VTUI AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VTUI - SAKON NAKHON / SAKON NAKHON AIRPORT

VTUI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	171142.51N 1040707.06E
2	Direction and distance from (city)	12 KM N from city
3	Elevation/Reference temperature	529 FT
4	Geoid Undulation at AD ELEV PSN	NIL
5	MAG VAR/Annual change	0.93°W(2016)/0.02°W
6	AD Administration, address, telephone, telefax, telex, AFS	Director of Sakon Nakhon Airport Sakon Nakhon Airport Sakon Nakhon-Nakhon Phanom Road, Thatnaweng, Mueang Sakon Nakhon, Sakon Nakhon 47000 Thailand Tel: +664 272 4044-5 Fax: +664 272 4041 AFS: VTUIYDYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Operator: Department of Airports

VTUI AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	2300-1100
2	Customs and immigration	NIL
3	Health and sanitation	NIL
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	2300-1100
6	MET Briefing Office	NIL
7	ATS	2300-1100
8	Fuelling	NIL
9	Handling	NIL
10	Security	NIL
11	De-icing	NIL
12	Remarks	ATS Reporting Office (ARO): Located at Udon Thani Air Traffic Control Centre (1st floor of tower building) Tel: +664 223 0124 +669 2262 3477 Fax: +664 224 2797

VTUI 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

VTUI AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city
2	Restaurants	In the city
3	Transportation	Limousine and Car rental
4	Medical facilities	Hospital in the city
5	Bank and Post Office	NIL
6	Tourist Office	NIL
7	Remarks	NIL

VTUI 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

VTUI AD 2.7 SEASONAL AVAILABILITY - CLEARING

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

VTUI AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	Apron A (EAST) Surface: Concrete Strength: PCN 47/R/D/X/T Apron A (WEST) Surface: Concrete Strength: PCN 47/R/C/X/T
2	Taxiway width, surface and strength	TWY A, B and C Width: 23 M Surface: Asphalt Concrete Strength: PCN 43/F/D/X/T TWY D Width: 23 M Surface: Asphalt Concrete Strength: PCN 46/F/C/X/T
3	Altimeter checkpoint location and elevation	Location: At apron Elevation: 534 FT (162.61 M)
4	VOR checkpoints	NIL
5	INS checkpoints	NIL
6	Remarks	NIL

VTUI 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	Aircraft parking shall follow marshaller instructions
2	RWY and TWY markings and LGT	RWY marking: RWY Designation, THR, TDZ, CL, Aiming Point and Side Stripe RWY LGT: THR, RWY Edge and RWY End TWY marking: CL, Edge and RWY Holding Position TWY LGT: TWY Edge
3	Stop bars	NIL
4	Remarks	NIL

VTUI 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**	
RWY 05/APCH area RWY 23/TKOF area	Billboard 565 FT (172.21 M) NIL / NIL	171102.92N 1040631.98E	AWOS 557 FT (169.78 M) Painted red/white LGTD	171204.57N 1040725.55E	
	Road sign 565 FT (172.28 M) NIL / NIL	171108.34N 1040625.12E	AWOS 554 FT (169 M) Painted red/white LGTD	171204.71N 1040725.70E	
	Building 558 FT (170 M) NIL / NIL	171108.58N 1040627.79E	AWOS 565 FT (172.30 M) Painted red/white LGTD	171205.78N 1040726.82E	

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	
	High voltage pole 685 FT (208.82 M) NIL / LGTD	171039.18N 1040542.57E	AWOS 565 FT (172.30 M) Painted red/white LGTD	171205.85N 1040726.89E	
	High voltage pole 690 FT (210.21 M) NIL / LGTD	171029.37N 1040546.69E	AWOS 566 FT (172.49 M) Painted red/white LGTD	171123.68N 1040642.27E	
RWY 05/APCH area RWY 23/TKOF area	High voltage pole 690 FT (210.35 M) NIL / LGTD	171020.33N 1040550.51E	AWOS 566 FT (172.44 M) Painted red/white LGTD	171123.63N 1040642.22E	
	High voltage pole 677 FT (206.38 M) NIL / LGTD	171011.45N 1040554.25E	Glide slope 581 FT (177.11 M) Painted red/white LGTD	171208.04N 1040728.89E	
	Telecommunication mast 692 FT (210.95 M) NIL / LGTD	171054.21N 1040556.88E	Water tank 623 FT (189.79 M) Painted red/white NIL	171108.38N 1040641.39E	
	Telecommunication mast 683 FT (208.05 M) NIL / LGTD	171051.27N 1040555.96E	Water tank 623 FT (190.02 M) Painted red/white NIL	171107.24N 1040640.83E	
RWY 05/APCH area RWY 23/TKOF area	Telecommunication mast 702 FT (213.95 M) NIL / LGTD	171049.83N 1040557.70E	Radio mast 969 FT (295.48 M) Painted red/white LGTD	171212.06N 1040612.10E	
	Building 577 FT (175.83 M) NIL / NIL	171110.20N 1040625.38E	Radio mast 943 FT (287.48 M) Painted red/white LGTD	171212.93N 1040603.60E	
	DME 552 FT (168.19 M) Painted red/white NIL	171106.04N 1040632.62E	Radio mast 748 FT (228 M) Painted red/white LGTD	171122.86N 1040541.29E	
			Radio mast 721 FT (219.72 M) Painted red/white LGTD	171118.60N 1040610.74E	
			Radio mast 714 FT (217.65 M) Painted red/white LGTD	171107.80N 1040646.47E	
			Radio mast 691 FT (210.53 M) Painted red/white LGTD	171107.13N 1040646.94E	
			Radio mast 1003 FT (305.67 M) Painted red/white LGTD	171042.72N 1040450.12E	

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	
			Radio mast 753 FT (229.57 M) Painted red/white LGTD	171142.38N 1040516.89E	
			Radio mast 739 FT (225.23 M) Painted red/white LGTD	171326.78N 1040625.77E	
			Radio mast 738 FT (224.84 M) Painted red/white LGTD	171326.98N 1040624.87E	
			Radio mast 843 FT (256.96 M) Painted red/white LGTD	170930.62N 1040747.19E	
			Radio mast 689 FT (210.16 M) Painted red/white	170924.19N 1040748.64E	
			Radio mast 753 FT (229.64 M) Painted red/white LGTD	170933.74N 1040756.50E	
			Radio mast 720 FT (219.60 M) Painted red/ white LGTD	170917.59N 1040755.09E	
			Telecommunication mast 911 FT (277.70 M) Painted red/white LGTD	171006.54N 1040837.74E	
			Telecommunication mast 682 FT (208 M) Painted red/white LGTD	171044.15N 1040736.92E	
			Telecommunication mast 708 FT (215.74 M) Painted red/white LGTD	171208.90N 1040554.81E	
			Telecommunication mast 697 FT (212.58 M) Painted red/white LGTD	171148.18N 1040536.70E	
			Telecommunication mast 710 FT (216.34 M) Painted red/white LGTD	171145.02N 1040532.02E	

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	
			Telecommunication mast 705 FT (214.82 M) NIL / LGTD	171343.60N 1040617.66E	
			Telecommunication mast 746 FT (227.38 M) Painted red/white LGTD	171418.09N 1040630.19E	
			Telecommunication mast 717 FT (218.66 M) NIL / LGTD	170930.47N 1040746.96E	
			Telecommunication mast 700 FT (213.37 M) NIL / LGTD	170919.33N 1040711.28E	
			Telecommunication mast 794 FT (242 M) Painted red/white LGTD	170937.09N 1040819.64E	
			Apron Flood light pole 620 FT (188.95 M) NIL / LGTD	171148.83N 1040701.48E	
			Apron Flood light pole 620 FT (189.01 M) NIL / LGTD	171147.47N 1040700.05E	
			Apron Flood light pole 620 FT (189.04 M) NIL / LGTD	171146.11N 1040658.63E	
			Apron Flood light pole 621 FT (189.19 M) NIL / LGTD	171144.96N 1040657.43E	
			Apron Flood light pole 621 FT (189.15 M) NIL / LGTD	171143.82N 1040656.25E	
			Lightning rod on top of building 605 FT (184.51 M) NIL / NIL	171148.11N 1040659.37E	
			ATC tower (Old) 593 FT (180.72 M) Painted red/white NIL	171127.43N 1040700.68E	
			ATC Tower 653 FT (199.08 M) Painted red/white LGTD	171146.23N 1040657.29E	

VTUI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Aeronautical Meteorological Station-Sakon Nakhon, Upper Northeastern Meteorological Center, Thai Meteorological Department (TMD)
2	Hours of service MET Office outside hours	2200-1500 NIL
3	Office responsible for TAF preparation Periods of validity	Supply TAF from Upper Northeastern Meteorological Center 24 HR
4	Type of landing forecast Interval of issuance	TREND 1 HR
5	Briefing/consultation provided	Personal Consultation Tel: +664 271 6574 ext. 7613
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) and Weather Radar
9	ATS units provided with information	Sakon Nakhon TWR
10	Additional information (limitation of service, etc.)	NIL

VTUI 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
05	045.50°	2600x45	PCN 43/F/D/X/T Asphaltic Concrete	171112.56N 1040635.89E	THR 529 FT TDZ 529 FT
23	225.50°	2600x45	PCN 43/F/D/X/T Asphaltic Concrete	171212.45N 1040738.22E	THR 526 FT TDZ 526 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
0.0385%	NIL	NIL	2720x300	305x90	NIL	NIL	NIL
0.0385%	NIL	NIL	2720x300	180x90	NIL	NIL	NIL

VTUI AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
05	2600	2600	2600	2600	NIL
23	2600	2600	2600	2600	NIL

VTUI 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
05	NIL	Green NIL	PAPI LEFT 3° (55.77 FT)	NIL	NIL	2600 M 30 M FM 0 M-2000 M White, FM 2000 M- 2600 M Yellow, LIH	Red NIL	NIL	RTIL
23	SALS 420 M LIH	Green NIL	PAPI LEFT 3° (47.48 FT)	NIL	NIL	2600 M 30 M FM 0 M-2000 M White, FM 2000 M-2600 M Yellow, LIH	Red NIL	NIL	NIL

VTUI AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: On top of ATC tower, FLG W G EV 3 SEC. IBN: NIL
2	LDI location and LGT Anemometer location and LGT	LDI: NIL Anemometer: NIL WDI: Wind cone at 1360 M from THR 05 off set to the left side 90 M from RCL, illuminated.
3	TWY edge and centre line lighting	TWY edge: ALL TWY TWY centre line: NIL
4	Secondary power supply/switch-over time	Secondary power supply at Airfield Lighting (AFL) building Switch-over time: 15 SEC.
5	Remarks	NIL

VTUI 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

VTUI AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	A circle of 5 NM radius centred on SKN DVOR/DME (171250.89N 1040812.34E)
2	Vertical limits	2000 FT/AGL
3	Airspace classification	C

4	ATS unit call sign Language(s)	Sakon Nakhon Tower English, Thai
5	Transition altitude	11000 FT
6	Remarks	NIL

VTUI AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Sakon Nakhon Approach	123.35 MHZ 284.0 MHZ 121.5 MHZ 1)	As AD OPR HR	1) Emergency frequency
TWR	Sakon Nakhon Tower	119.65 MHZ 236.6 MHZ 121.5 MHZ 1)	As AD OPR HR	
ATIS	Sakon Nakhon Airport	365.0 KHZ	As AD OPR HR	

VTUI 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	SN	365 KHZ	H24	171149.17N 10406653.42E	NIL	Data refer from commissioning checked as follows: 1. Bearing 181°-360° 50 NM orbit altitude should not below 3 000 FT 2. Bearing 001°-140° 50 NM orbit unable to check due to border limited 3. Bearing 141°-180° unusable beyond 15 NM
DVOR/DME	SKN	114.2 MHZ CH 89X	H24	171250.89N 1040812.34E	NIL	DVOR/DME restriction due to mountainous terrain surround DVOR/ DME station, coverage check does not provide adequate signal at required altitude in various areas as follows: 1. 30 NM orbit (Due to border limited) – Radial 000º-130º altitude should not below 2 100 FT 2. 40 NM orbit – Radial 131º-280º altitude should not below 5 500 FT – Radial 281º-359º altitude should not below 2 100 FT
IILS CAT I RWY 23 LOC	ISKN	110.3 MHZ CH40X	H24	171107.73N 1040630.87E	NIL	Designated operation coverage 18 NM. ALT 6800 FT/AMSL.
DME				171106.06N 1040632.52E	527 FT	Paired with LOC FREQ
GP		335.0 MHZ	H24	171208.11N 1040728.88E	NIL	3 DEG REF Datum height 50 FT

VTUI AD 2.20 LOCAL AERODROME REGULATIONS

1. VFR REPORTING POINTS AND LOCAL PROCEDURES

Reporting points for VFR flight in order to expedite and maintain an orderly flow of air traffic into Sakon Nakhon Airport, the procedures of inbound traffic for VFR flight, conventional and prop - jet aircraft be set up as follows:

a) Aircraft entering to land from north of Sakon Nakhon Airport, shall report over Nong Wai reservoir designated as November Whisky (172205.2N 1040316E) which is approximately 10 NM on radial 334 of SKN DVOR/DME (171250.89N1040812.34E), when reaching NW the aircraft will be instructed to join aerodrome traffic circuit accordingly.
b) Aircraft entering to land from east of Sakon Nakhon Airport, shall report over Hoai Wung reservoir designated as Hotel Whisky (171805.2N 1043056.2E) which is approximately 22.5 NM on radial 077 of SKN DVOR/DME (171250.89N1040812.34E) when reaching HW the aircraft will be instructed to join aerodrome traffic circuit accordingly.
c) Aircraft entering to land from south of Sakon Nakhon Airport, shall report over Nam Phung Dam designated as November Papa (170245.3N 1041216.3E), which is approximately 11 NM on radial 158 of SKN DVOR/DME (171250.89N1040812.34E), when reaching NP the aircraft will be instructed to join aerodrome traffic circuit accordingly.
d) Aircraft entering to land from south of Sakon Nakhon Airport, shall report over Ban Na reservoir, designated as November Kilo (164625.4N 1040201.5E) which is approximately 27 NM on radial 192 of SKN DVOR/DME (171250.89N1040812.34E), when reaching NK the aircraft will be instructed to join aerodrome traffic circuit accordingly.
e) Aircraft entering to land from west of Sakon Nakhon Airport, shall report over Nam Un reservoir, designated as November Uniform (171005.2N 1034646.5E) which is approximately 20.5 NM on radial 262 of SKN DVOR/DME (171250.89N1040812.34E), when reaching NU the aircraft will be instructed to join aerodrome traffic circuit accordingly.

2. 180 DEGREES TURN ON THE RUNWAY

To prevent runway pavement damage which may result in the closure of the aerodrome if such damage is severe, all aircraft Maximum Takeoff Weight (MTOW) more than 5700 KG are not allowed to make 180 degrees turn on the runway. The turn shall be made on the runway turn pad at the end of runway 05 and 23 only. Any breach done by the aircraft operator shall be recorded and reported to The Civil Aviation Authority of Thailand (CAAT)/ The Headquarter of that operator shall be liable for the compensation caused by such violation.

VTUI AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VTUI AD 2.22 FLIGHT PROCEDURES

1. IFR DEPARTURES OTHER THAN VIA SID

IFR departure procedures described below are determined for the purpose of case when an instrument departure via SID is impossible or undesirable.

2. VISUAL DEPARTURES

Visual departures during take-off and initial climb-out are permitted during the daytime and Visual Meteorological Conditions (VMC). ATC clearance to execute a visual departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute a visual departure

- meteorological conditions in the direction of take-off and the following climb-out shall enable visual reference to terrain up to Minimum Sector Altitude (MSA) or Minimum Flight Altitude (MFA) stated in ATC clearance,
- the pilot shall be responsible for obstacle clearance until such specified altitude,
- the pilot prior to take-off shall agree to execute this procedure,
- the ATC clearance shall be readback,

3. OMNIDIRECTIONAL DEPARTURES

Omnidirectional departures during take-off and initial climb-out are permitted during the day and night. ATC clearance to execute an omnidirectional departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute an omnidirectional departure:

- the pilot shall be maintaining a minimum climb gradient up to specific altitude as published shown as below,
- the pilot shall be responsible for adherence to such obtained ATC clearance,
- the pilot prior to take-off shall agree to execute this procedure,
- The ATC clearance shall be readback,

- Runway 05:

SAKON NAKHON OMNI 05 Departure: Required climb gradient 201 ft per NM (3.3%) until 3,300 ft.

Ground speed	Knot	65	75	100	150	200	250	300
Rate of climb 3.3%	(ft/min)	217	251	334	501	668	835	1003

No turn before DER.
After departure climb straight ahead until 2,000 ft (or altitude assigned by ATC between 2,000 ft - 2,900 ft), then comply with ATC clearance issued (or as directed by ATC).

- Runway 23:

SAKON NAKHON OMNI 23 Departure: Required climb gradient 274 ft per NM (4.5%) until 3,300 ft.

Ground speed	Knot	65	75	100	150	200	250	300
Rate of climb 4.5%	(ft/min)	296	342	456	684	911	1139	1367

No turn before DER.
After departure climb straight ahead until 2,000 ft (or altitude assigned by ATC between 2,000 ft - 2,900 ft), then comply with ATC clearance issued (or as directed by ATC).

VTUI AD 2.23 ADDITIONAL INFORMATION

- Bird concentration in the vicinity of runway 23 (end of runway 05)

VTUI AD 2.24 CHARTS RELATED TO AN AERODROME

INTENTIONALLY BLANK

AERODROME CHART - ICAO

17 11 43 N
104 07 07 E

ELEV 529 FT

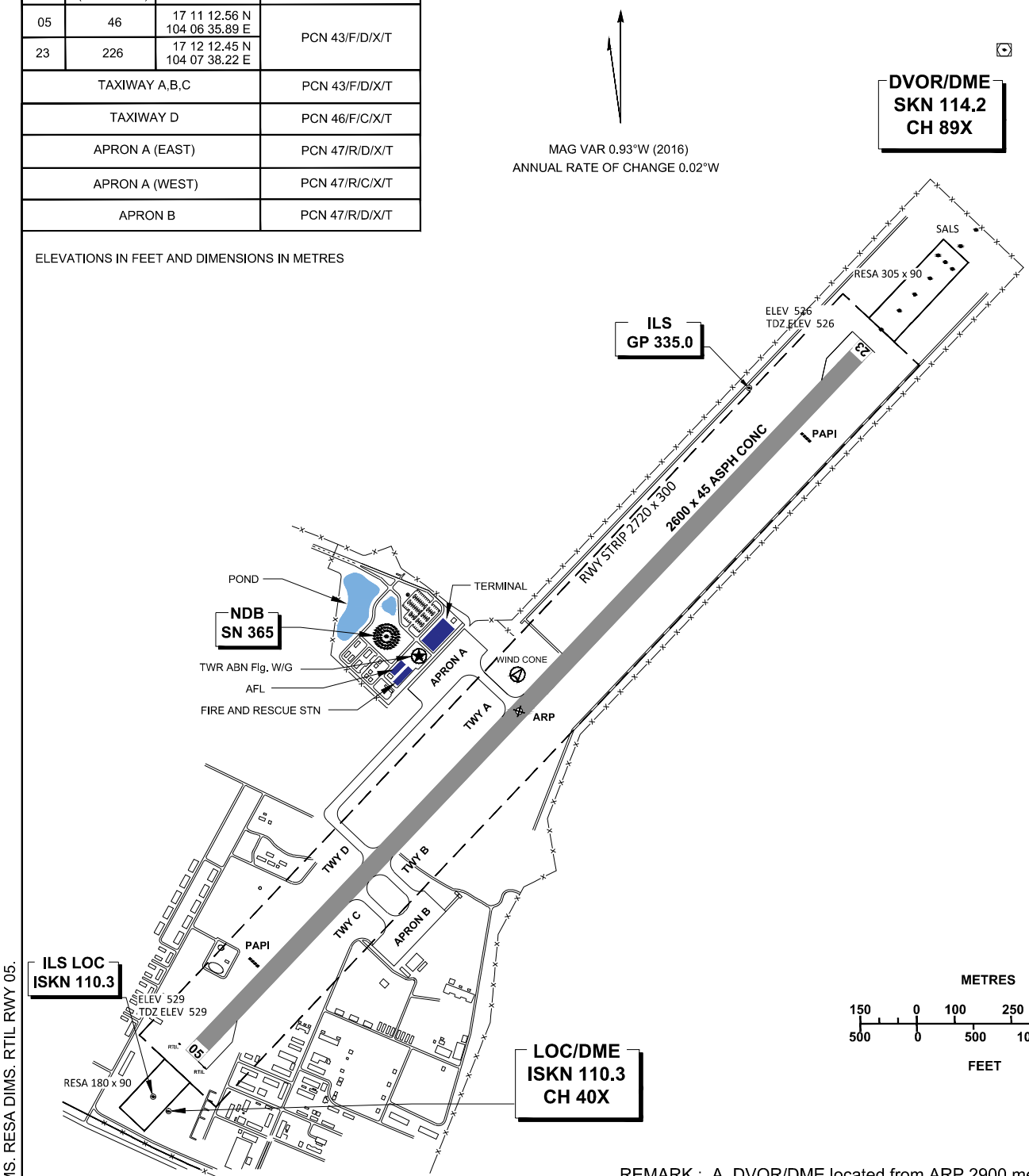
TWR 119.65 236.60

SAKON NAKHON / Sakon Nakhon

RWY	DIRECTION (TRUE BRG)	THR	BEARING STRENGTH
05	46	17 11 12.56 N 104 06 35.89 E	PCN 43/F/D/X/T
23	226	17 12 12.45 N 104 07 38.22 E	
TAXIWAY A,B,C			PCN 43/F/D/X/T
TAXIWAY D			PCN 46/F/C/X/T
APRON A (EAST)			PCN 47/R/D/X/T
APRON A (WEST)			PCN 47/R/C/X/T
APRON B			PCN 47/R/D/X/T

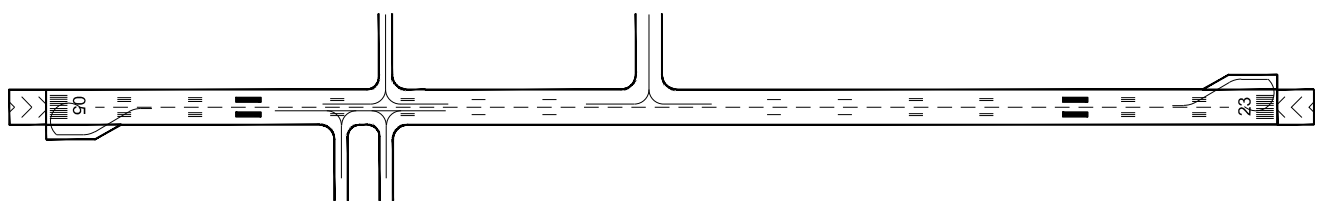
ELEVATIONS IN FEET AND DIMENSIONS IN METRES

MAG VAR 0.93°W (2016)
ANNUAL RATE OF CHANGE 0.02°W

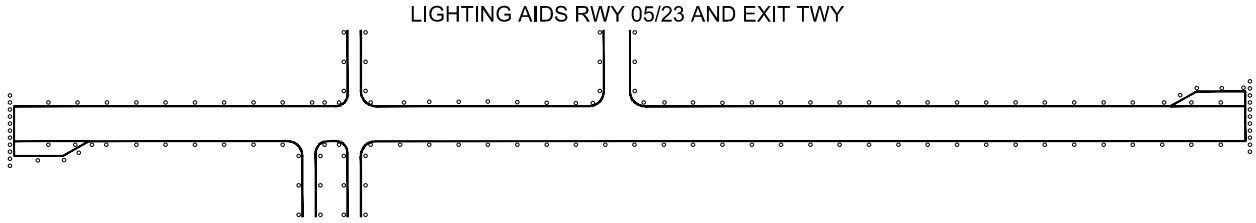


REMARK : A. DVOR/DME located from ARP 2900 metres.
B. DVOR/DME restriction due to mountainous terrain surround

MARKING AIDS RWY 05/23 AND EXIT TWY



LIGHTING AIDS RWY 05/23 AND EXIT TWY



CHANGE : REVISED CHART. SWY CANCELLED. STRIP DIMS. RESA DIMS. RTIL RWY 05.

INTENTIONALLY BLANK

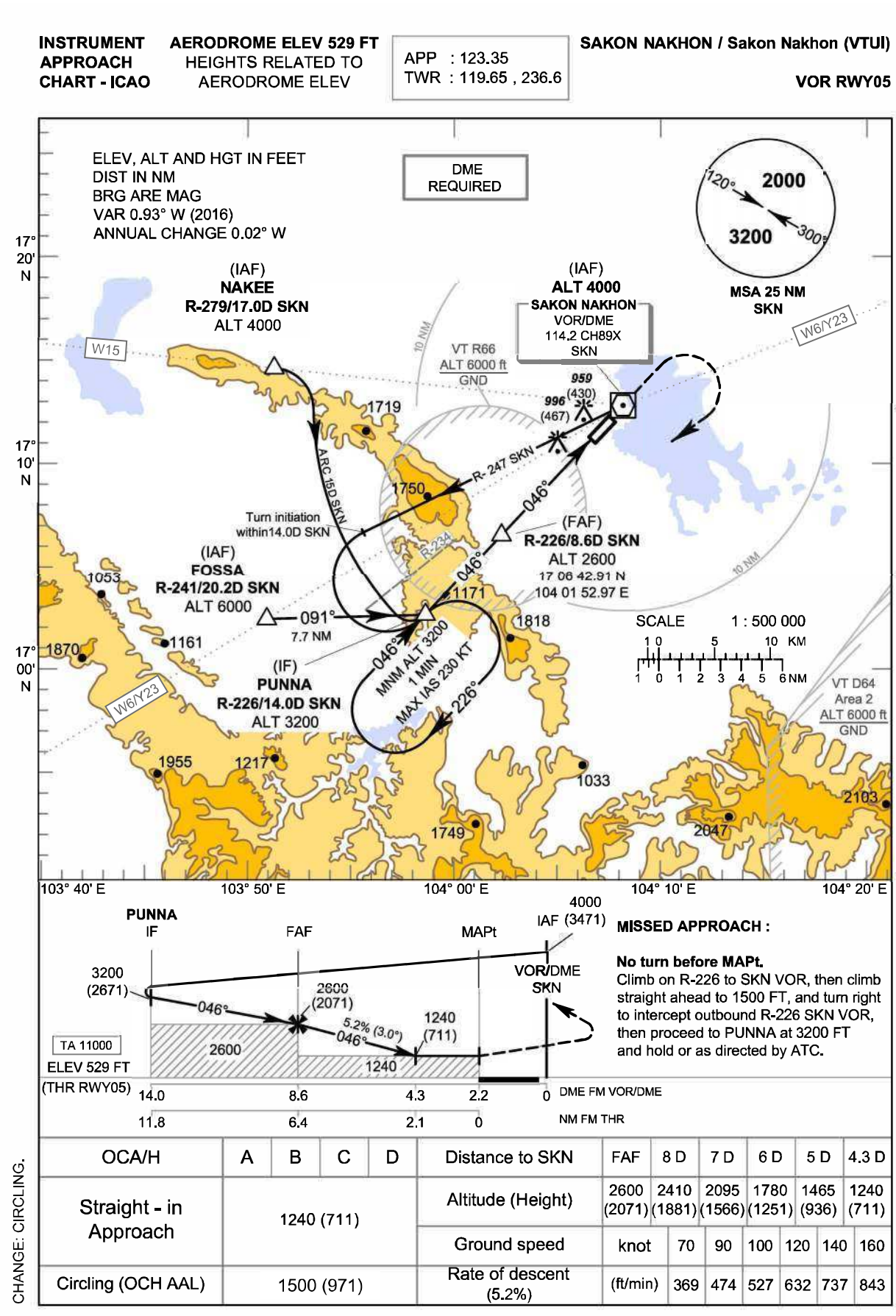
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV

APP : 123.35
TWR : 119.65 , 236.6

SAKON NAKHON / Sakon Nakhon (VTUI)

VOR RWY05



CHANGE: CIRCLING.

OCA/H	A	B	C	D	Distance to SKN	FAF	8 D	7 D	6 D	5 D	4.3 D
Straight - in Approach	1240 (711)				Altitude (Height)	2600 (2071)	2410 (1881)	2095 (1566)	1780 (1251)	1465 (936)	1240 (711)
					Ground speed	knot	70	90	100	120	140	160
Circling (OCH AAL)	1500 (971)				Rate of descent (5.2%)	(ft/min)	369	474	527	632	737	843

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV

SAKON NAKHON / Sakon Nakhon (VTUI)

VOR RWY05

FIX/POINT		COORDINATES	
(IAF) NAKEE	R-279 / 17.0D SKN	17 15 05.96 N	103 50 35.93 E
(IAF) FOSSA	R-241 / 20.2D SKN	17 02 51.48 N	103 49 50.92 E
(IF) PUNNA	R-226 / 14.0D SKN	17 02 49.77 N	103 57 53.28 E
(FAF)	R-226 / 8.6D SKN	17 06 42.91 N	104 01 52.97 E
(MAPt)	R-226 / 2.2D SKN	17 11 13.09 N	104 06 35.28 E
(IAF) VOR	SKN	17 12 50.89 N	104 08 12.34 E

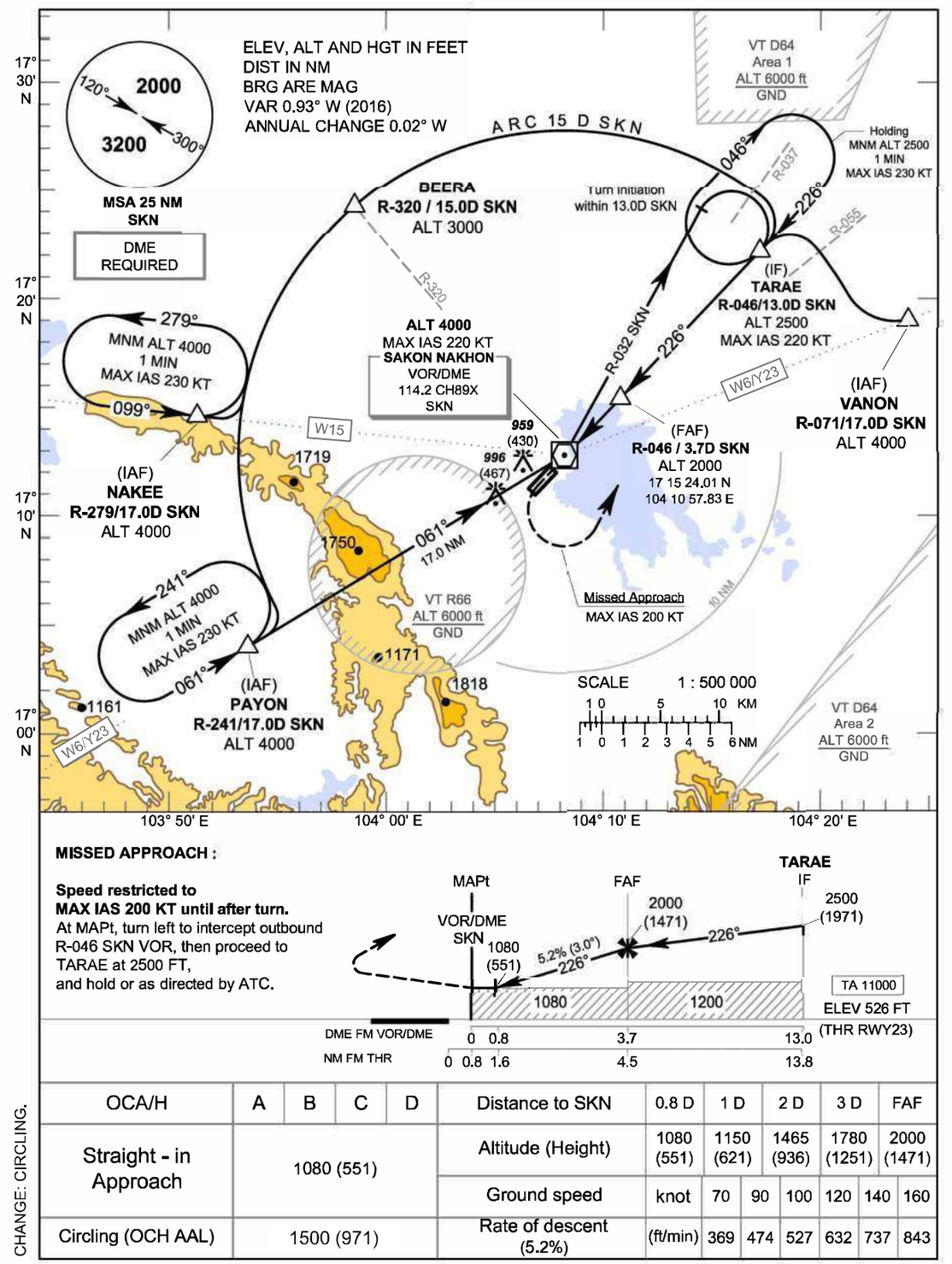
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV

APP : 123.35
TWR : 119.65 , 236.6

SAKON NAKHON / Sakon Nakhon (VTUI)

VOR RWY23



MISSED APPROACH :

Speed restricted to
MAX IAS 200 KT until after turn.
At MAPt, turn left to intercept outbound R-046 SKN VOR, then proceed to TARAE at 2500 FT,
and hold or as directed by ATC.

CHANGE: CIRCLING.

OCA/H	A	B	C	D	Distance to SKN	0.8 D	1 D	2 D	3 D	FAF
Straight - in Approach	1080 (551)				Altitude (Height)	1080 (551)	1150 (621)	1465 (936)	1780 (1251)	2000 (1471)
					Ground speed	knot	70	90	100	120	140	160
Circling (OCH AAL)	1500 (971)				Rate of descent (5.2%)	(ft/min)	369	474	527	632	737	843

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV

SAKON NAKHON / Sakon Nakhon (VTUI)

VOR RWY23

FIX/POINT		COORDINATES	
(IAF) NAKEE	R-279 / 17.0D SKN	17 15 05.96 N	103 50 35.93 E
(IAF) PAYON	R-241 / 17.0D SKN	17 04 24.70 N	103 52 46.34 E
(IAF) VANON	R-071 / 17.0D SKN	17 18 38.93 N	104 24 52.65 E
BEERA	R-320 / 15.0D SKN	17 24 13.04 N	103 57 55.37 E
(IF) TARAE	R-046 / 13.0D SKN	17 22 01.55 N	104 17 52.00 E
(FAF)	R-046 / 3.7D SKN	17 15 24.01 N	104 10 57.83 E
(MAPt) VOR	SKN	17 12 50.89 N	104 08 12.34 E

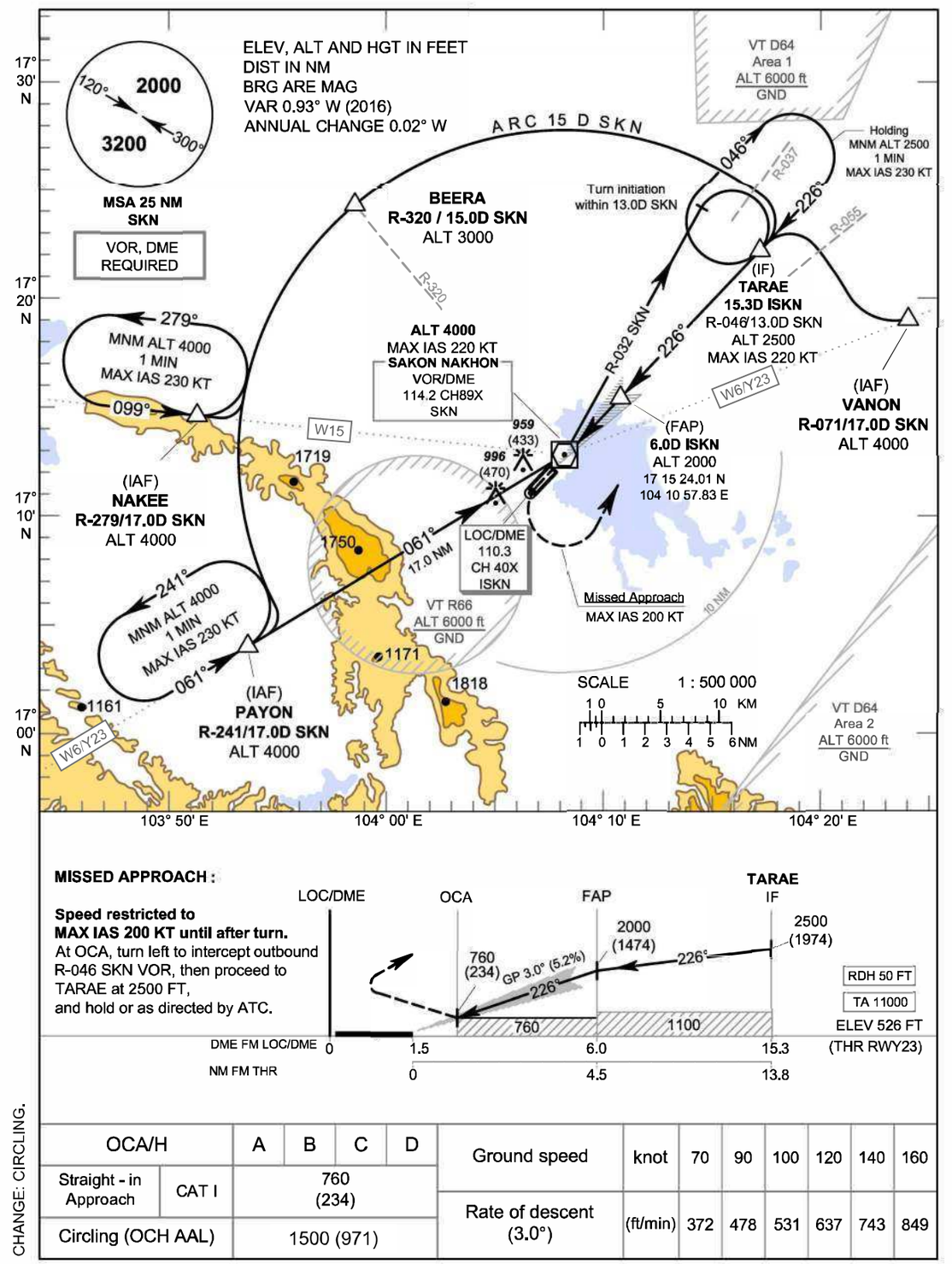
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO
THR RWY23 - ELEV 526 FT

APP : 123.35
TWR : 119.65 , 236.6

SAKON NAKHON / Sakon Nakhon (VTUI)

ILS RWY23



MISSED APPROACH :

Speed restricted to MAX IAS 200 KT until after turn.
At OCA, turn left to intercept outbound R-046 SKN VOR, then proceed to TARAE at 2500 FT, and hold or as directed by ATC.

CHANGE: CIRCLING.

OCA/H		A	B	C	D	Ground speed	knot	70	90	100	120	140	160
Straight - in Approach	CAT I	760 (234)				Rate of descent (3.0°)	(ft/min)	372	478	531	637	743	849
Circling (OCH AAL)		1500 (971)											

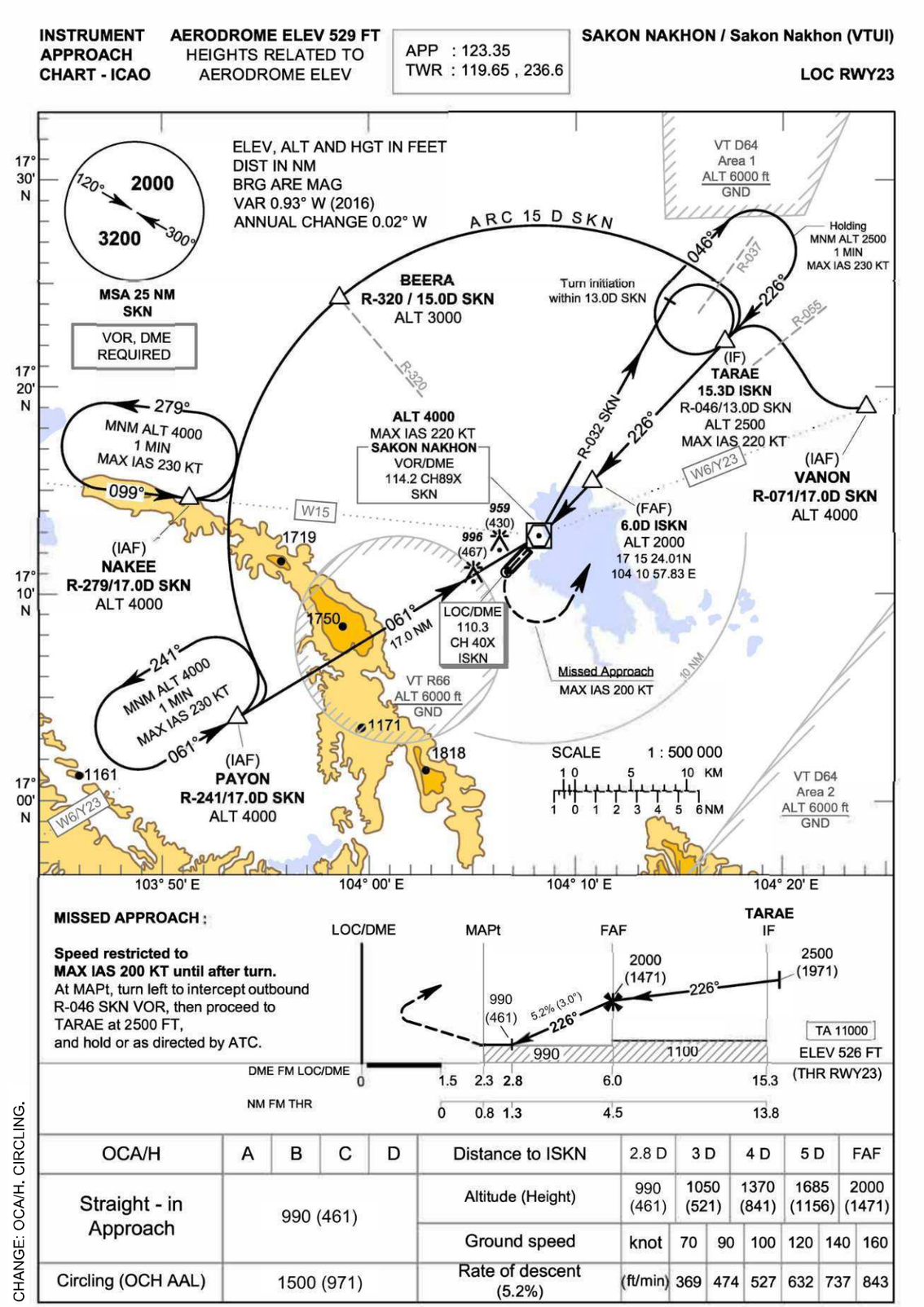
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO
THR RWY23 - ELEV 526 FT

SAKON NAKHON / Sakon Nakhon (VTUI)

ILS RWY23

FIX/POINT		COORDINATES	
(IAF) NAKEE	R-279 / 17.0D SKN	17 15 05.96 N	103 50 35.93 E
(IAF) PAYON	R-241 / 17.0D SKN	17 04 24.70 N	103 52 46.34 E
(IAF) VANON	R-071 / 17.0D SKN	17 18 38.93 N	104 24 52.65 E
BEERA	R-320 / 15.0D SKN	17 24 13.04 N	103 57 55.37 E
(IF) TARAE	15.3D ISKN	17 22 01.55 N	104 17 52.00 E
(FAP)	6.0D ISKN	17 15 24.01 N	104 10 57.83 E
LOC/DME	ISKN	17 11 07.73 N	104 06 30.87 E
VOR	SKN	17 12 50.89 N	104 08 12.34 E


INSTRUMENT APPROACH CHART - ICAO
AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV
APP : 123.35
TWR : 119.65 , 236.6
SAKON NAKHON / Sakon Nakhon (VTUI)
LOC RWY23
ELEV, ALT AND HGT IN FEET
DIST IN NM
BRG ARE MAG
VAR 0.93° W (2016)
ANNUAL CHANGE 0.02° W
ARC 15 D SKN
MSA 25 NM
SKN
VOR, DME REQUIRED
BEERA
R-320 / 15.0D SKN
ALT 3000
Turn initiation within 13.0D SKN
Holding
MNM ALT 2500
1 MIN
MAX IAS 230 KT
(IF)
TARAE
15.3D ISKN
R-046/13.0D SKN
ALT 2500
MAX IAS 220 KT
(IAF)
VANON
R-071/17.0D SKN
ALT 4000
ALT 4000
MAX IAS 220 KT
SAKON NAKHON
VOR/DME
114.2 CH89X
SKN
(FAF)
6.0D ISKN
ALT 2000
17 15 24.01N
104 10 57.83 E
(IAF)
NAKEE
R-279/17.0D SKN
ALT 4000
(IAF)
PAYON
R-241/17.0D SKN
ALT 4000
LOC/DME
110.3
CH 40X
ISKN
Missed Approach
MAX IAS 200 KT
VT D64
Area 1
ALT 6000 ft
GND
VT R66
ALT 6000 ft
GND
VT D64
Area 2
ALT 6000 ft
GND
SCALE 1 : 500 000
MISSED APPROACH :
Speed restricted to
MAX IAS 200 KT until after turn.
At MAPt, turn left to intercept outbound
R-046 SKN VOR, then proceed to
TARAE at 2500 FT,
and hold or as directed by ATC.
LOC/DME
MAPt
FAF
IF
TARAE
TA 11000
ELEV 526 FT
(THR RWY23)
DME FM LOC/DME
NM FM THR
CHANGE: OCA/H, CIRCLING,
OCA/H | A | B | C | D | Distance to ISKN | 2.8 D | 3 D | 4 D | 5 D | FAF
Straight - in Approach | 990 (461) | Altitude (Height) | 990 (461) | 1050 (521) | 1370 (841) | 1685 (1156) | 2000 (1471)
Ground speed | knot | 70 | 90 | 100 | 120 | 140 | 160
Circling (OCH AAL) | 1500 (971) | Rate of descent (5.2%) | (ft/min) | 369 | 474 | 527 | 632 | 737 | 843

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV

SAKON NAKHON / Sakon Nakhon (VTUI)

LOC RWY23

FIX/POINT		COORDINATES	
(IAF) NAKEE	R-279 / 17.0D SKN	17 15 05.96 N	103 50 35.93 E
(IAF) PAYON	R-241 / 17.0D SKN	17 04 24.70 N	103 52 46.34 E
(IAF) VANON	R-071 / 17.0D SKN	17 18 38.93 N	104 24 52.65 E
BEERA	R-320 / 15.0D SKN	17 24 13.04 N	103 57 55.37 E
(IF) TARAE	15.3D ISKN	17 22 01.55 N	104 17 52.00 E
(FAF)	6.0D ISKN	17 15 24.01 N	104 10 57.83 E
MAPt	2.3D ISKN	17 12 45.68 N	104 08 12.83 E
LOC/DME	ISKN	17 11 07.73 N	104 06 30.87 E
VOR	SKN	17 12 50.89 N	104 08 12.34 E

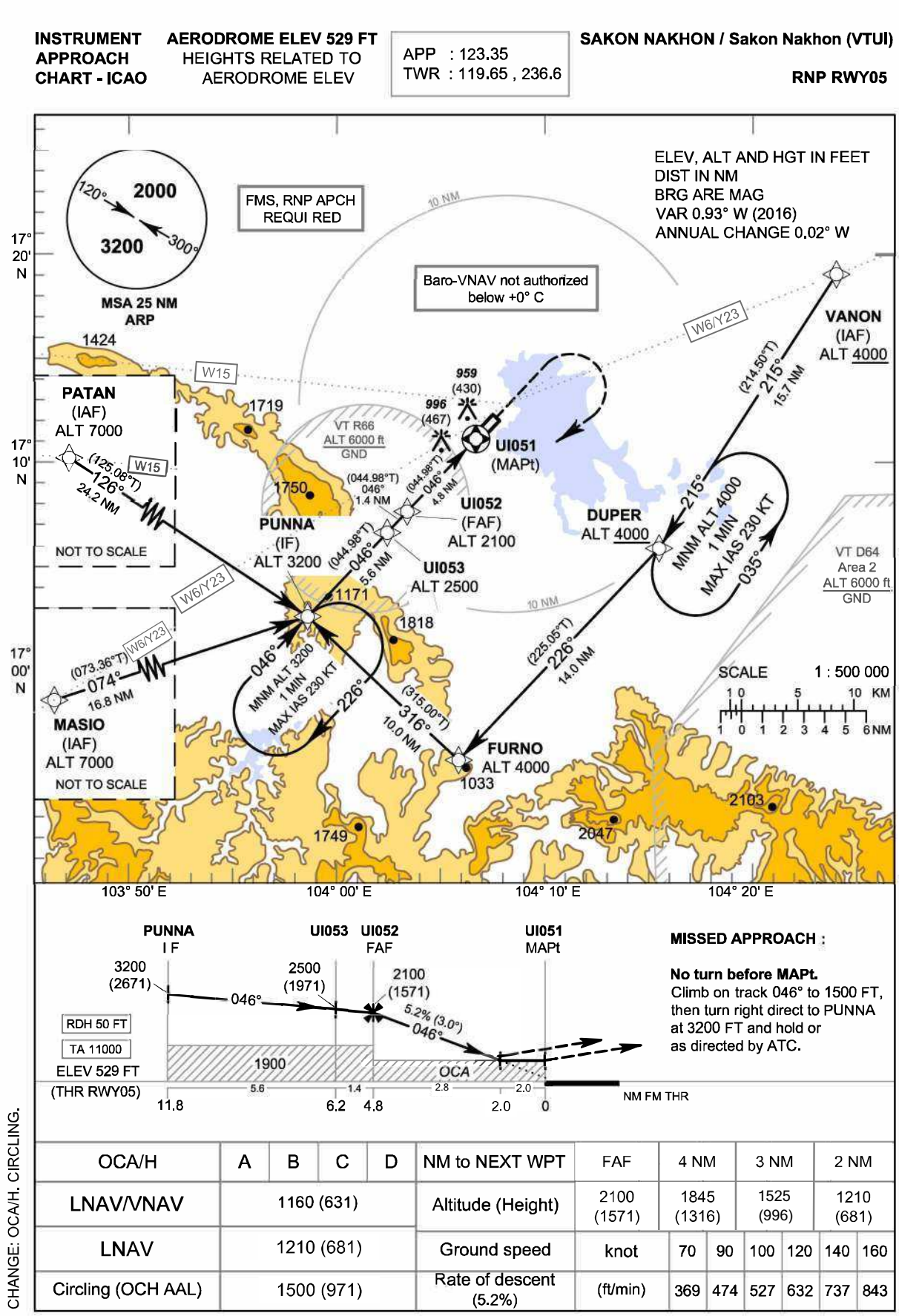
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV

APP : 123.35
TWR : 119.65 , 236.6

SAKON NAKHON / Sakon Nakhon (VTUI)

RNP RWY05



OCA/H	A	B	C	D	NM to NEXT WPT	FAF	4 NM	3 NM	2 NM
LNAV/VNAV	1160 (631)				Altitude (Height)	2100 (1571)	1845 (1316)	1525 (996)	1210 (681)
LNAV	1210 (681)				Ground speed	knot	70	90	100	120	140	160
Circling (OCH AAL)	1500 (971)				Rate of descent (5.2%)	(ft/min)	369	474	527	632	737	843

CHANGE: OCA/H. CIRCLING.

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO
AERODROME ELEV

SAKON NAKHON / Sakon Nakhon (VTUI)

RNP RWY05

TABULAR DESCRIPTION

RNP RWY05

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	VANON (IAF)	-	-	+0.95	-	-	+4000	-	-	RNP APCH
020	TF	DUPER	-	215°(214.50°)	+0.95	15.7	R	+4000	-	-	RNP APCH
030	TF	FURNO	-	226°(225.05°)	+0.95	14.0	R	@4000	-	-	RNP APCH
040	TF	PUNNA (IF)	-	316°(315.00°)	+0.95	10.0	-	@3200	-	-	RNP APCH
010	IF	MASIO (IAF)	-	-	+0.95	-	-	@7000	-	-	RNP APCH
020	TF	PUNNA (IF)	-	074°(073.36°)	+0.95	16.8	-	@3200	-	-	RNP APCH
010	IF	PATAN (IAF)	-	-	+0.95	-	-	@7000	-	-	RNP APCH
020	TF	PUNNA (IF)	-	126°(125.08°)	+0.95	24.2	-	@3200	-	-	RNP APCH
010	IF	PUNNA (IF)	-	-	+0.95	-	-	@3200	-	-	RNP APCH
020	TF	UI053	-	046°(044.98°)	+0.95	5.6	-	@2500	-	-	RNP APCH
030	TF	UI052 (FAF)	-	046°(044.98°)	+0.95	1.4	-	@2100	-	-	RNP APCH
040	TF	UI051 (MAPt)	Y	046°(044.98°)	+0.95	4.8	-	@579	-	-3.0/50	RNP APCH
050	CA	-	-	046°(044.98°)	+0.95	-	-	+ 1500	-	-	RNP APCH
060	DF	PUNNA (IF)	-	-	+0.95	-	R	+ 3200	-	-	RNP APCH
070	HM	PUNNA (IF)	Y	046°(044.98°)	+0.95	1 minute	R	+ 3200	- 230	-	RNP APCH

WAYPOINT LIST

RNP RWY05

Waypoint Identifier	Coordinates	
VANON	17° 18' 38.93" N	104° 24' 52.65" E
DUPER	17° 05' 40.03" N	104° 15' 36.25" E
FURNO	16° 55' 43.91" N	104° 05' 16.11" E
MASIO	16° 58' 01.07" N	103° 41' 06.91" E
PATAN	17° 16' 47.29" N	103° 37' 15.11" E
PUNNA	17° 02' 49.77" N	103° 57' 53.28" E
UI053	17° 06' 48.43" N	104° 02' 01.20" E
UI052	17° 07' 48.18" N	104° 03' 03.21" E
UI051 (THR05)	17° 11' 12.56" N	104° 06' 35.89" E

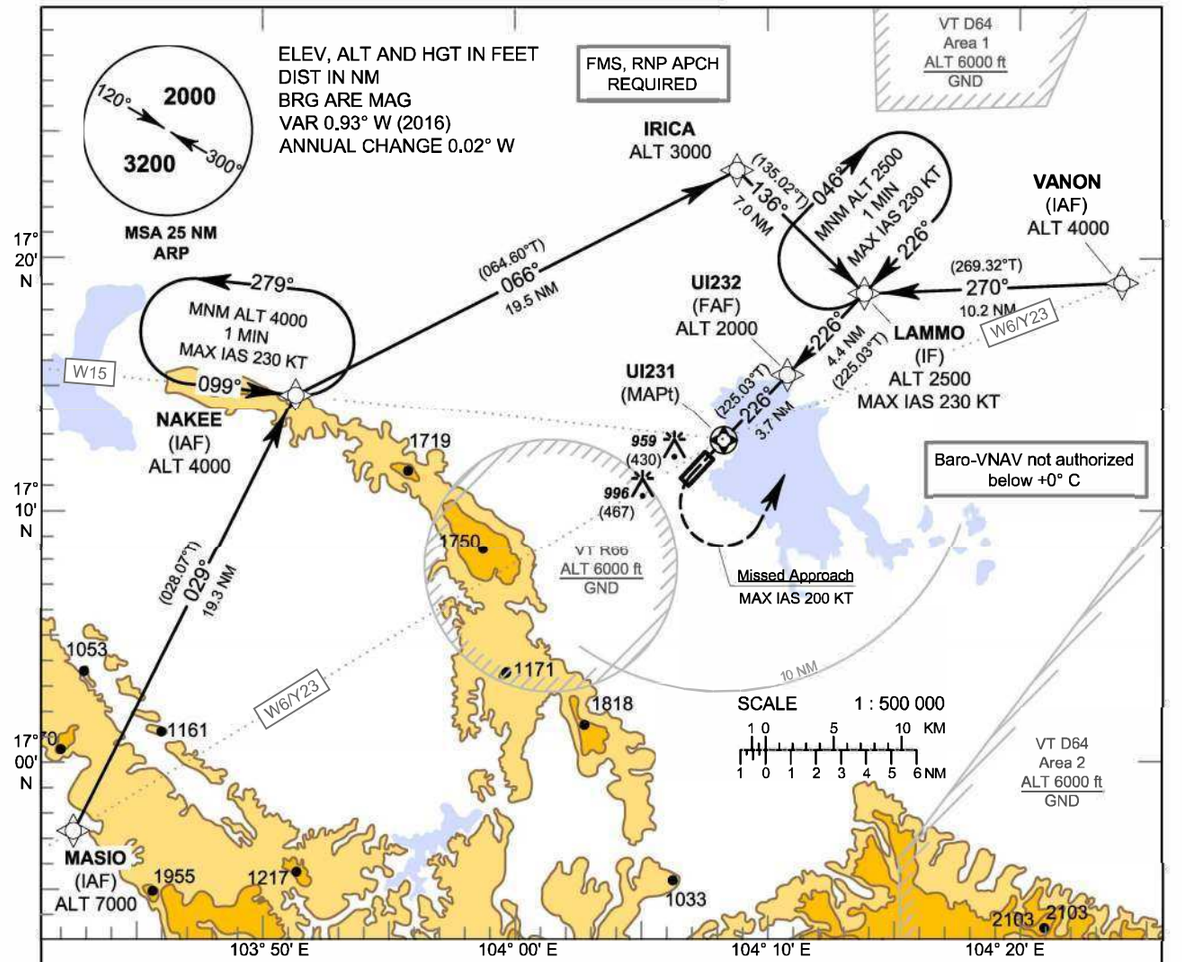
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO AERODROME ELEV

APP : 123.35
TWR : 119.65 , 236.6

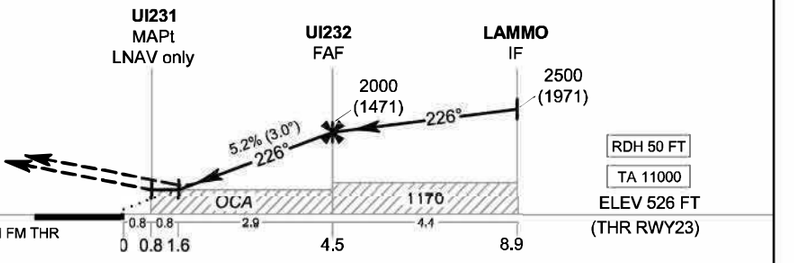
SAKON NAKHON / Sakon Nakhon (VTUI)

RNP RWY23



MISSED APPROACH :

Speed restricted to
MAX IAS 200 KT until after turn.
At MAPt, turn left direct to
LAMMO at 2500 FT,
and hold or as directed by ATC.



CHANGE: CIRCLING.

OCA/H	A	B	C	D	NM to NEXT WPT	1.6 NM	2 NM	3 NM	4 NM	FAF
LNAV/VNAV	1170 (641)				Altitude (Height)	1080 (551)	1210 (681)	1525 (996)	1845 (1316)	2000 (1471)
LNAV	1080 (551)				Ground speed	knot	70	90	100	120	140	160
Circling (OCH AAL)	1500 (971)				Rate of descent (5.2%)	(ft/min)	369	474	527	632	737	843

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 529 FT
HEIGHTS RELATED TO
AERODROME ELEV

SAKON NAKHON / Sakon Nakhon (VTUI)

RNP RWY23

TABULAR DESCRIPTION

RNP RWY23

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	MASIO (IAF)	-	-	+0.95	-	-	@7000	-	-	RNP APCH
020	TF	NAKEE (IAF)	-	029°(028.07°)	+0.95	19.3	R	@4000	-	-	RNP APCH
030	TF	IRICA	-	066°(064.60°)	+0.95	19.5	R	@3000	-	-	RNP APCH
040	TF	LAMMO (IF)	-	136°(135.02°)	+0.95	7.0	-	@2500	-230	-	RNP APCH
010	IF	NAKEE (IAF)	-	-	+0.95	-	-	@4000	-	-	RNP APCH
020	TF	IRICA	-	066°(064.60°)	+0.95	19.5	R	@3000	-	-	RNP APCH
030	TF	LAMMO (IF)	-	136°(135.02°)	+0.95	7.0	-	@2500	-230	-	RNP APCH
010	IF	VANON (IAF)	-	-	+0.95	-	-	@4000	-	-	RNP APCH
020	TF	LAMMO (IF)	-	270°(269.32°)	+0.95	10.2	-	@2500	-230	-	RNP APCH
010	IF	LAMMO (IF)	-	-	+0.95	-	-	@2500	-230	-	RNP APCH
020	TF	UI232 (FAF)	-	226°(225.03°)	+0.95	4.4	-	@2000	-	-	RNP APCH
030	TF	UI231 (MAPt)	Y	226°(225.03°)	+0.95	3.7	L	@830	-	-3.0/50	RNP APCH
040	DF	LAMMO (IF)	-	-	+0.95	-	-	+ 2500	-200	-	RNP APCH
050	HM	LAMMO (IF)	Y	226°(225.03°)	+0.95	1 minute	R	+ 2500	- 230	-	RNP APCH

WAYPOINT LIST

RNP RWY23

Waypoint Identifier	Coordinates	
MASIO	16° 58' 01.07" N	103° 41' 06.91" E
NAKEE	17° 15' 05.96" N	103° 50' 35.93" E
IRICA	17° 23' 29.74" N	104° 09' 02.67" E
VANON	17° 18' 38.93" N	104° 24' 52.65" E
LAMMO	17° 18' 31.38" N	104° 14' 12.98" E
UI232	17° 15' 24.07" N	104° 10' 57.76" E
UI231 (MAPt)	17° 12' 46.51" N	104° 08' 13.70" E
THR 23	17° 12' 12.45" N	104° 07' 38.22" E