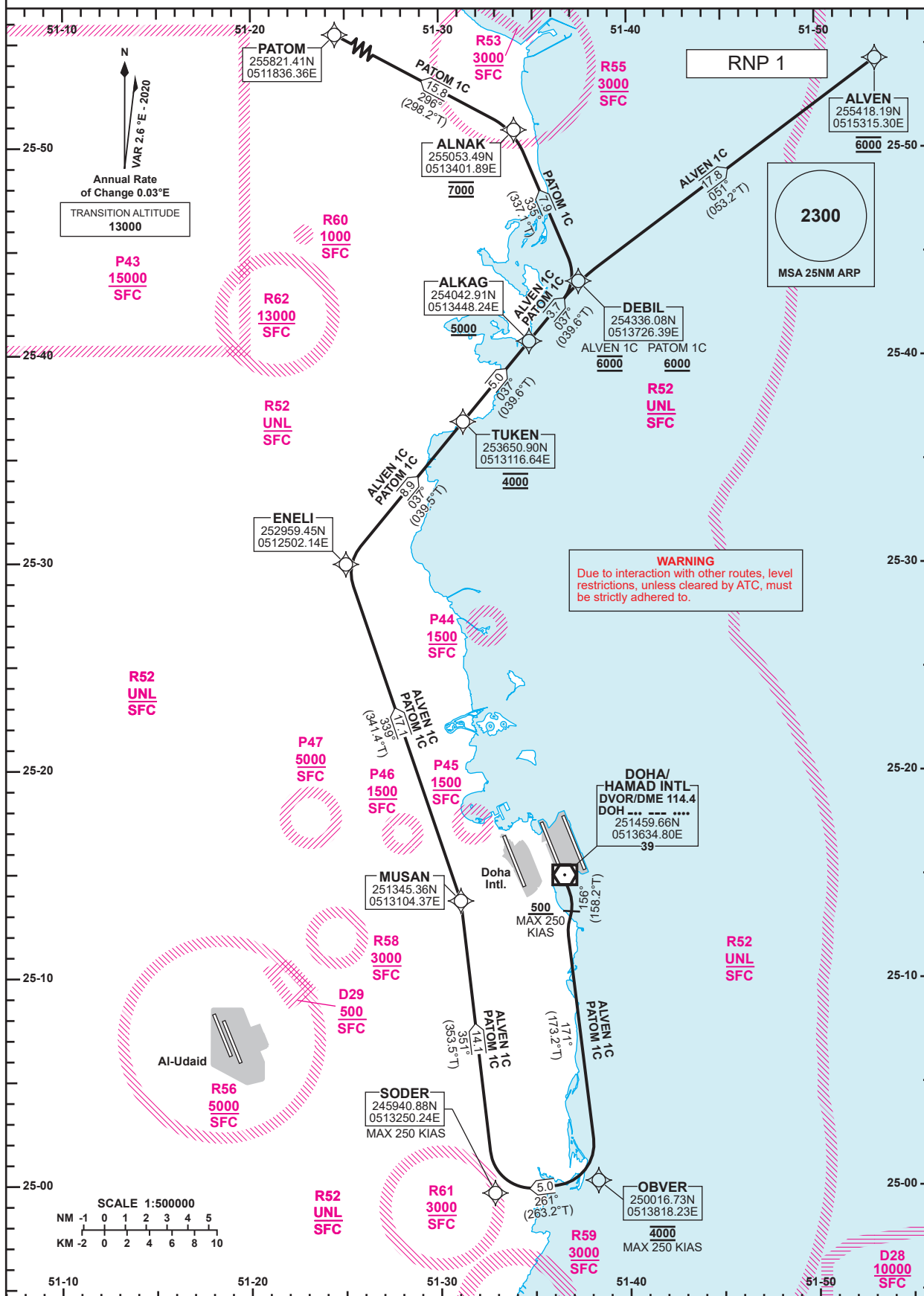


STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAODIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEETDOHA RADAR 121.10
DOHA APP 119.725 / 120.60
HAMAD TWR (EAST) 118.525 / 118.225
HAMAD TWR (WEST) 118.025 / 118.225DOHA/Hamad Intl. (OTHH)
RNP RWY 16R
ALVEN 1C /PATOM 1C

Route Designator	Routeing
ALVEN 1C	[T158.2;A500+;K250-] - OBVER[R;T173.2;A4000;K250-] - SODER[R;K250-] - MUSAN - ENELI - TUEN[A4000] - ALKAG[A5000+] - DEBIL[A6000] - ALVEN[A6000]
PATOM 1C	[T158.2;A500+;K250-] - OBVER[R;T173.2;A4000;K250-] - SODER[R;K250-] - MUSAN - ENELI - TUEN[A4000] - ALKAG[A5000+] - DEBIL[A6000+] - ALNAK[A7000] - PATOM

GENERAL INFORMATION

1. Close-in obstacles exist for Rwy 16R departures.
2. 3.5% CG required to 600.

Changes: Upper limit P43 and D28

**STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO**

**DOHA/Hamad Intl.(OTHH)
RNP RWY 16R
ALVEN 1C /PATOM 1C**

TABULAR DESCRIPTION

RNP SID ALVEN 1C

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	CA		-	156 (158.2)	-2.6	-		+500	-250		RNP 1
2	CF	OBVER	-	171 (173.2)	-2.6	-	R	@4000	-250		RNP 1
3	TF	SODER	-	261 (263.2)	-2.6	5.0	R	-	-250		RNP 1
4	TF	MUSAN	-	351 (353.5)	-2.6	14.1		-			RNP 1
5	TF	ENELI	-	339 (341.4)	-2.6	17.1		-			RNP 1
6	TF	TUKEN	-	037 (039.5)	-2.6	8.9		@4000			RNP 1
7	TF	ALKAG	-	037 (039.6)	-2.6	5.0		+5000			RNP 1
8	TF	DEBIL	-	037 (039.6)	-2.6	3.7		@6000			RNP 1
9	TF	ALVEN	-	051 (053.2)	-2.6	17.8		@6000			RNP 1

RNP SID PATOM 1C

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	CA		-	156 (158.2)	-2.6	-		+500	-250		RNP 1
2	CF	OBVER	-	171 (173.2)	-2.6	-	R	@4000	-250		RNP 1
3	TF	SODER	-	261 (263.2)	-2.6	5.0	R	-	-250		RNP 1
4	TF	MUSAN	-	351 (353.5)	-2.6	14.1		-			RNP 1
5	TF	ENELI	-	339 (341.4)	-2.6	17.1		-			RNP 1
6	TF	TUKEN	-	037 (039.5)	-2.6	8.9		@4000			RNP 1
7	TF	ALKAG	-	037 (039.6)	-2.6	5.0		+5000			RNP 1
8	TF	DEBIL	-	037 (039.6)	-2.6	3.7		+6000			RNP 1
9	TF	ALNAK	-	335 (337.1)	-2.6	7.9		@7000			RNP 1
10	TF	PATOM	-	296 (298.2)	-2.6	15.8		-			RNP 1

WAYPOINT LIST

RNP SID ALVEN 1C /PATOM 1C

Waypoint Identifier	Coordinates
OBVER	250016.73N 0513818.23E
SODER	245940.88N 0513250.24E
MUSAN	251345.36N 0513104.37E
ENELI	252959.45N 0512502.14E
TUKEN	253650.90N 0513116.64E
ALKAG	254042.91N 0513448.24E
DEBIL	254336.08N 0513726.39E
ALVEN	255418.19N 0515315.30E
ALNAK	255053.49N 0513401.89E
PATOM	255821.41N 0511836.36E