

## VTCN AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## VTCN - NAN / NAN NAKHON AIRPORT

## VTCN AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	184828.49N 1004700.31E
2	Direction and distance from (city)	3 KM N, from city
3	Elevation/Reference temperature	685 FT/29°C
4	Geoid Undulation at AD ELEV PSN	NIL
5	MAG VAR/Annual change	0.85°W (2016)/0.00°E
6	AD Administration, address, telephone, telefax, telex, AFS	Director of Nan Nakhon Airport Nan Nakhon Airport Nan-Thung Chang Road, Moo 2 Tambon pasing Amphoe Muang Nan 55000 Thailand Tel: +665 471 0270 +665 477 1650 Fax: +665 477 1308 AFS: VTCNYDYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Operator: Department of Airports

## VTCN AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	2300-1300
2	Customs and immigration	On request
3	Health and sanitation	On request
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	2300-1300
6	MET Briefing Office	NIL
7	ATS	2300-1300
8	Fuelling	NIL
9	Handling	NIL
10	Security	NIL
11	De-icing	NIL
12	Remarks	ATS Reporting Office (ARO): Located at Phitsanulok Airport (1st floor of airport building) Tel: +665 530 1078 +669 2262 3140 Fax: +665 530 1077

**VTCN AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	NIL
2	Fuel/oil types	NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

**VTCN AD 2.5 PASSENGER FACILITIES**

1	Hotels	In the city
2	Restaurants	In the city
3	Transportation	Car rent, Taxi and motorbike taxi services
4	Medical facilities	First aid at AD and hospital in the city
5	Bank and Post Office	Automatic teller machine(ATM) available but bank and post office in the city
6	Tourist Office	NIL
7	Remarks	NIL

**VTCN AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	Category 6
2	Rescue equipment	Yes
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

**VTCN AD 2.7 SEASONAL AVAILABILITY - CLEARING**

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	The aerodrome is available all seasons.

**VTCN AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA**

1	Apron surface and strength	Surface: Concrete Strength: PCN 45/R/C/X/T
2	Taxiway width, surface and strength	Width: 20 M Surface: Concrete and asphalt Strength: PCN 37/F/C/X/T
3	Altimeter checkpoint location and elevation	NIL
4	VOR checkpoints	NIL
5	INS checkpoints	NIL
6	Remarks	NIL

## VTCN AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	NIL
2	RWY and TWY markings and LGT	RWY AND TWY: Marked and lighted.
3	Stop bars	NIL
4	Remarks	NIL

## VTCN AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling areas and at AD		Remarks
1			2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle type Elevation Markings/LGT	Coordinates	
a	b	c	a	b	
NIL	NIL	NIL	Radio mast erected at field right side of RWY 20,215 M from centre line height 24 M and the another, height 153 M Both painted red and white alternatively lighted by red light on top	184430N 1004435E	NIL

## VTCN AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Aeronautical Meteorological Station-Nan, Northern Meteorological Center, Thai Meteorological Department (TMD)
2	Hours of service MET Office outside hours	2300-1100 NIL
3	Office responsible for TAF preparation Periods of validity	Supply TAF from Northern Meteorological Center 24 HR
4	Type of landing forecast Interval of issuance	TREND 1 HR
5	Briefing/consultation provided	Personal Consultation Tel: +665 471 8670
6	Flight documentation Language(s) used	NIL
7	Charts and other information available for briefing or consultation	S, U85, Daily Weather Forecast, satellite and radar images
8	Supplementary equipment available for providing information	Automated Weather Observation System (AWOS), Weather Radar
9	ATS units provided with information	Nan TWR
10	Additional information (limitation of service, etc.)	NIL

VTCN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
02	020.12°	2075x45	PCN 42/F/C/X/T Concrete and asphalt	184800.52N 1004649.21E	THR 679 FT TDZ 681 FT
20	200.12°	2075x45	PCN 42/F/C/X/T Concrete and asphalt	184858.74N 1004712.31E	THR 682 FT TDZ 685 FT

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of arresting system	OFZ	Remarks
7	8	9	10	11	12	13	14
NIL	NIL	225x90	2195x150	90x90	NIL	NIL	NIL
NIL	NIL	225x90	2195x150	90x90	NIL	NIL	NIL

VTCN AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
02	2000	2225	2000	1925	NIL
20	2000	2225	2000	1925	NIL

VTCN AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
02	RTIL	Green	PAPI Left 3.4° (60.29 FT)	NIL	NIL	2 000 M 60 M White, LIM	Red	NIL	NIL
20	RTIL	Green	PAPI Left 3°	NIL	NIL	2 000 M 60 M White, LIM	Red	NIL	NIL

VTCN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: At tower building, FLG W G EV 7 SEC IBN: NIL
2	LDI location and LGT Anemometer location and LGT	NIL
3	TWY edge and centre line lighting	Edge: TWY A, B
4	Secondary power supply/switch-over time	Secondary power supply to all tower, PAPI Switch-over time: 15 SEC
5	Remarks	Flares 2 HR PN

VTCN AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True and MAG BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL

VTCN AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	A circle of 5 NM radius centred on NAN DVOR/DME (184832.76N 1004657.31E)
2	Vertical limits	2000 FT/AGL
3	Airspace classification	C
4	ATS unit call sign Language(s)	Nan Tower English, Thai
5	Transition altitude	11000 FT
6	Remarks	NIL

VTCN AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Nan Approach	120.25 MHZ 121.5 MHZ <sup>1)</sup>	As AD OPR HR	<sup>1)</sup> Emergency frequency
TWR	Nan Tower	118.55 MHZ 121.5 MHZ <sup>1)</sup> 236.6 MHZ	As AD OPR HR	
ATIS	Nan Airport	355 KHZ	As AD OPR HR	

VTCN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB	NN	355 KHZ	H24	184826.00N 1004711.91E		NDB restriction, orbit coverage in mountain terrain and border limited was check and found as follow: -40 NM from bearing 331-045 DEG (CW) altitude should not below 8000 FT. (due to border limited). -20 NM from bearing 046-160 DEG (CW) altitude should not below 6500 FT. (due to border limited). -50 NM from bearing 161-330 DEG (CW) altitude should not below 7500 FT.

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME	NAN	115.7MHZ CH104X	H24	184832.76N 1004657.31E		DVOR/DME restriction, due to Mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal to 40 NM. At the required altitude in various areas as follow: -RDL 021-110 DEG at 20 NM should not below 8000 FT. -RDL 111-160 DEG at 20 NM should not below 6000 FT. -RDL 161-230 DEG at 40 NM should not below 7000 FT. -RDL 231-250 DEG at 40 NM should not below 9000 FT. -RDL 251-290 DEG at 40 NM should not below 11000 FT. -RDL 291-350 DEG at 40 NM should not below 9000 FT. -RDL 351-020 DEG at 40 NM should not below 8000 FT.
ILS CAT I RWY02 LOC/DME	INAN	110.3MHZ CH40X	H24	184903.30N 1004714.13E	687.34 FT	LOC designated operation coverage 18 NM, ALT 7000 FT AMSL
DME			H24	184904.17N 1004711.85E		DME paired with LOC FREQ
GP		335MHZ	H24	184808.72N 1004648.08E		GP 3.4 DEG, RDH 58 FT

**VTCN AD 2.20 LOCAL AERODROME REGULATIONS**

To prevent runway pavement damage which may result in the closure of the aerodrome if such damage is severe, aircraft code letter C or higher shall make 180 degrees turn at the runway turn pads located on left side of runway 20 (near the threshold of runway 20). Any breach done by the aircraft operator shall be recorded and reported to The Civil Aviation Authority of Thailand/the Headquarters of that operator and shall be liable for the compensation caused by such violation

**VTCN AD 2.21 NOISE ABATEMENT PROCEDURES**

NIL

**VTCN AD 2.22 FLIGHT PROCEDURES**

NIL

**VTCN AD 2.23 ADDITIONAL INFORMATION**

NIL

**VTCN AD 2.24 CHARTS RELATED TO AN AERODROME**

Chart name	Page
Aerodrome Chart - ICAO	AD 2-VTCN-2-1
Instrument Approach Chart - ICAO - NDB RWY 02 CAT A, B	AD 2-VTCN-8-1
Instrument Approach Chart - ICAO - NDB RWY 02 CAT A, B (Fix and point list table)	AD 2-VTCN-8-2
Instrument Approach Chart - ICAO - NDB RWY 02 CAT C, D	AD 2-VTCN-8-3
Instrument Approach Chart - ICAO - NDB RWY 02 CAT C, D (Fix and point list table)	AD 2-VTCN-8-4
Instrument Approach Chart - ICAO - VOR RWY 02	AD 2-VTCN-8-5
Instrument Approach Chart - ICAO - VOR RWY 02 (Fix and point list table)	AD 2-VTCN-8-6

Chart name	Page
Instrument Approach Chart - ICAO - VOR RWY 20	AD 2-VTCN-8-7
Instrument Approach Chart - ICAO - VOR RWY 20 (Fix and point list table)	AD 2-VTCN-8-8
Instrument Approach Chart - ICAO - RNP RWY 02	AD 2-VTCN-8-9
Instrument Approach Chart - ICAO - RNP RWY 02 (Tabular description)	AD 2-VTCN-8-10
Instrument Approach Chart - ICAO - RNP RWY 20	AD 2-VTCN-8-11
Instrument Approach Chart - ICAO - RNP RWY 20 (Tabular description)	AD 2-VTCN-8-12

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**AERODROME CHART - ICAO**

18 48 28 N  
100 47 00 E

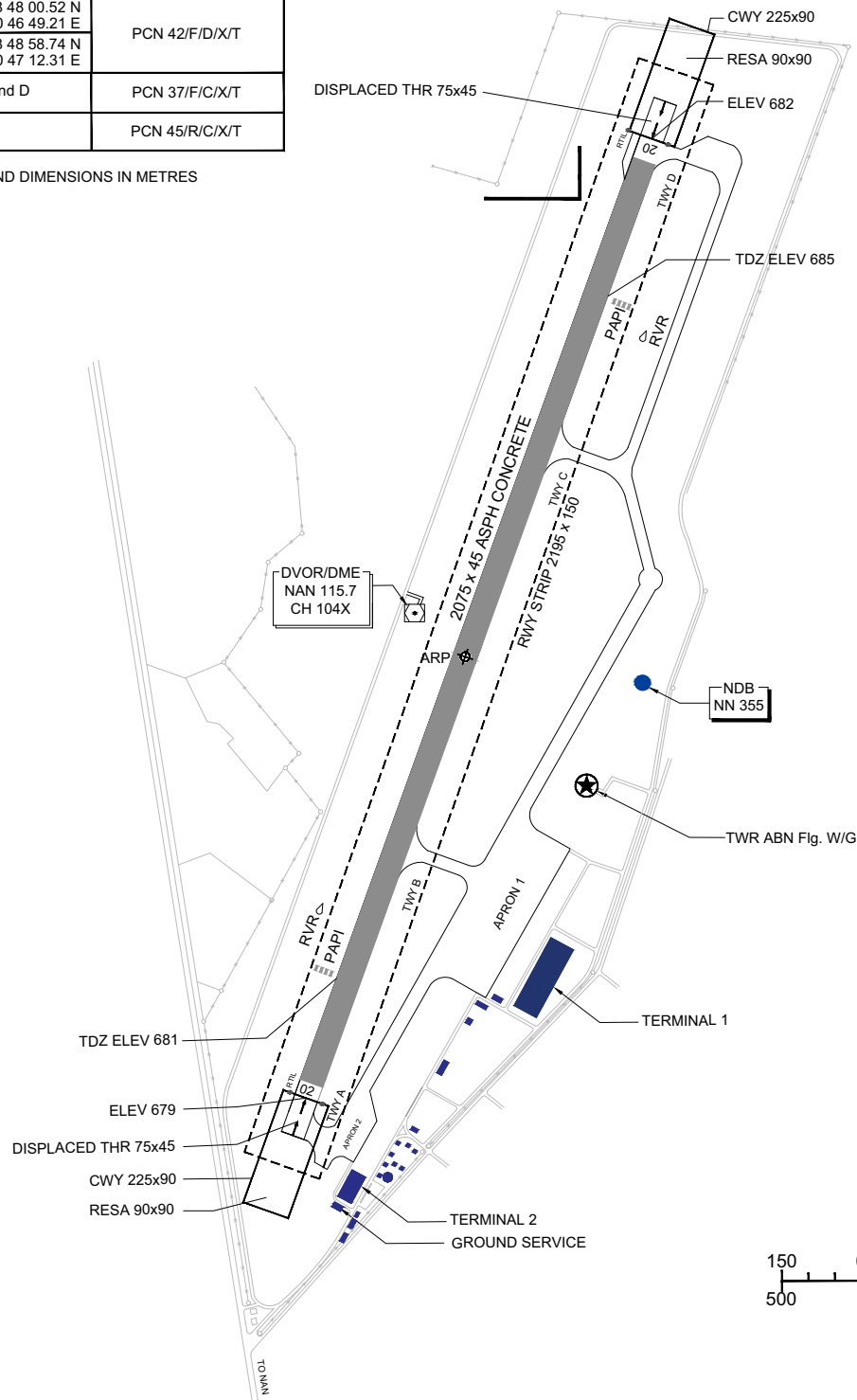
**ELEV 685 FT**

**TWR** 118.55  
236.60

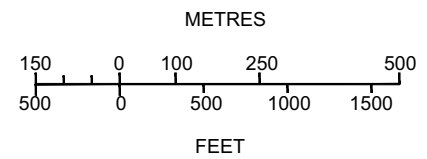
**NAN / Nan Nakhon**

RWY	DIRECTION (TRUE BRG)	THR	BEARING STRENGTH
02	20.12	18 48 00.52 N 100 46 49.21 E	PCN 42/F/D/X/T
20	200.12	18 48 58.74 N 100 47 12.31 E	
TAXIWAY A,B,C and D			PCN 37/F/C/X/T
APRON			PCN 45/R/C/X/T

ELEVATIONS IN FEET AND DIMENSIONS IN METRES

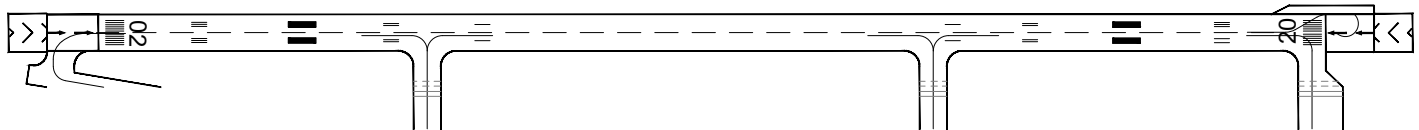


MAG VAR 0.85°W (2016)  
ANNUAL RATE OF CHANGE 0.0°E

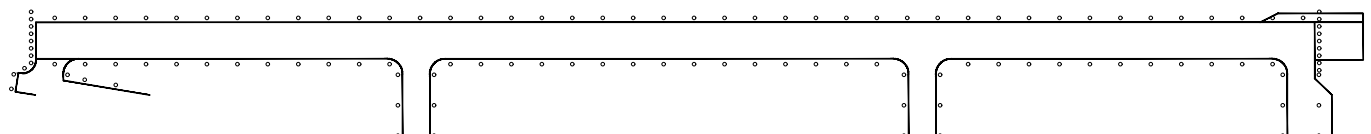


CHANGE : REVISED CHART. THR 02 COORD. RWY DIMS. RWY STRIP DIMS. DISPLACED THR DIMS. CWY DIMS. RESA DIMS. RTIL RWY 02/20 ADDED. CANCELLED RIGHT PAPI 02.

MARKING AIDS RWY 02/20 AND EXIT TWY



LIGHTING AIDS RWY 02/20 AND EXIT TWY



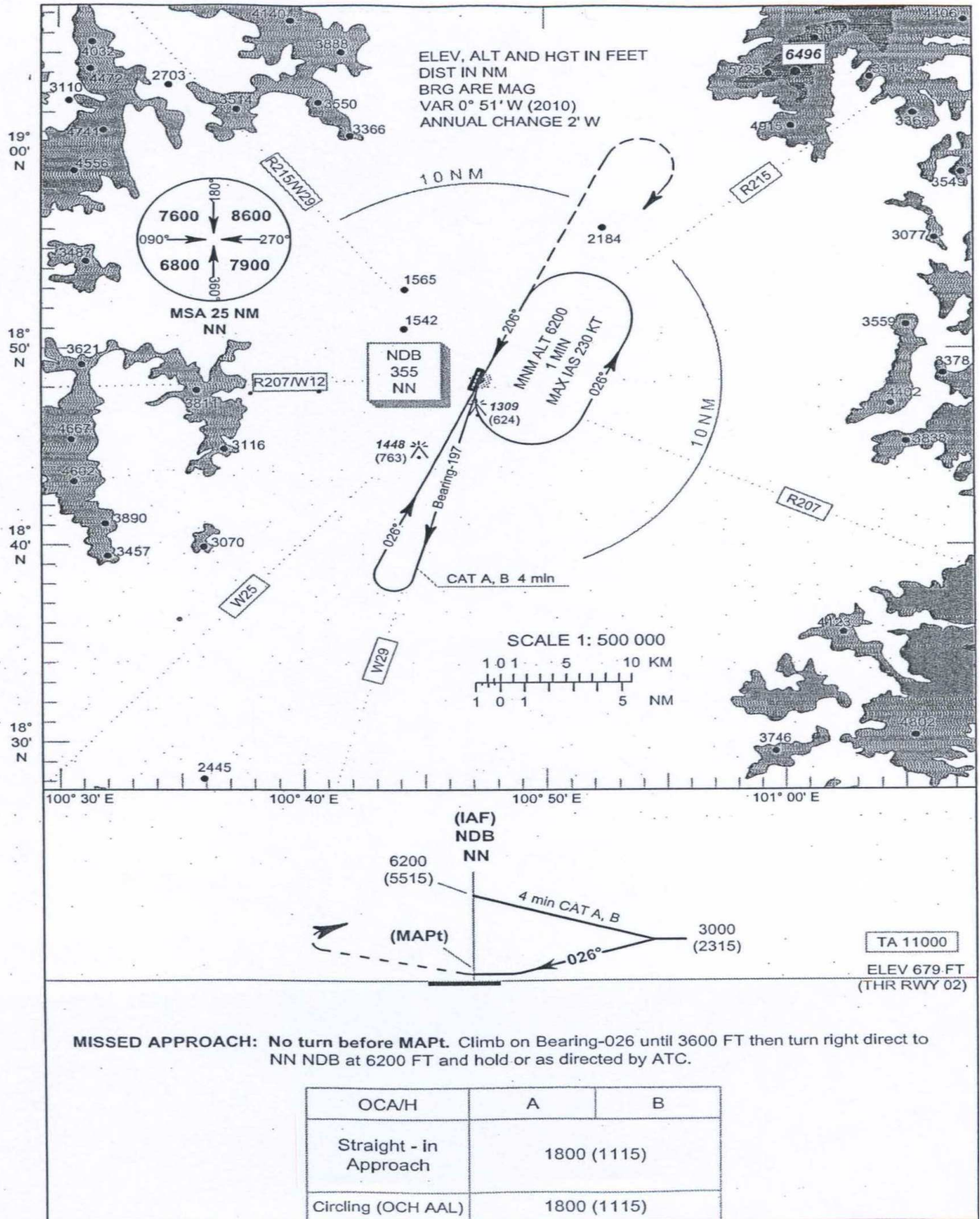
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INSTRUMENT  
APPROACH  
CHART - ICAO

AERODROME ELEV 685 FT  
HEIGHTS RELATED TO  
AERODROME ELEV

APP : 120.25  
TWR : 118.55 , 236.6

NAN / Nan (VTCN)  
NDB RWY02  
CAT A, B



Date: Aug 2013

NAN / Nan (VTCN)

NDB RWY02  
CAT A, B

Fixes / Points		Coordinates	
MAPt	NN	18 48 26.00 N 18 48.43 N	100 47 11.91 E 100 47.20 E
THR RWY 02	-	18 47 58.24 N 18 47.97 N	100 46 48.31 E 100 46.81 E
NDB	NN	18 48 26.00 N 18 48.43 N	100 47 11.91 E 100 47.20 E

Date: Aug 2013



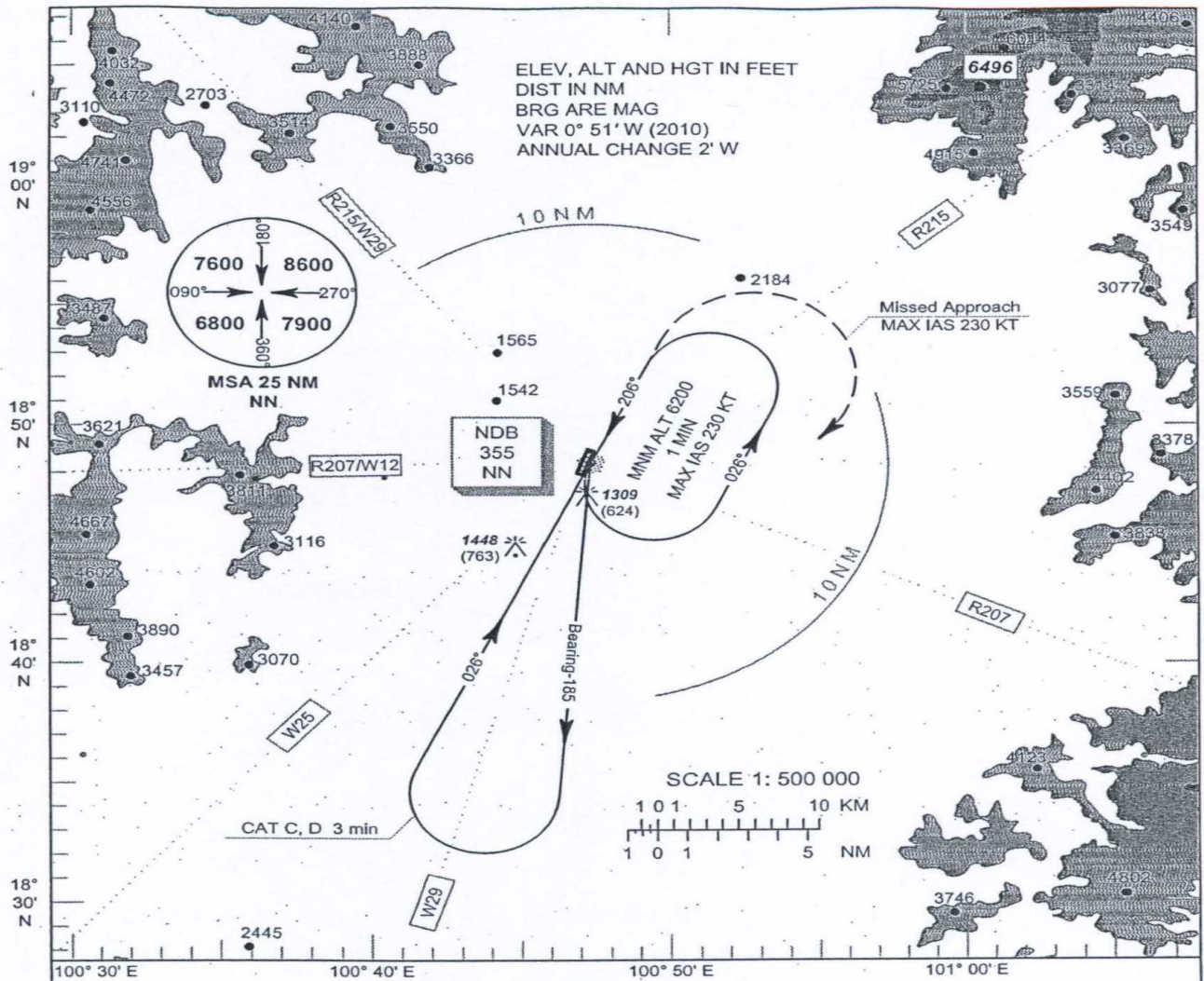
**INSTRUMENT  
APPROACH  
CHART - ICAO**

**AERODROME ELEV 685 FT  
HEIGHTS RELATED TO  
AERODROME ELEV**

APP : 120.25  
TWR : 118.55 , 236.6

NAN / Nan (VTCN)

**NDB RWY02  
CAT C, D**



**MISSED APPROACH:** No turn before MAPt. Climb on Bearing-026 until 3500 FT then turn right direct to NN NDB at 6200 FT and hold or as directed by ATC.

OCA/H	C	D
Straight - in Approach	2800 (2115)	
Circling (OCH AAL)	2800 (2115)	

Date: Aug 2013

NAN / Nan (VTCN)

NDB RWY02  
CAT C, D

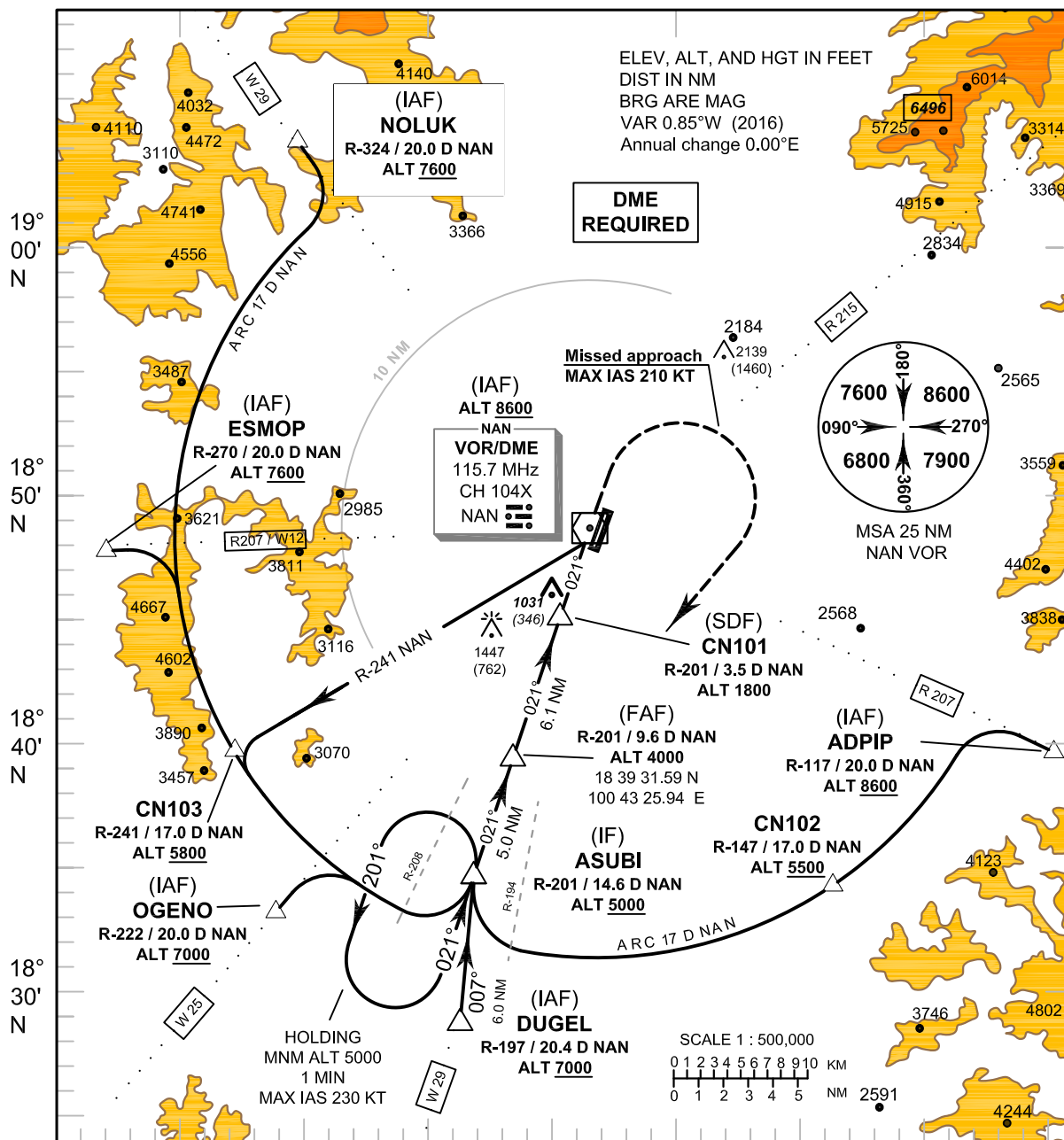
Fixes / Points		Coordinates	
MAPt	NN	18 48 26.00 N 18 48.43 N	100 47 11.91 E 100 47.20 E
THR RWY 02	-	18 47 58.24 N 18 47.97 N	100 46 48.31 E 100 46.81 E
NDB	NN	18 48 26.00 N 18 48.43 N	100 47 11.91 E 100 47.20 E

Date: Aug 2013

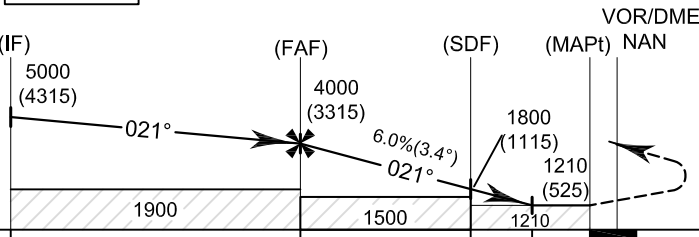
**INSTRUMENT AERODROME ELEV 685 FT**  
**APPROACH HEIGHTS RELATED TO**  
**CHART-ICAO AERODROME ELEV**

APP : 120.25  
TWR : 118.55, 236.6

**NAN/Nan Nakhon (VTCN)**  
**VOR RWY02**



**TA 11 000**



**Missed Approach :**  
**No turn before MAPt.**  
**Speed restricted to**  
**MAX IAS 210 KT until after turn.**  
Climb straight ahead to 1600 FT,  
then turn right to intercept  
outbound R-201 NAN VOR, then  
proceed to **ASUBI** at 5000 FT  
and hold or as directed by ATC.

14.0 9.0 2.9 1.3 0 0 NM FM THR (THR RWY 02)  
14.6 9.6 3.5 1.9 0.6 0 DME FM VOR / DME

OCA/H	A	B	C	D	Distance (NAN)	FAF	9 D	8 D	7 D	6 D	5 D	4 D	3 D	1.9 D
Straight-in approach	1210 (525)				Altitude (Height)	4000 (3315)	3795 (3110)	3435 (2750)	3070 (2385)	2705 (2020)	2340 (1655)	1975 (1290)	1610 (925)	1210 (525)
					Ground Speed	knot		70	90	100	120	140	160	
Circling (OCH AAL)	1500 (815)		2100 (1415)		Rate of descent (6.0%)	(ft/min)		425	547	608	729	851	972	

CHANGE: REALIGNMENT.

**INSTRUMENT** AERODROME ELEV 685 FT  
**APPROACH** HEIGHTS RELATED TO  
**CHART-ICAO** AERODROME ELEV

NAN/Nan Nakhon (VTCN)  
VOR RWY02

Fix / Point		Coordinates	
VOR (IAF)	NAN	18 48 32.76 N	100 46 57.31 E
ADPIP (IAF)	R - 117 / 20.0 D NAN	18 39 46.40 N	101 05 54.67 E
CN102	R - 147 / 17.0 D NAN	18 34 24.99 N	100 56 59.93 E
NOLUK (IAF)	R - 324 / 20.0 D NAN	19 04 38.32 N	100 34 20.30 E
ESMOP (IAF)	R - 270 / 20.0 D NAN	18 48 07.91 N	100 25 52.62 E
CN103	R - 241 / 17.0 D NAN	18 40 00.13 N	100 31 26.91 E
OGENO (IAF)	R - 222 / 20.0 D NAN	18 33 27.22 N	100 33 07.59 E
DUGEL (IAF)	R - 197 / 20.4 D NAN	18 28 53.32 N	100 40 57.94 E
ASUBI (IF)	R - 201/ 14.6 D NAN	18 34 49.75 N	100 41 36.01 E
(FAF)	R - 201 / 9.6 D NAN	18 39 31.59 N	100 43 25.94 E
CN101 (SDF)	R - 201 / 3.5 D NAN	18 45 10.33 N	100 45 38.20 E
(MAPt)	R - 201 / 0.6 D NAN	18 48 01.94 N	100 46 45.26 E

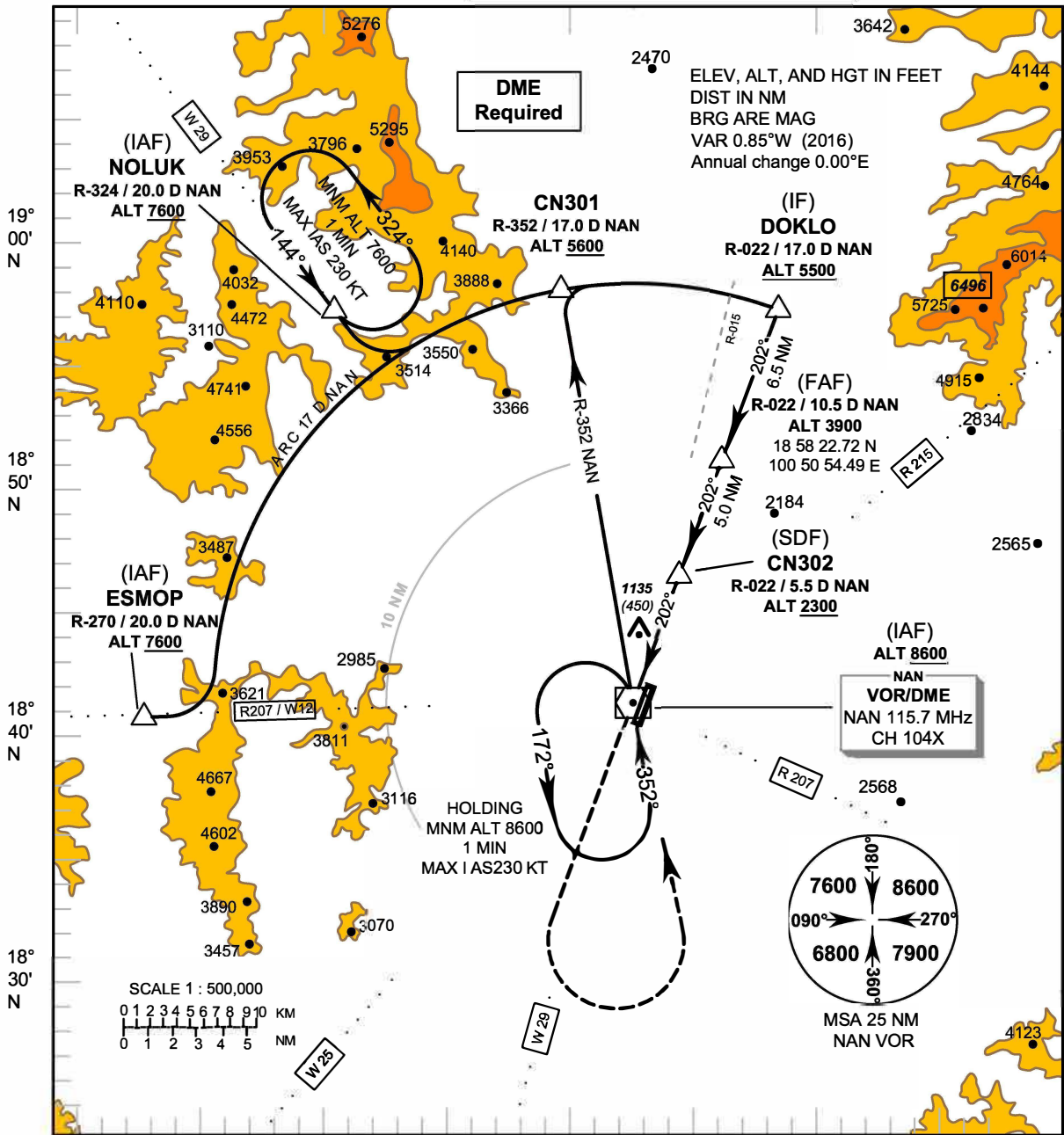
CHANGE: MAPt COORD.



**INSTRUMENT AERODROME ELEV 685 FT**  
**APPROACH HEIGHTS RELATED TO**  
**CHART-ICAO AERODROME ELEV**

APP : 120.25  
TWR : 118.55, 236.6

**NAN/Nan Nakhon (VTCN)**  
**VOR RWY20**

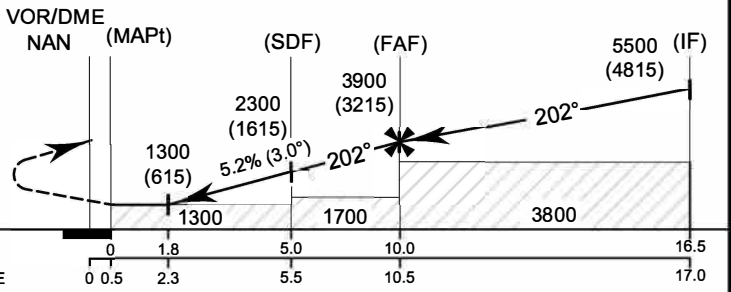


100° 20' E      100° 30' E      100° 40' E      100° 50' E

**TA 11000**

**Missed Approach :**  
**No turn before MAPt.**  
Climb straight ahead to 3000 FT,  
then turn left to intercept inbound  
R-172 NAN VOR, then proceed to  
NAN VOR at 8600 FT and hold or as  
directed by ATC.

ELEV 682 FT  
(THR RWY 20)



OCA/H	A	B	C	D	Distance (NAN)										
					2.3 D	3 D	4 D	5 D	6 D	7 D	8 D	9 D	10 D	FAF	
Straight-in approach	1300 (615)				1300 (615)	1525 (840)	1840 (1155)	2155 (1470)	2475 (1790)	2790 (2105)	3105 (2420)	3420 (2735)	3735 (3050)	3900 (3215)	
					Ground Speed			knot	70	90	100	120	140	160	
Circling (OCH AAL)	1500 (815)	2100 (1415)			Rate of descent (5.2%)			(ft/min)	369	474	527	632	737	843	

September 2017

**INSTRUMENT AERODROME ELEV 685 FT**  
**APPROACH HEIGHTS RELATED TO**  
**CHART-ICAO AERODROME ELEV**

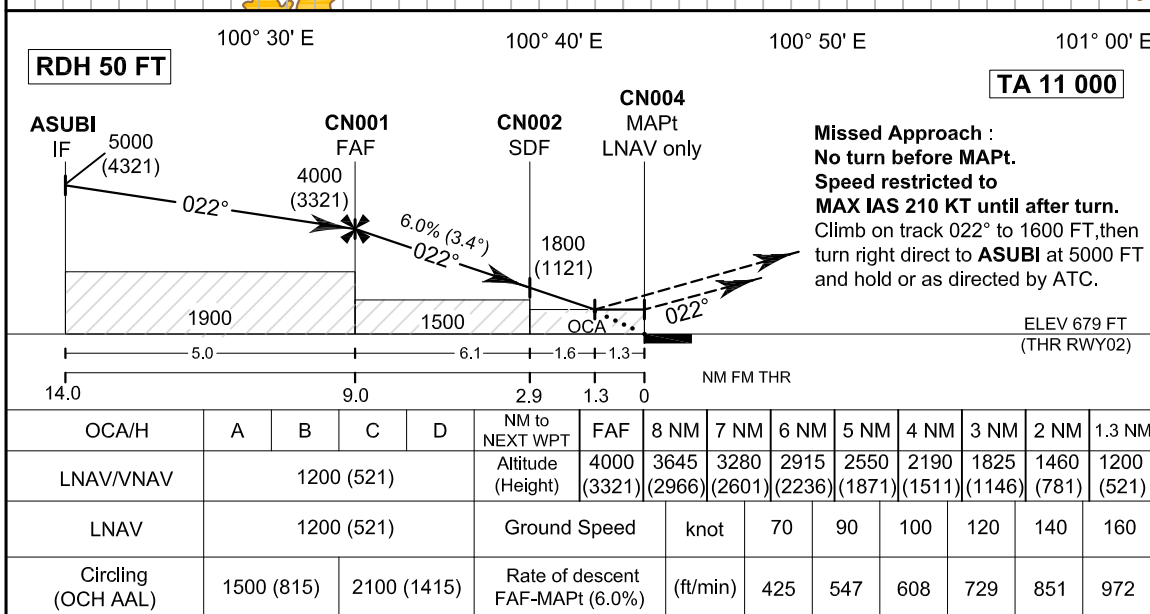
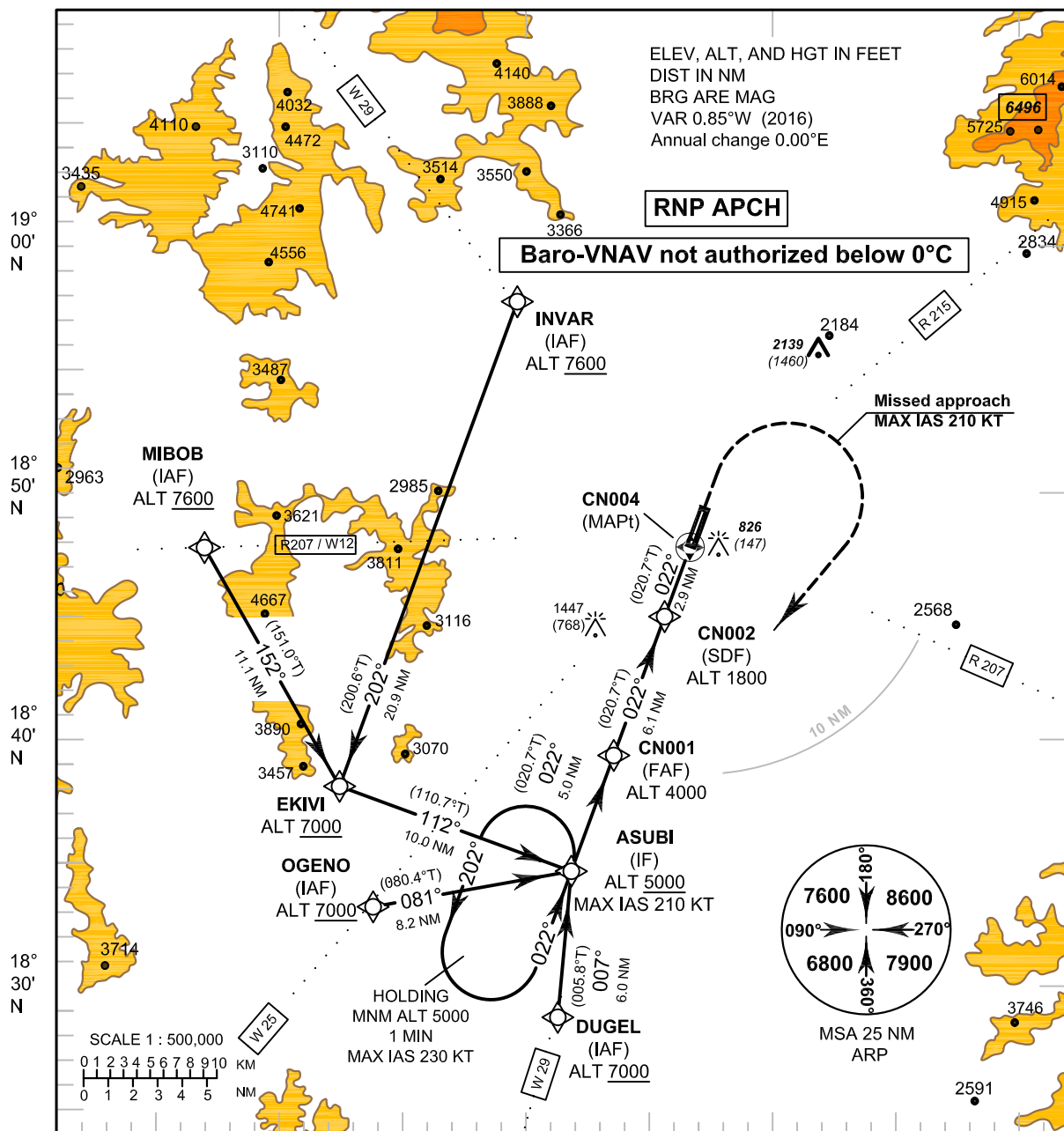
**NAN/Nan Nakhon (VTCN)**  
**VOR RWY20**

Fix / Point		Coordinates	
VOR (IAF)	NAN	18 48 32.76 N	100 46 57.31 E
ESMOP (IAF)	R - 270 / 20.0 D NAN	18 48 07.91 N	100 25 52.62 E
NOLUK (IAF)	R - 324 / 20.0 D NAN	19 04 38.32 N	100 34 20.30 E
CN301	R - 352 / 17.0 D NAN	19 05 23.21 N	100 44 03.17 E
DOKLO (IF)	R - 022 / 17.0 D NAN	19 04 29.04 N	100 53 22.01 E
(FAF)	R - 022 / 10.5 D NAN	18 58 22.72 N	100 50 54.49 E
CN302 (SDF)	R - 022 / 5.5 D NAN	18 53 41.45 N	100 49 01.35 E
(MAPt)	R - 022 / 0.5 D NAN	18 49 00.17 N	100 47 08.34 E

**INSTRUMENT AERODROME ELEV 685 FT**  
**APPROACH HEIGHTS RELATED TO**  
**CHART-ICAO THR RWY02 - ELEV 679 FT**

APP : 120.25  
TWR : 118.55, 236.6

**NAN/Nan Nakhon (VTCN)**  
**RNP RWY02**



CHANGE: REALIGNMENT.

**INSTRUMENT AERODROME ELEV 685 FT**  
**APPROACH HEIGHTS RELATED TO**  
**CHART-ICAO THR RWY02 - ELEV 679 FT**

**NAN/Nan Nakhon (VTCN)**  
**RNP RWY02**

**TABULAR DESCRIPTION**

RNP RWY02											
Serial Number	Path Descriptor	Waypoint Identifier	Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/TCH	Navigation Specification
010	IF	DUGEL (IAF)	-	-	+0.85	-	-	+7000	-	-	RNP APCH
020	TF	ASUBI (IF)	-	007°(005.8°)	+0.85	6.0	-	+5000	-210	-	RNP APCH
010	IF	OGENO (IAF)	-	-	+0.85	-	-	+7000	-	-	RNP APCH
020	TF	ASUBI (IF)	-	081°(080.4°)	+0.85	8.2	-	+5000	-210	-	RNP APCH
010	IF	MIBOB (IAF)	-	-	+0.85	-	-	+7600	-	-	RNP APCH
020	TF	EKMI	-	152°(151.0°)	+0.85	11.1	L	+7000	-	-	RNP APCH
030	TF	ASUBI (IF)	-	112°(110.7°)	+0.85	10.0	-	+5000	-210	-	RNP APCH
010	IF	INVAR (IAF)	-	-	+0.85	-	-	+7600	-	-	RNP APCH
020	TF	EKMI	-	202°(200.6°)	+0.85	20.9	L	+7000	-	-	RNP APCH
030	TF	ASUBI (IF)	-	112°(110.7°)	+0.85	10.0	-	+5000	-210	-	RNP APCH
010	IF	ASUBI (IF)	-	-	+0.85	-	-	+5000	-210	-	RNP APCH
020	TF	CN001 (FAF)	-	022°(020.7°)	+0.85	5.0	-	@4000	-	-	RNP APCH
030	TF	CN002 (SDF)	-	022°(020.7°)	+0.85	6.1	-	@1800	-	-	RNP APCH
040	TF	CN004 (MAPt)	Y	022°(020.7°)	+0.85	2.9	-	@729	-	-3.4 / 50	RNP APCH
050	CA	-	-	022°(020.7°)	+0.85	-	-	+1600	-	-	RNP APCH
060	DF	ASUBI (IF)	-	-	+0.85	-	R	+5000	-210	-	RNP APCH
070	HM	ASUBI (IF)	Y	022°(020.7°)	+0.85	1 minute	L	+5000	-230	-	RNP APCH

**WAYPOINT LIST**

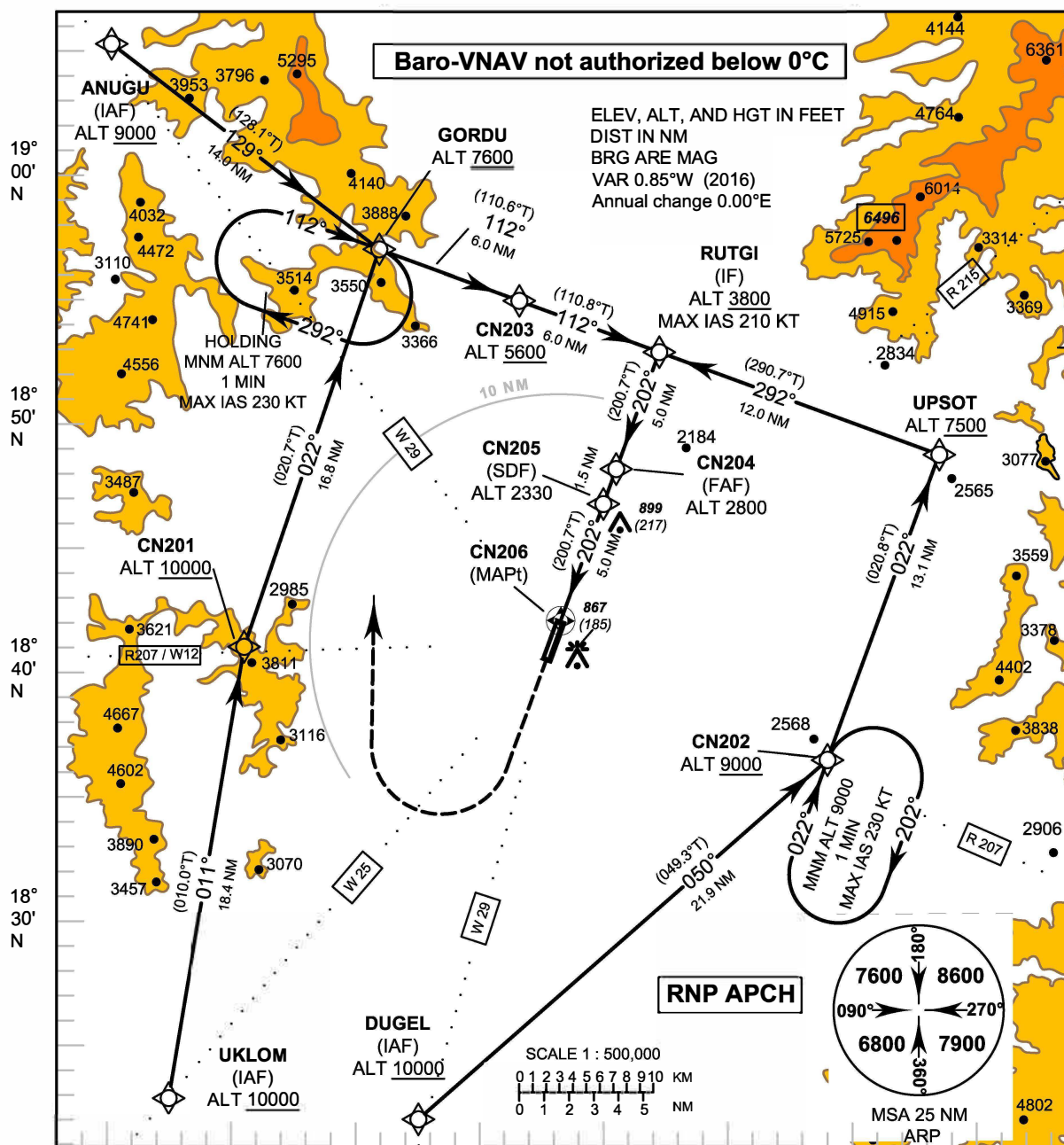
RNP RWY02		
Waypoint Identifier	Coordinates	
INVAR	18° 58' 02.05" N	100° 39' 31.36" E
MIBOB	18° 48' 08.12" N	100° 26' 03.27" E
EKMI	18° 38' 22.25" N	100° 31' 44.36" E
OGENO	18° 33' 27.22" N	100° 33' 07.59" E
DUGEL	18° 28' 53.32" N	100° 40' 57.94" E
ASUBI	18° 34' 49.75" N	100° 41' 36.01" E
CN001	18° 39' 31.54" N	100° 43' 27.52" E
CN002	18° 45' 14.84" N	100° 45' 43.49" E
CN004 (THR02)	18° 48' 00.52" N	100° 46' 49.21" E

CHANGE: THR COORD.

**INSTRUMENT AERODROME ELEV 685 FT**  
**APPROACH HEIGHTS RELATED TO**  
**CHART-ICAO THR RWY20 - ELEV 682 FT**

APP : 120.25  
TWR : 118.55, 236.6

**NAN/Nan Nakhon (VTCN)**  
**RNP RWY20**

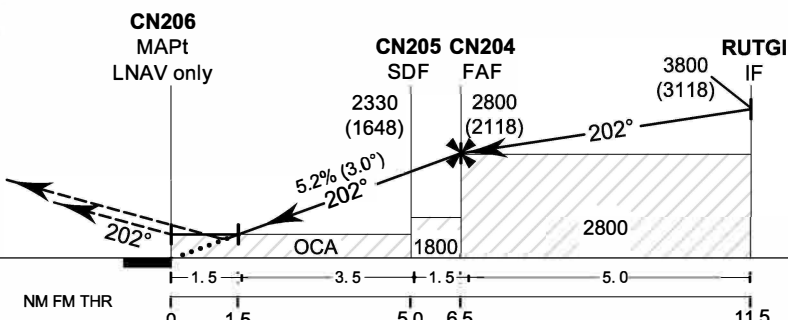


**TA 11 000**

**RDH 50 FT**

**Missed Approach :**  
**No turn before MAPt.**  
Climb on track 202° to 3300 FT,  
then turn right direct to **GORDU**  
at 7600 FT and hold or as  
directed by ATC.

ELEV 682 FT  
(THR RWY20)



CHANGE: CHART TITLE.

OCA/H	A	B	C	D	NM to NEXT WPT	1.5 NM	2 NM	3 NM	4 NM	5 NM	6 NM	FAF
LNAV/VNAV	1030 (348)				Altitude (Height)	1200 (518)	1365 (683)	1680 (998)	1995 (1313)	2310 (1628)	2630 (1948)	2800 (2118)
LNAV	1200 (518)				Ground Speed	knot	70	90	100	120	140	160
Circling (OCH AAL)	1500 (815)		2100 (1415)		Rate of descent FAF-MAPt (5.2%)	(ft/min)	369	474	527	632	737	843

INSTRUMENT AERODROME ELEV 685 FT  
APPROACH HEIGHTS RELATED TO  
CHART-ICAO THR RWY20 - ELEV 682 FT

NAN/Nan Nakhon (VTCN)  
RNP RWY20

### TABULAR DESCRIPTION

RNP RWY20											
Serial	Path	Waypoint Identifier	Flyover	Course	Magnetic	Distance	Turn	Altitude	Speed	VPA/	Navigation
Number	Descriptor			° M (° T)	Variation	(NM)	Direction	(FT)	(KT)	TCH	Specification
010	IF	DUGEL (IAF)	-	-	+0.85	-	-	+10000	-	-	RNP APCH
020	TF	CN202	-	050°(049.3°)	+0.85	21.9	L	+9000	-	-	RNP APCH
030	TF	UPSOT	-	022°(020.8°)	+0.85	13.1	L	+7500	-	-	RNP APCH
040	TF	RUTGI (IF)	-	292°(290.7°)	+0.85	12.0	-	+3800	-210	-	RNP APCH
010	IF	ANUGU (IAF)	-	-	+0.85	-	-	+9000	-	-	RNP APCH
020	TF	GORDU	-	129°(128.1°)	+0.85	14.0	L	+7600	-	-	RNP APCH
030	TF	CN203	-	112°(110.6°)	+0.85	6.0	-	+5600	-	-	RNP APCH
040	TF	RUTGI (IF)	-	112°(110.8°)	+0.85	6.0	-	+3800	-210	-	RNP APCH
010	IF	UKLOM (IAF)	-	-	+0.85	-	-	+10000	-	-	RNP APCH
020	TF	CN201	-	011°(010.0°)	+0.85	18.4	R	+10000	-	-	RNP APCH
030	TF	GORDU	-	022°(020.7°)	+0.85	16.8	R	+7600	-	-	RNP APCH
040	TF	CN203	-	112°(110.6°)	+0.85	6.0	-	+5600	-	-	RNP APCH
050	TF	RUTGI (IF)	-	112°(110.8°)	+0.85	6.0	-	+3800	-210	-	RNP APCH
010	IF	RUTGI (IF)	-	-	+0.85	-	-	+3800	-210	-	RNP APCH
020	TF	CN204 (FAF)	-	202°(200.7°)	+0.85	5.0	-	@2800	-	-	RNP APCH
030	TF	CN205 (SDF)	-	202°(200.7°)	+0.85	1.5	-	@2330	-	-	RNP APCH
040	TF	CN206 (MAPt)	Y	202°(200.7°)	+0.85	5.0	-	@732	-	-3.0 / 50	RNP APCH
050	CA	-	-	202°(200.7°)	+0.85	-	-	+3300	-	-	RNP APCH
060	DF	GORDU	-	-	+0.85	-	R	+7600	-	-	RNP APCH
070	HM	GORDU	Y	112°(110.6°)	+0.85	1 minute	R	+7600	-230	-	RNP APCH

### WAYPOINT LIST

RNP RWY20		
Waypoint Identifier	Coordinates	
UKLOM	18° 30' 05.00" N	100° 30' 02.76" E
CN201	18° 48' 17.06" N	100° 33' 24.54" E
ANUGU	19° 12' 40.76" N	100° 28' 00.88" E
GORDU	19° 04' 02.04" N	100° 39' 38.68" E
CN203	19° 01' 55.14" N	100° 45' 34.52" E
DUGEL	18° 28' 53.32" N	100° 40' 57.94" E
CN202	18° 43' 14.06" N	100° 58' 26.68" E
UPSOT	18° 55' 30.53" N	101° 03' 20.04" E
RUTGI	18° 59' 46.66" N	100° 51' 29.66" E
CN204	18° 55' 04.97" N	100° 49' 37.70" E
CN205	18° 53' 40.46" N	100° 49' 04.13" E
CN206 (THR20)	18° 48' 58.74" N	100° 47' 12.31" E