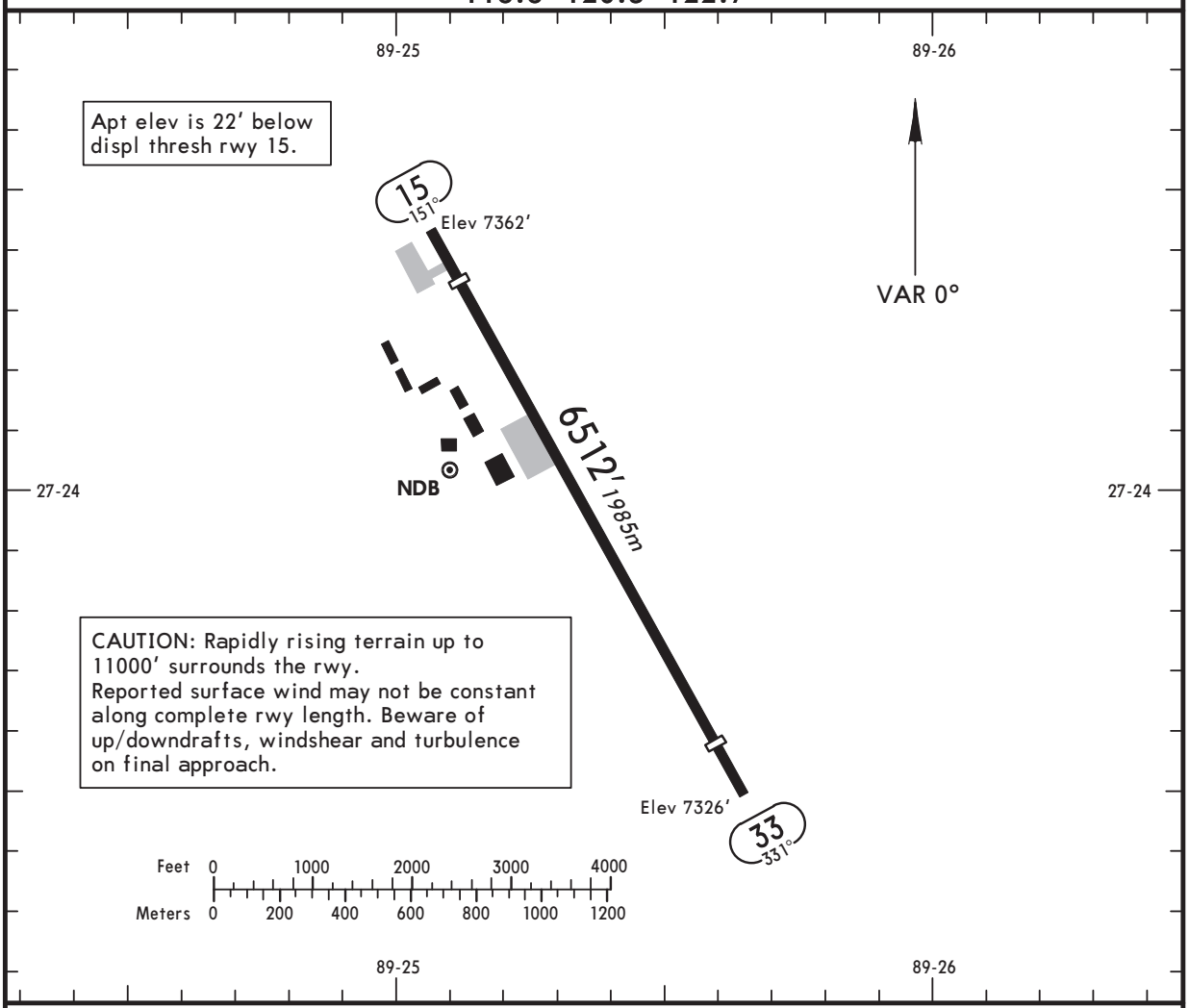
*PARO Tower

118.8 120.3 122.7



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS LANDING BEYOND Threshold	Glide Slope	TAKE-OFF	WIDTH
15 33		5922′ *1805m*			98′ *30m*

TAKE-OFF

	AIR CARRIER **All Rwys**	
A B	*400m*	
C D	NOT APPLICABLE	

CHANGES: Comm. Chart reindexed. Usable lengths.

PARO INTERNATIONAL AIRPORT
BHUTAN

AERODROME INFORMATION

1) LOCATION	**PARO**
Location indicator	***VQPR***
Coordinates	***27°24'12"N 89°25'36"E***
Coordinates in WGS-84	***27°24'31.75"N 89°25'14.09"E***
Elevation	***7333ft (2235 M)***
Elevation in WGS-84	***7340.14ft (2237.27 M)***
2) OPERATIONAL HOURS	***During Operational Hours Only.***
3) PASSENGERS CHECK IN TIME	
Schedule flight	***2½ Hrs PRIOR ETD***
Chartered flight	***1½ Hrs PRIOR ETD***
4) AIR TRAFFIC SERVICES	
Type of Services	***ADVISORY SERVICE***
Airspace Classification	**E & G**
TOWER OPERATIONAL HOURS	
Schedule flight	***1 Hr prior ETD/ETA***
Chartered flight	***1Hr prior ETD/ETA***
Helicopters	***½ Hr prior ETD/ETA***
5) TIME DIFFERENCE	***+6 Hrs UTC***
6) AERODROME CATEGORY	***C***
7) RESCUE & FIRE FIGHTING	
Category	***6***
Amount of Water	***11,800 liters***
8) RUNWAY	
RWY Orientation	***15 & 33 (151°/331°)***
RWY Dimension	***1985m X 30m***
RWY strength	***PCN 20 /F/C/W/T***
RWY Slope	***0.81% TO THE SOUTH EAST***

9) THRESHOLD COORDINATES & ELEVATION (*WGS-84)

RWY15 -	****27°24'39.09"N***	***89°25'11.54" E***	***2237.58M (7341.14ft)***
RWY33 -	****27°23'43.41"N***	***89°25'47.01"E***	***2221.85M (7289.52ft)***

10) TEMPORARY DECLARED DISTANCE ***(Valid until July 2008)***

RWY15 - **TORA -1985M, TODA-1985M, ASDA-1985M, LDA 1985M**
RWY33 - **TORA -1985M, TODA-1985M, ASDA-1985M, LDA 1985M**

11) FREQUENCY

VHF (MAIN)

TWR	***TWR 120.3Mhz***
Call sign	***PARO TOWER***
Range Coverage	***150 NM towards Southeast i.e. via BOGOP (R598)***
	35 NM toward s Southwest i.e. via SUBSU (G348)

VHF (EMERGENCY)

TWR	***TWR 121.5Mhz***
Call sign	***PARO TOWER***
Range Coverage	***within 10 – 12 NM of radius only***

HF

Frequency	***8921Khz & 13342Khz,***
Call Sign	***PARO RADIO***

12) NAVIGATION AIDS:-

VOR/DME

Frequency	***108.4Mhz "PRO"***
Radial & Distance	***140°/7NM from ARP***
Coordinates-	***27°18'30"N 89°30'30"E 350M***

NDB

Frequency & Location	***410 Khz "PR" (500M SW of Paro Aerodrome)***
Coordinates (*WGS-84)	***27°23'58"N 89°25'29"E***

13) SECTOR ALTITUDE:- ***16,000ft (090°- 250°) 17,500ft (255°- 150°)***
26,100ft (315°- 090°)

14) ENTRY & EXIT ROUTE:-

a) R598 BOGOP Radial 161°/37 NM 26°44'N 89°44'E
b) G348 SUBSU R240°/38 NM 26°58'N 88°52'E
(Distance from Paro VOR/DME)

15) HOLDING POINTS:-

Geographical Location	***TAKTHI***
Coordinates	***27°03'N 89°29'E***
Distance	***15 DME from PARO AD***
	8.5 DME from VOR/DME

16) COMPULSORY REPORTING POINTS

BOGOP (Southeast sector)
SUBSU (Southwest sector)
TAKTI

CONFLUENCE

17) TRANSFER POINT:-

a) R598 BOGOP Radial 161 ˚/37 NM 26 ˚44'N 89 ˚44'E
b) G348 SUBSU R240 ˚/38 NM 26 ˚58'N 88 ˚52'E
(Distance from Paro VOR/DME)

18) SIGNIFICANT REFERENCE POINT

1. TOWARDS SOUTH OF AIRFIELD

V-VICTOR
VOR RIDGES
ESUNA VALLEY

2. TOWARDS NORTH OF AIRFIELD

Mr. SMITH'S RIDGES
TURNING AREA OF RWY15
SANGCHEOKOR MONASTRY

19) ADDRESSES & Tel No.

1. TOWER	***9758272859 – for Tower observation & Flight Information***
2. ARO/AIS Office	***9758272760 – for Flight Plan, NOTAM & Aerodrome condition*** ***Email :- aisection@druknet.bt***
3. MET Office	***975271404/271233 for Weather update***
4. AFTN address:-	***VQPRZTZX/VQPRYFYT – for Flight plan, NOTAM and departure information***

20) HANDLING SERVICE & FACILITIES

*FUEL/OIL:- ***Aviation Turbine Fuel only – Jet A1***
****(Service available prior intimation only)***

HANDLING FACILITIES:-** ***Ground Operation Manager,
Druk Air Corporation Ltd.
Paro Airport.
Tel # 975 8272722
Fax#9758271259
Email Add.

21) REQUIREMENTS:-

(1) PRIOR OPERATING INTO PARO AIRPORT THE PILOT IN- COMMAND SHOULD BE BRIEFED AND VISIT THE AERODROME AS AN OBSERVER.

OR SHOULD

UNDERTAKE INSTRUCTION IN A SIMULATOR APPROVED BY THE AUTHORITY FOR THAT PURPOSE.

OR

REQUEST GUIDE PILOT(NAVIGATOR) FROM DRUK AIR CORPORATION LTD. ON FOLLOWING ADDRESS:-

Capt Karma Dupchu, FOM
Druk Air Corporation ltd.
Tele No. 975 8271415/271218
Fax No.9758272040
Email Add:- drukops@druknet.bt

(2) ALL NON SCHEDULED CIVIL/MILITARY AIRCRAFT ARE TO OBTAIN RELEVANT CLEARANCE PRIOR OPERATING INTO BHUTAN AIRSPACE FROM THE DIRECTOR OF DEPARTMENT OF CIVIL AVIATION.

TO OBTAIN CLEARANCES ON BEHALF OF PRIVATE AIRLINES AND FOR ADDITIONAL LOGISTICS CONTACT:-

Mr. Dorji Wangdi
Bhutan Air Service
Paro Airport.
Tele # 975 8272063 (o)
Fax # 975 8272053
Mobile:- 975 17617383
Email: bhutanair@yahoo.com/bhutanair@hotmail.com

Note:- *Bhutan air services (BAS) is the authorized agent for coordinating and assisting in clearance of private aircraft/helicopter that fly to Bhutan. All fees and charges at Paro Aerodrome will be collected by the Bhutan Air Services.*

(3) IN ORDER TO AVOID UNNECESSARY DELAY WHILE DEPARTING FROM PARO, RELEVANT CLEARANCES **(YANKEE ALPHA NUMBER)** FROM INDIAN DGCA AND OTHER CLEARANCES FROM THE RESPECTIVE AUTHORITY MUST BE OBTAINED TO OVER FLY/TRANSITING THROUGH THE RESPECTIVE AIRSPACES.

(4) SPECIFIC DATE & TIME OF ARRIVAL/ DEPARTURE OR OVER FLYING/TRANSITING SHOULD BE CLEARLY MENTIONED WHILE OBTAINING SUCH CLEARANCES.

(5) LAST MINUTE CHANGE IN FLIGHT PLAN SHALL BE SUBJECT TO **DELAY THE FLIGHT TO OBTAIN NEW ADC/FIC**, THEREFORE ALL FLIGHTS ARE TO ADHERE WITH PLANNED FLIGHT PLAN OR INFORM TO ARO REGARDING THE CHANGES IN FLIGHT PLAN AT LEAST ONE DAY PRIOR. **DCA BHUTAN SHALL NOT BE RESPONSIBLE FOR THE DELAY OF FLIGHT.**

(6) FLIGHT WISHING TO DEPART EARLY IN THE MORNING FROM PARO (BTN 0000Z–0400Z), PRIOR FLIGHT PLAN SHOULD BE FILED AT LEAST ONE DAY PRIOR DEPARTURE FROM PARO, IN ORDER TO AVOID DELAY IN OBTAINING ADC/FIC FROM INDIA FIR/FIC.

(7) FLIGHT PLAN CAN BE FILED DURING OPERATIONAL HOURS OR DURING OFFICE HOURS (09:00 – 16:00 Hrs BST) AT THE FOLLOWING ADDRESS.

ARO,
AIS OFFICE,
CONTROL TOWER,
1st FLOOR,
PARO AIRPORT.
Tel No. 975-8-272760/272895
Email:- ***aisection@druknet.bt***

22) RESTRICTION:-

(1) ONLY DAY OPERATIONS IN VMC (DAY VFR FLTS ONLY)
(2) NO NIGHT LANDING/BAD WEATHER FACILITIES
(3) ALTITUDES TO BE MAINTAINED AS PER ICAO RULES OF THE AIR.
(4) AVOID FLYING OVER YELLOW ROOFTOP i.e., *(Dzongs, Monastery, Temples)*
(5) FLIGHT SHALL BE PERMITTED TO FLY ONLY **AFTER/BEFORE 15 MINUTES OF SUNRISE /SUNSET.**

23) PROCEDURES

(1) WITH THE HIGH TERRAIN AND RAPID PHENOMENON CHANGE OF WEATHER IN AND AROUND THE PARO AERODROME, ALL FLIGHTS ARE OPERATED AS **DAY VFR AERODROME**, THEREFORE ANY AIRCRAFT OPERATING IN BHUTAN TERRITORY ARE REQUIRED TO OBTAIN WEATHER INFORMATION FROM PARO AERODROME AT LEAST ONE HOUR PRIOR TO DEPARTURE.

(2) PARO WEATHER WILL AVAILABLE ON HF RADIO ON FREQ. **8921KHZ** AND **13342KHZ**, CALL SIGN PARO RADIO OR CAN BE REQUESTED ON AFTN i.e. On **VQPRZTZX, VQPRYFYT**

(3) FLIGHT PLAN SHOULD BE FILED ON AFTN/FAX PRIOR ONE HOUR DEPARTURE FOLLOWED BY STATUS OF FLIGHT, IN THE EVENT OF ANY DELAY OR CANCELLATION OF FLIGHT LIKELY TO OCCUR.

(4) **AIRBORNE CALL IS MUST** AS SOON AS THE AIRCRAFT DEPARTS FROM THE DEPARTURE AERODROME WITH THE **ATD AND ETA OVER PARO. AIRBORNE TIME & ETA SHOULD BE INFORMED TO PARO RADIO ON HF.**

(5) ENTRY/EXIT FROM/TO BHUTAN TO INDIAN AIRSPACE IS ON POSITIVE R/T CONTACT WITH HASIMARA (IAF 130.4Mhz) BAGDOGRA (IAF 131.2Mh) AND GUWAHATI (Civil ACC 120.5 Mhz or Civil APP 123.9Mhz) AS APPLICABLE.

(6) ENTRY/EXIT INTO CIRCUIT AREA IS VIA **CONFLUENCE** (*Confluence Of Rivers Paro-Thimphu)* AT SAFETY ALTITUDE. DESCEND BELOW SAFETY ALTITUDE

ONLY IN VMC. ALL ARRIVING AIRCRAFT TO CONTACT PARO TOWER ATLEAST 38 NM BEFORE REACHING CONFLUENCE.

(7) TA-18,000, TL WILL BE PASSED BY ATC

(a) CIRCUIT AREA/PATTERN IS GENERALLY TO THE WEST OF AIRFIELD. AIRCRAFT ON CIRCUIT MAY NOT BE VISIBLE TO ATC, DUE TO HILLS, DESCENDING CIRCUIT.

(b) TO THE NORTH/NORTH EAST OF THE AIRFIELD THE DUPSHARE VALLEY IS **UNSAFE AND NOT ALLOWED FOR** CIRCUIT.

(8) FINAL APPROACH TRACK FOR BOTH RUNWAY IS CURVED DUE TO HILLY TERRAIN, "**EXERCISE CAUTION"**. APPROACH ON FINAL IS ABOVE 3ºGP. NO VISUAL GUIDANCE LIKE VASI. PAPI. ILS, RUNWAY LIGHTS ETC ON FINAL.

(9) SURFACE WINDS PASSED ON R/T IS THE TOWER OBSERVATION AND MAY NOT BE INDICATIVE OF ACTUAL WIND CONDITIONS AT DIFFERENT POSITIONS ON RUNWAY. SURFACE WINDS INCREASE IN INTENSITY USUALLY IN THE AFTERNOON HOURS.

(10) SEVERE TURBULENCE MAY EXPERIENCE WHEN ENTERING THE VALLEY.

(11) STRONG ANABATIC WIND IN THE AFTERNOON (FEB – MAY) MAY GIVE RAISE TO MODERATE TO SEVERE TURBULENCE; IT IS RECOMMENDED TO RESTRICT FLIGHT MOVEMENT TO THE MORNING.

(12) ONLY ONE AIRCRAFT AT A TIME IS PERMITTED TO DESCEND IN A VALLEY.

(13) HOLDING POINT IS OVER TAKTI 180º/15 NM FROM VOR/DME AT ALTITUDE CLEARED BY PARO ATC. MINIMUM 16 000ft.

(14) HELICOPTERS OPERATING AS A DOMESTIC FLIGHT/MOUNTAIN FLIGHT WITHIN BHUTAN TERRITORY CAN CONTACT PARO TOWER ON FIXED LINE/MOBILE *(Numbers provided above on item no. 19).* WHILE ON GROUND AT HELIPAD FOR PARO WEATHER AND THE DEPARTURE INFORMATION (ETA/ETD). THIS SHALL BE APPLIED ONLY TO THOSE HELICOPTER NOT EQUIPPED WITH **HF RADIO FACILITIES** ON BOARD

24) DEPARTURE INSTRUCTION

1. **NO SIDs** *(Standard instrument Departure)* IS ESTABLISHED FOR PARO AIRPORT. THEREFORE, ALL AIRCRAFT SHALL STRICTLY FOLLOW VISUAL FLIGHT RULES (VFR) AND IN VISUAL METEOROLOGICAL CONDITIONS (VMC).

2. AFTER DEPARTURE CLIMB INITIALLY 18000FT ON QNH MAINTAINING VISUAL TO TERRAIN/OBSTACLE AND REPORT OVER CONFLUANCE/VOR"PRO" WITH THE ESTIMATES TIME OVER DESIGNATED COMPULSORY REPORTING POINTS AND DESTINATION.

3. AS SOON AS REACHING ALTITUDE 18000 FT AND/OR BEFORE CROSSING BHUTAN AIRSPACE, AIRCRAFT SHALL CONTACT THE FOLLOWING ADJACENT ACC/APP FOR HIGHER LEVEL AND POSITION REPORT.

   a) **AIRCRAFT DEPARTING FOR SOUTHEAST SECTOR** i.e. via **BOGOP(R598)** AIRCRAFT SHALL CONTACT **HASHIMARA ON FREQ 130.4Mhz** & ALSO WITH **GUWHATI** ON FREQ **120.5 Mhz (approach) 123.9 Mhz (area)**

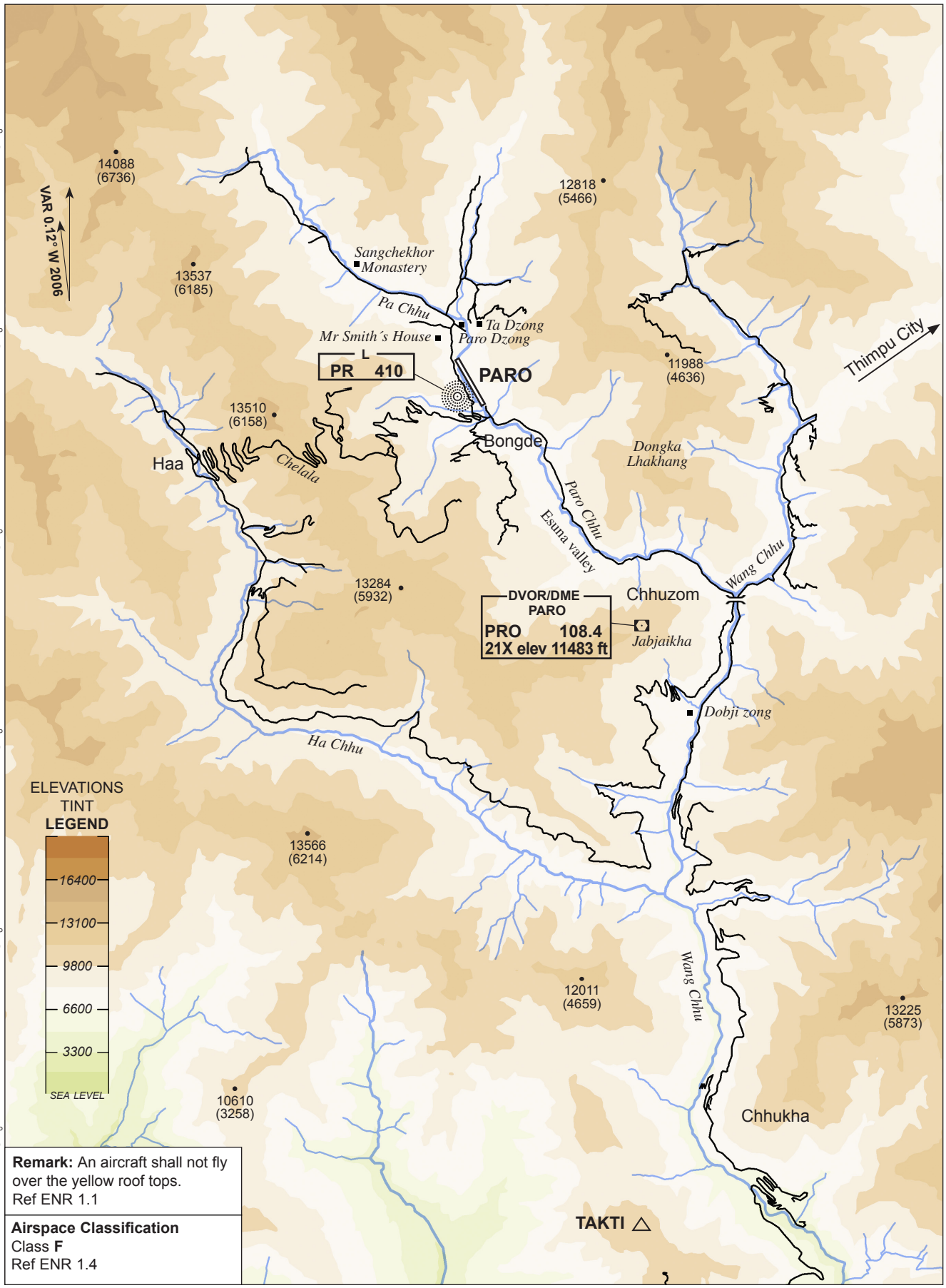
   b) **AIRCRAFT DEPARTING FOR SOUTHWEST SECTOR** i.e. via SUBSU(G348), AIRCRAFT SHALL CONTACT **BAGHDORA ON FREQ 131.2Mhz** & ALSO WITH **GUWHATI ON FREQ 120.5 Mhz (approach) 123.9 Mhz (area)**

4. AFTER ESTABLISHING CONTACT WITH THE ADJACENT ACC, AIRCRAFT SHALL REPORT BACK TO PARO TOWER WITH THEIR ASSIGNED LEVEL AND POSITION UNTIL LEAVING BHUTAN AIRSPACE/CROSSING TRANSFER POINT.

5. AIRCRAFT SHALL ALSO REPORT BACK TO PARO TOWER AFTER VACATING BHUTAN AIR SPACE i.e. OVER **BOGOP/SUBSU**.

Wish you a very SAFE & Pleasant Flight.

VISUAL APPROACH CHART-ICAO	PARO/BHUTAN	PARO TOWER 120.300	AD 2–VQPR–6–1
TRANSITION ALTITUDE 18000 MSL	**AD ELEV 7352 FEET**	**PARO RADIO**	1: 250 000
THR -ELEV RWY 15: 7350 ft RWY 33: 7297 ft	ELEV and ALT in ft MSL 14088 HGT in ft above AD ELEV (6736)	**8921 Khz** **13342 Khz**	1 0 1 2 3 4 5 6 7 8 9 10 km 1 0 1 2 3 4 5 6 NM



Remark: An aircraft shall not fly over the yellow roof tops.
Ref ENR 1.1

Airspace Classification
Class **F**
Ref ENR 1.4

VQPR
PARO

15 JAN 99 (13-1)

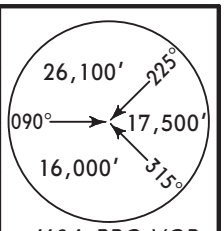
CAT A & B
CLOUD BREAK PROCEDURE

PARO, BHUTAN
VOR DME

*PARO Tower
118.8 120.3 122.7

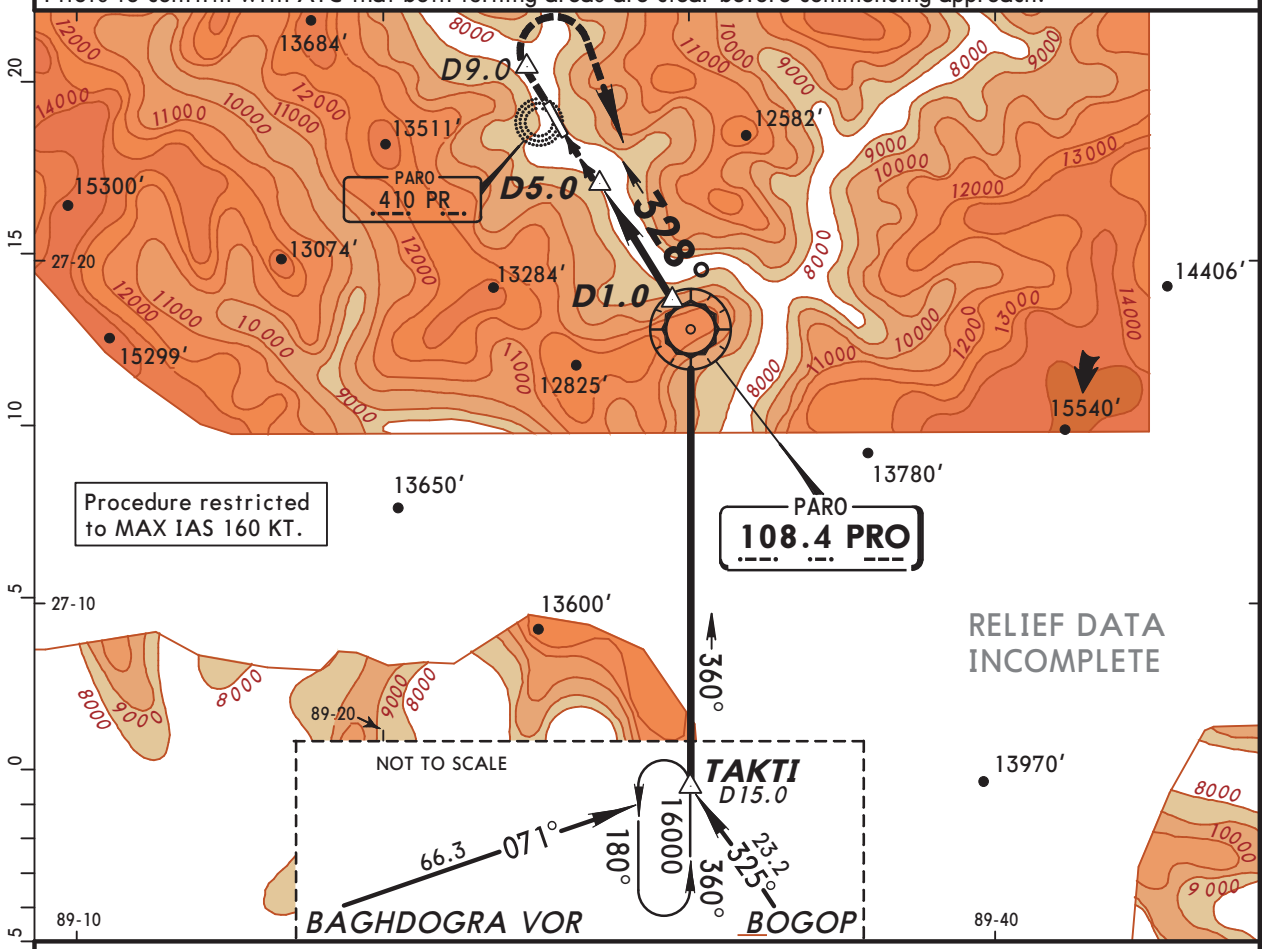
VOR	Final Apch Crs	Minimum Alt	MDA(H)	
PRO 108.4	328°	D1.0 13500′ (6167′)	12500′ (5167′)	Apt Elev 7333′

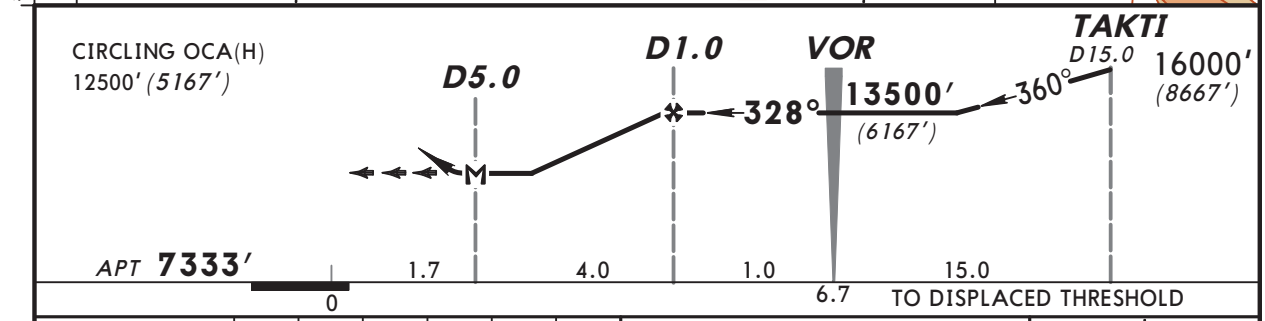
MISSED APCH: Climb STRAIGHT AHEAD on R-328 to D9.0. Turn RIGHT (MIM 25° bank, MAX IAS 160 KT) and climb to VOR. Continue on R-180 to TAKTI and climb to 16000′.



MSA PRO VOR

Alt Set: MB (IN on req) Apt Elev: 241 MB Trans level: By ATC Trans alt: 18000′ (10667′)
Pilots to confirm with ATC that both turning areas are clear before commencing approach.





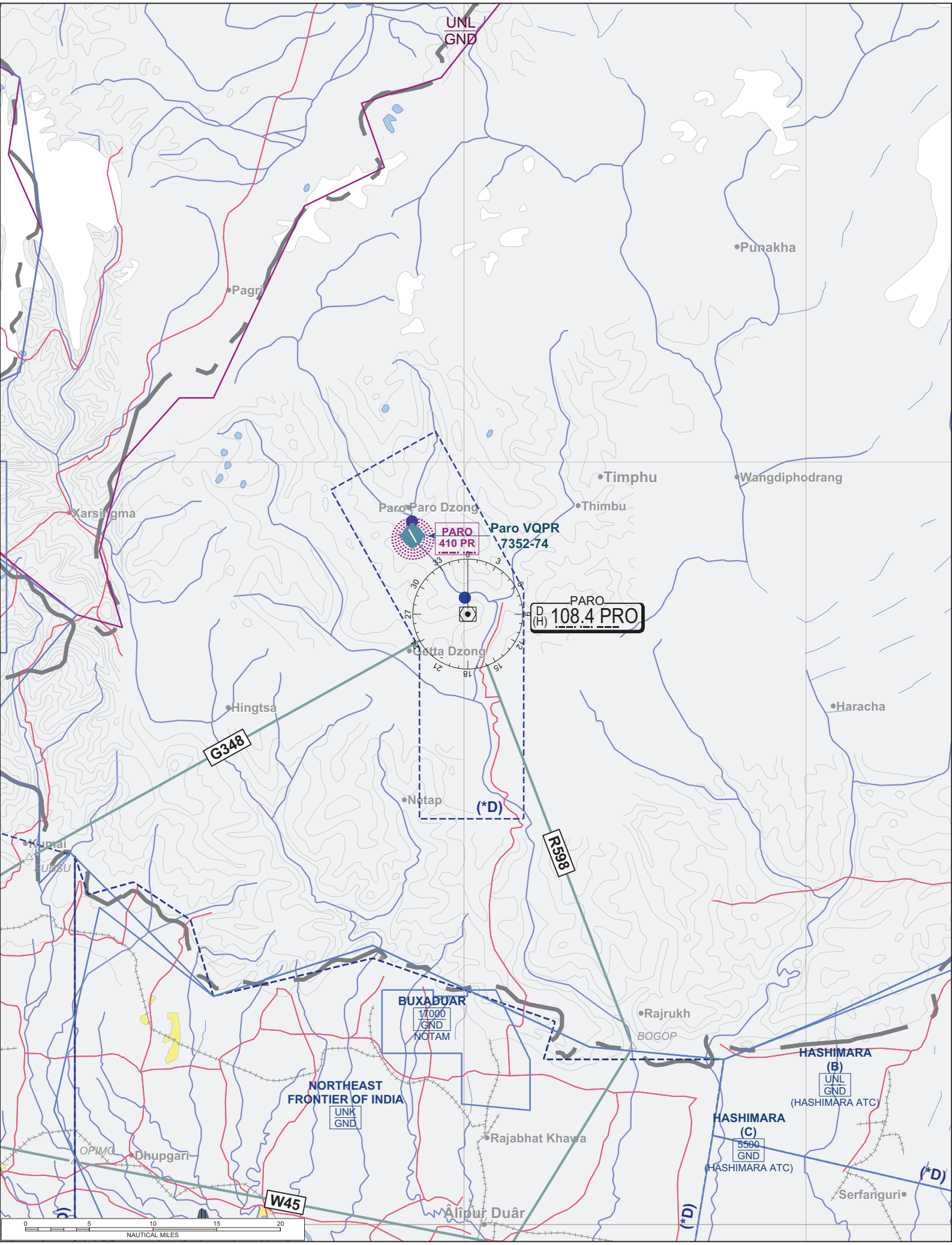
MAP at D5.0						

D9.0 ↑ PRO via 108.4 R-328

CIRCLE-TO-LAND

	Max Kts	MDA(H)	
A	100	12500′ (5167′)	3100m
B	135		
C		NOT APPLICABLE	
D			

CHANGES: New procedure.


UNL
GND
Punakha
Pagri
Timphu
Wangdiphodrang
Thimbu
Xarsingma
Paro
Paro Dzong
PARO
410 PR
Paro VQPR
7352-74
PARO
D
(H)
108.4 PRO
Getta Dzong
Hingtsa
Haracha
G348
Netap
(*D)
R598
Kumai
SUBSU
BUXADUAR
17000
GND
NOTAM
Rajrukh
BOGOP
HASHIMARA
(B)
UNL
GND
(HASHIMARA ATC)
NORTHEAST
FRONTIER OF INDIA
UNK
GND
HASHIMARA
(C)
5500
GND
(HASHIMARA ATC)
Rajabhat Khawa
OPIMO
Dhupgari
(*D)
Serfanguri
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NAUTICAL MILES