VTUU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VTUU - UBON RATCHATHANI / UBON RATCHATHANI AIRPORT

VTUU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	151504.59N 1045212.82E
2	Direction and distance from (city)	1 KM N, from city
3	Elevation/Reference temperature	406 FT/36°C
4	Geoid Undulation at AD ELEV PSN	NIL
5	MAG VAR/Annual change	0.80°W(2016)/0.02°W
6	AD Administration, address, telephone, telefax, telex, AFS	Director of Ubon Ratchathani Airport Ubon Ratchathani Airport Amphone Muang Ubon Ratchathani Province 34000 Thailand Tel: +664 524 5612-3 Fax: +664 524 4406 AFS: VTUUYDYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Operator: Department of Airports

VTUU AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	2300-1500
2	Customs and immigration	On request
3	Health and sanitation	On request
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	2300-1500
6	MET Briefing Office	NIL
7	ATS	2300-1500
8	Fuelling	0100-1130
9	Handling	NIL
10	Security	NIL
11	De-icing	NIL
12	Remarks	ATS Reporting Office (ARO): Located at Ubon Ratchathani Air Traffic Control Centre (1st floor of tower building) Tel: +664 525 6407, +668 9488 2157 Fax: +664 524 0798 Ext. 7874

VTUU AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel/oil types	JET A-1, AVGAS
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

VTUU AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city
2	Restaurants	In the city
3	Transportation	Limousine
4	Medical facilities	NIL
5	Bank and Post Office	Bank: Avaliable Post office: Available
6	Tourist Office	Office in the city
7	Remarks	NIL

VTUU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Category 8
2	Rescue equipment	Yes
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

VTUU AD 2.7 SEASONAL AVAILABILITY - CLEARING

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

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

1	Apron surface and strength	Surface: Concrete Strength: PCN 61/R/C/X/T
2	Taxiway width, surface and strength	Width: 23 M Surface: Concrete and asphalt Strength: PCN 61/F/C/X/T
3	Altimeter checkpoint location and elevation	NIL
4	VOR checkpoints	NIL
5	INS checkpoints	NIL
6	Remarks	NIL

VTUU 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 stand ID signs: NIL TWY guide lines: NIL VDGS of aircraft stands: Aircraft stand no.3 is equipped with VDGS.
2	RWY and TWY markings and LGT	RWY and TWY: Marked and lighted
3	Stop bars	NIL
4	Remarks	NIL

AIP

VTUU AD 2.10 AERODROME OBSTACLES

In approach/TKOF			areas		In circling a	areas and at	AD	Remarks
		1				2		3
RWY/Area affected			Coor	dinates	Obstacle type Coordinates Elevation Markings/LGT			
а	b	1	С		а		b	
05	Tree	141.1(M)	151420.7N	1045121.1E	Radio Mast 178.7(M) marked	151348.6N	1045108.9E	NIL
	Sign Board	143.5 (M)	151425.0N	1045109.8E	Radio Mast 180.2(M) marked	151346.7N	1045112.3E	
	Sign Board	141.4 (M)	151421.6N	1045111.1E	Radio Mast 182.9(M) marked	151344.1N	1045117.2E	
	Sign Board	139.0 (M)	151419.0N	1045113.2E	Radio Mast 165.8(M) marked	151330.3N	1045117.1E	
	Building	143.2 (M)	151409.3N	1045113.1E	Radio Mast 179.2(M) marked/LGT	151328.7N	1045125.9E	
	Tree	153.9 (M)	151404.9N	1045045.8E	Radio Mast 174.3(M) marked	151327.0N	1045125.7E	
					Radio Mast 168.3(M) marked	151442.7N	1045052.7E	
					Radio Mast 183.1(M) marked	151445.5N	1045056.1E	
					Building 166.1(M)	151451.5N	1045107.2E	
					Radio Mast 166.7(M) marked/LGT	151504.1N	1045140.0E	
					Radio Mast 171.3(M) marked	151459.6N	1045056.8E	
					Radio Mast 219.4(M) marked/LGT	151431.5N	1045005.1E	
					Radio Mast 200.8(M) marked/LGT	151437.6N	1044919.2E	
					Radio Mast 196.1(M) marked/LGT	151445.6N	1044930.0E	
					Radio Mast 185.4(M) marked	151505.6N	1044949.7E	
					Radio Mast 180.6(M) marked/LGT	151506.6N	1045012.8E	
					Building 170.0(M)	151523.3N	1045053.9E	
					Radio Mast 210.2(M) marked/LGT	151524.8N	1045042.5E	
					Radio Mast 186.6(M) marked	151535.2N	1045049.0E	
					Radio Mast 186.3(M) marked	151517.1N	1045013.8E	
					Radio Mast 165.3(M) marked/LGT	151515.7N	1045013.7E	
					Radio Mast 170.5(M) marked	151514.5N	1044950.3E	

In approach/TKOF areas			In circling a	Remarks	
	1			2	3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle type Elevation Markings/LGT	Coordinates	
a b		С	а	b	
05			Radio Mast 185.4(M) marked/LGT	151551.7N 1044934.8E	NIL
			Radio Mast 189.4(M) marked	151541.1N 1044941.1E	
			Radio Mast 165.7(M) marked	151542.4N 1044950.1E	
			Radio Mast 194.9(M) marked/LGT	151542.6N 1044944.0E	
			Radio Mast 170.9(M) marked	151549.9N 1045032.8E	
			Building 180.7(M)	151548.3N 1045023.0E	
			Radio Mast 187.4(M) marked/LGT	151557.4N 1045012.3E	
			Building 170.7(M)	151602.4N 1045034.5E	
			Radio Mast 184.5(M) marked	151602.4N 1045034.5E	
			Radio Mast 178.9(M) marked/LGT	151612.9N 1045102.3E	
			Radio Mast 200.5(M) marked	151619.4N 1045056.3E	
			Radio Mast 182.0(M) marked	151609.3N 1045143.8E	
			Radio Mast 181.2(M) marked/LGT	151632.2N 1045137.5E	
			Radio Mast 208.1(M) marked/LGT	151637.2N 1045131.8E	
			Radio Mast 172.2(M) marked/LGT	151654.5N 1045200.6E	
			Radio Mast 186.5(M) marked/LGT	151718.8N 1045305.6E	
			Radio Mast 186.7(M) marked	151719.2N 1045314.8E	
			Radio Mast 177.2(M) marked	151607.7N 1045301.0E	
			Radio Mast 278.9(M) marked/LGT	151820.8N 1045337.6E	
			Radio Mast 247.1(M) marked/LGT	151821.0N 1045344.7E	
			Building 130.7 (M)	151436.9N 1045129.2E	
			Radio Pole 134.4 (M)	151502.6N 1045200.2E	
			Building 126.8 (M)	151434.2N 1045138.3E	
			Building 128.5 (M)	151433.8N 1045143.8E	

In approach/TKOF areas					In circling	Remarks		
		1				2		3
RWY/Area affected	E	stacle type Elevation rkings/LGT	Coordinates		Obstacle type Elevation Markings/LGT	Coordinates		
а	b		С		а	b		
05					Building 127.0 (M) AWOS	151523.2N	151523.2N 1045243.5E	NIL
					Radio Mast G/P marked/LGT 133.9(M)		1045247.1E	
					Building Marked DVOR/DME 133.1(M)	151442.9N	1045157.1E	
					Tower 166.4(M) Marked/LGT	151445.8N	1045209.2E	
23	Tree	131.2(M)	151541.7N	1045256.9E	Radio Mast 179.2(M) marked	151345.9N	1045136.4E	
	TACAN Buildin	N 130.0(M) g/LGT	151544.7N	1045300.0E	Radio Mast 181.6(M) LGT	151333.5N	1045201.1E	
	Tree	141.7(M)	151552.8N	1045314.5E	Radio Mast 176.6(M)	151236.6N	1045141.5E	
	Tree	148.3(M)	151557.4N	1045313.7E	Radio Mast 178.0(M) marked/LGT	151602.4N	1045145.8E	
	Tree	148.4(M)	151600.5N	1045314.1E	Radio Mast 169.9(M) marked/LGT	151411.9N	1045147.1E	
	Radio marked	Mast 167.6(M) d	151349.8N	1045058.0E	Radio Mast 170.4(M) marked	151416.6N	1045149.2E	
					Radio Mast 174.6(M) marked/LGT	151411.4N	1045149.8E	
					Radio Mast 166.5(M) marked/LGT	151425.4N	1045200.1E	
					Radio Mast 178.6(M) marked/LGT	151409.3N	1045227.7E	
					Radio Mast 170.4(M) marked/LGT	151427.7N	1045252.7E	
					Radio Mast 170.1(M)	151512.0N	1045252.7E	
					Radio Mast 174.5(M) marked/LGT	151439.8N	1045341.1E	
					Radio Mast 172.9(M) marked/LGT	151618.3N	1045501.2E	
					Radio Mast 262.9(M) marked/LGT	151609.5N	1045544.3E	

VTUU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Lower Northeastern Meteorological Center, Thai Meteorological Department (TMD)
2	Hours of service MET Office outside hours	H24 NIL
3	Office responsible for TAF preparation Periods of validity	Lower Northeastern Meteorological Center, 24 HR
4	Type of landing forecast Interval of issuance	TREND 1 HR
5	Briefing/consultation provided	Personal Consultation Tel: +664 524 4108 Fax: +664 524 4200
6	Flight documentation Language(s) used	Charts, Tabular forms and Abbreviated Plain Language Texts English
7	Charts and other information available for briefing or consultation	S, U85, U70, U50, U40, U30, U25, U20, SWH, SWM, SWL, P85, P70, P50, P40, P30, P25, P20, P15, satellite and radar images
8	Supplementary equipment available for providing information	Automated Weather Observation System (AWOS), Low Level Wind Shear Alert System (LLWAS) and Weather Radar
9	ATS units provided with information	Ubon Ratchathani TWR Ubon Ratchathani APP
10	Additional information (limitation of service, etc.)	NIL

VTUU 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 coordinates THR end undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
05	051.55°	3000x45	PCN 61/F/C/X/T Concrete and asphalt	151434.17N 1045133.46E	THR 406 FT TDZ 406 FT
23	231.55°	3000x45	PCN 61/F/C/X/T Concrete and asphalt	151535.02N 1045252.20E	THR 392 FT TDZ 392 FT

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7 8		9	10	11	12
NIL	60x60	NIL	3240x75	NIL	NIL
NIL	60x60	NIL	3240x75	NIL	NIL

VTUU AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks 6	
1	2	3	4	5		
05	3000	3000	3060	3000	NIL	
23	3000	3000	3060	3000	NIL	

VTUU AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Design ator	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	SALS 420M LIH	Green WBAR	PAPI LEFT 3°	NIL	NIL	3 000 M 60 M White, LIH YCZ: 600 M	Red	NIL	NIL
23	SALS 420M LIH	Green WBAR	PAPI LEFT 3°	NIL	NIL	3 000 M 60 M White, LIH YCZ: 600 M	Red	NIL	NIL

VTUU 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 4 SEC.
2	LDI location and LGT Anemometer location and LGT	NIL
3	TWY edge and centre line lighting	EDGE: ALL TWY
4	Secondary power supply/switch-over time	Secondary power supply to all lighting at the airport Switch – over time : 15 SEC
5	Remarks	NIL

VTUU 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

VTUU AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	A circle of 5NM radius centred on UBL DVOR/DME (151442.71N 1045157.30E)
2	Vertical limits	3000 FT/AGL
3	Airspace classification	С
4	ATS unit call sign Language(s)	Ubon Tower English, Thai
5	Transition altitude	11000 FT
6	Remarks	NIL

VTUU AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks	
1	2	3	4	5	
APP	Ubon Approach	123.5 MHZ 257.8 MHZ 121.5 MHZ ¹⁾	As AD OPR HR	1) Emergency frequency	
TWR	Ubon Tower	119.9 MHZ 274.5 MHZ 121.5 MHZ ¹⁾ 243.0 MHZ ¹⁾	As AD OPR HR		
GND	Ubon Ground	121.9 MHZ 275.8 MHZ	As AD OPR HR		
ATIS	Ubon Airport	373.0 KHZ	As AD OPR HR		
ASR	Departure Control	335.5 MHZ 134.1 MHZ	0100-0900 ²⁾ MON-FRI (Except Public Holiday)	²⁾ Other this period 2 HR PN TO ATC Royal Thai Air Force ASR OPS AVBL for MIL	
	Arrival Control	282.2 MHZ 125.75 MHZ	(Except i ablie Floriday)	- Coverage/HGT: PSR 70 NM/30 000 FT SSR 200 NM/100 000 FT	
SRA	Final Control	382.4 MHZ		- EM: PSR 500 KW SSR 1.5 KW	

VTUU 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	UB	373 KHZ	H24	151425.83N 1045148.77E		Data refer from commissioning checked as follows: - 50 NM clockwise orbit, altitude 3 000 FT bearing 111°-070° found satisfactory - Due to border limited: 35 NM clockwise orbit, altitude 3 000 FT bearing 071°-110° found satisfactory

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	UBL	112.7 MHZ CH74X	H24	151442.71N 1045157.30E		DVOR/DME restriction 1. Due to obstacles surround DVOR/ DME station, coverage check does not provide adequate signal clockwise orbit at required altitude in various areas as follows: a) 40 NM - Radial 111°-155° altitude should not below 3 000 FT - Radial 156°-165° altitude should not below 7 000 FT - Radial 166°-200° altitude should not below 5 000 FT - Radial 201°-070° altitude should not below 3 000 FT b) 30 NM (Due to border limit) - Radial 071°-110° altitude should not below 2 000 FT 2. During 6 NM orbit found 30 Hz. AM modulation is fluctuated within 29%-50% between radial 170°-190°. UBON DVOR/DME unusable between radial 170°-190° (CW) beyond 10 NM altitude 2 000 FT.
ILS CAT I LOC RWY23	IUBL	110.1 MHZ CH38X	H24	151423.85N 1045120.10E		 ILS coverage over sector of 35 either side of runway centre line, no back course and voice feature, the antenna array is located on extended runway centre line at distance 500 M from THR of RWY 05, height of antenna array is 4.1 M from ground No marker
GP/DME		334.4 MHZ	H24	151526.05N 1045247.13E		- Glide Path angle 3.0° - DME co-located with glide path power output 100 watts omnidirectional
TACAN	UBL	114.6 MHZ CH93	2300-1100 MON-FRI (Except Public Holiday)	151544.79N 1045300.00E		Other this period 2 HR PN TO ATC

VTUU AD 2.20 LOCAL AERODROME REGULATIONS

1. 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, aircraft code letter C or higher are not allowed to make 180 degrees turn on the runway. The turn shall be made on the runway turn pad located on both end of runway. 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 and shall be liable for the compensation caused by such violation.

VTUU AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

AD 2-VTUU-1-10 AIP 30 NOV 23 THAILAND

VTUU AD 2.22 FLIGHT PROCEDURES

1. VFR REPORTING POINTS AND LOCAL PROCEDURES

1.1 Reporting points for VFR flight

In order to expedite and maintain an orderly flow of air traffic into Ubon Ratchathani Airport, The procedures of inbound traffic or VFR flight, conventional and prop jet aircraft be set up as follow:

- a) Aircraft entering to land from north of Ubon Ratchathani Airport, shall report over Khuang Nai District, designated as KILO NOVEMBER (1523.0N 10434.0E) and / or Nong Tae District designated as NOVEMBER (1524.4N 10447.9E which are 22 NM on R-300 and 11NM or R-337 of UBL DVOR/DME respectively. When reaching November the aircraft will be instructed to join aerodrome traffic pattern accordingly.
- b) Aircraft entering to land from west or southwest of Ubon Ratchathani Airport, shall report over Kantharom District, designated as KILO ROMEO (1505.5N 10431.5E) and/or Pak Nam Chi designated as DELTA (1511.5N 10443.5E) which are 24 NM on R-248 and 10 NM on R-250 of UBL VOR/DME respectively. When reaching DELTA the aircraft will be instructed to join aerodrome traffic pattern accordingly.
- c) Aircraft entering to land from south of Ubon Ratchathani Airport, shall report over Sri-cai Bridge, designated as SIERRA (1506.0N 10454.4E) which is 9 NM on R-167 of UBL DVOR/DME. When Reaching SIERRA the aircraft will be instructed to join aerodrome traffic pattern accordingly.

1.2 Aerodrome traffic circuit

Using both sides of traffic circuit.

1.3 Overhead approach pattern

- a) Using RWY05 by left turn pattern.
- b) Using RWY23 by right turn pattern

1.4 Landing and Take - off

In order to avoid the high percentage of noise pollution at Ubon Ratchathani Airport, If traffic and weather condition permit, Pilots are requested to land by using RWY23 and take off RWY05.

2. SPEED CONTROL PROCEDURE IN UBON TMA

- a) All arriving turbo-propeller and turbo-jet aircraft when flying below 10000 FT AMSL are subject to fly not faster than indicated air speed 250 knots unless authorized by ATC.
- b) Speed will be reduced to 220 knots during 20-25 track miles from touchdown.
- c) 180 knots at Intermediate fix (Including aircraft from RNAV STAR), or shortly before closing heading to intercept or to establish the final course,
- d) 150 to 160 knots at FAP or FAF; all speed to be flown as accurately as possible. At the other times, speed control may be applied on a tactical basis to extent determined by ATC.
- e) Pilots who unable to comply with the speed limits specifics above for reasons of flight safety and/or weather conditions should inform ATC and state the speed acceptable.
- f) ATC will notify that the aircraft may keep its preferred speed without restriction and will use the phrase "NO SPEED RESTRICTIONS". An instruction to notify that the aircraft need no longer comply with the previous issued speed restriction, the phrase "RESUME NORMAL SPEED" will be used.
- g) All aircraft navigating under conditions of RNAV STARs shall conform to speed limitation as published then at IF pilot shall comply with speed control procedures unless otherwise instructed by ATC.
- h) If the pilots do not comply, the flight shall follow ATC instruction for re-sequencing.

NOTE - an instruction to "RESUME NORMAL SPEED" does not cancel speed restrictions that applicable to published procedure of upcoming segments of flight, aircraft shall comply speed restrictions specified in a) b) c) and d)

3. 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.

4. 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,

5. 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:

UBON OMNI 05 Departure: Required climb gradient 201 ft per NM (3.3%) until 2,000 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 1,500 ft (or altitude assigned by ATC between 1,500 ft - 1,800 ft), then comply with ATC clearance issued (or as directed by ATC).

- Runway 23

UBON OMNI 23 Departure: Required climb gradient 207 ft per NM (3.4%) until 2,000 ft.

Ground spee	d Knot	65	75	100	150	200	250	300
Rate of climb	(ft/min)	224	258	344	516	689	861	1033

No turn before DER.

After departure climb straight ahead until 1,500 ft (or altitude assigned by ATC between 1,500-1,800 ft), then comply with ATC clearance issued (or as directed by ATC)

VTUU AD 2.23 ADDITIONAL INFORMATION

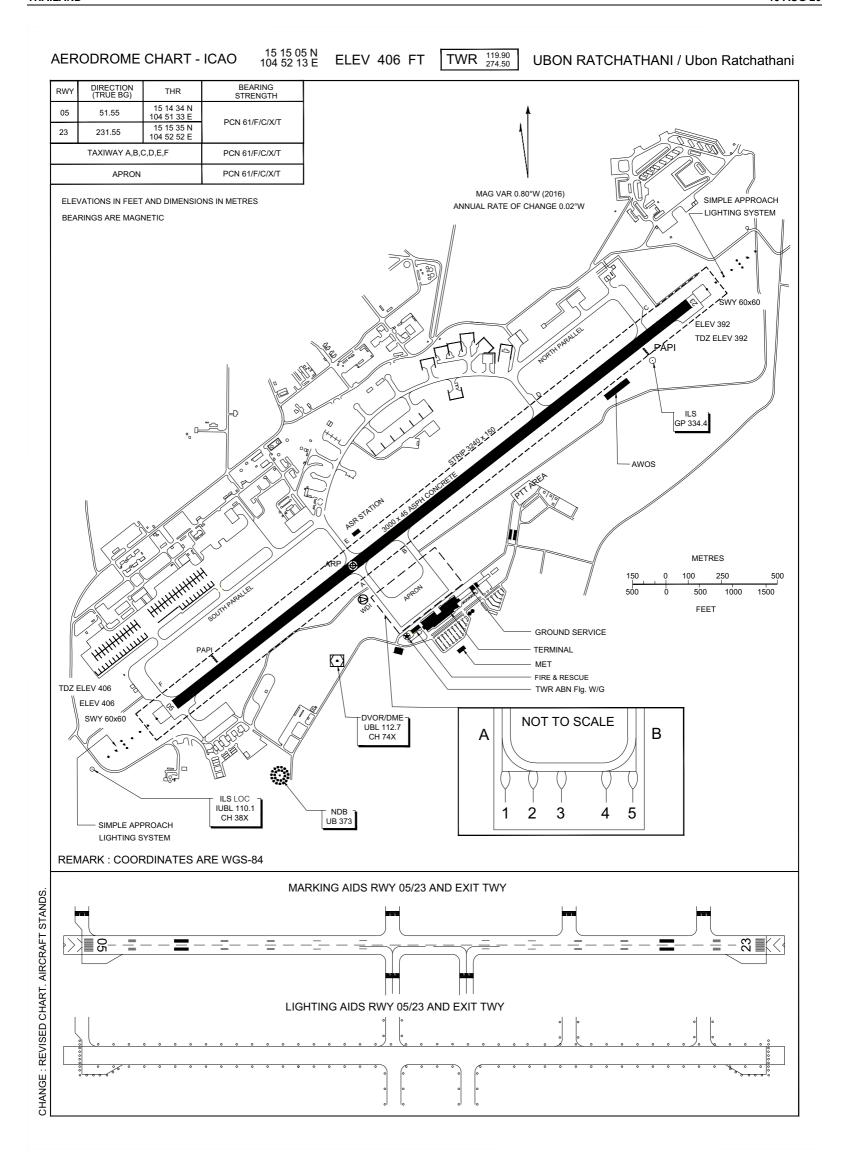
- BAK14 RAG installed at 400 M from threshold runway 05 and 23 cable height 3 inches.
- Net Barrier installed on both side of runway 05/23 at 35 M (115 FT.) from threshold, height 1.35 M (4.5 FT.)
- Birds concentration on and in the vicinity of an aerodrome.

AD 2-VTUU-1-12 30 NOV 23 THAILAND

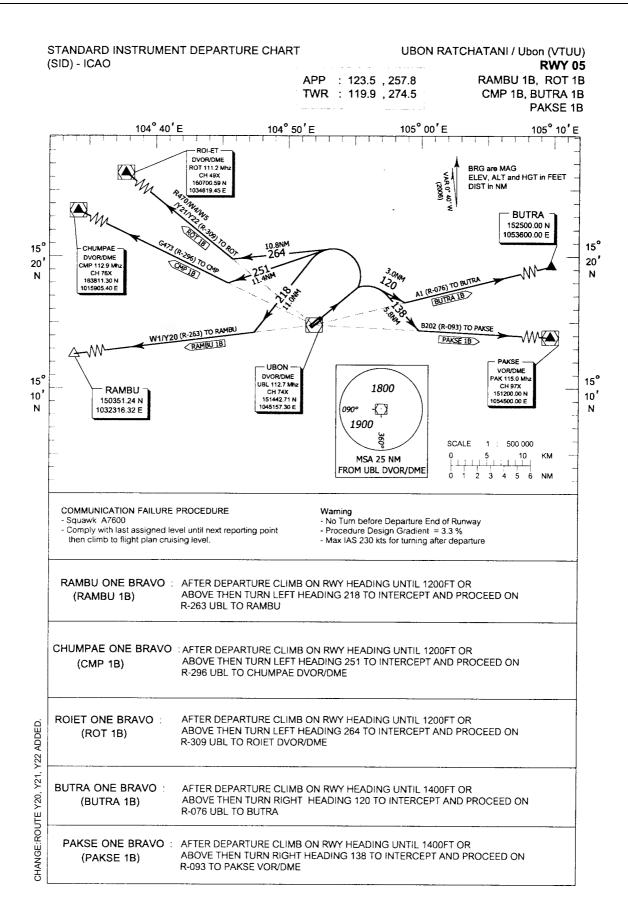
VTUU AD 2.24 CHARTS RELATED TO AN AERODROME

Chart name	Page
Aerodrome Chart - ICAO	AD 2-VTUU-2-1
Standard Departure Chart - Instrument (SID) - ICAO - RWY 05 - RAMBU1B ROT1B CMP1B BUTRA1B PAKSE1B	AD 2-VTUU-6-1
Standard Departure Chart - Instrument (SID) - ICAO - RWY 23 - RAMBU1A ROT1A CMP1A BUTRA1A PAKSE1A	AD 2-VTUU-6-3
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 05 - ARARE1B BAMBO1B CHETA1B PACER1B ROONY1B	AD 2-VTUU-6-5
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 05 - ARARE1B BAMBO1B CHETA1B PACER1B ROONY1B (Tabular description)	AD 2-VTUU-6-6
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 23 - ARARE1A BAMBO1A CHETA1A PACER1A ROONY1A	AD 2-VTUU-6-7
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 23 - ARARE1A BAMBO1A CHETA1A PACER1A ROONY1A (Tabular description)	AD 2-VTUU-6-8
Instrument Approach Chart - ICAO - VOR RWY 05	AD 2-VTUU-8-1
Instrument Approach Chart - ICAO - VOR RWY 05 (Fix and point list table)	AD 2-VTUU-8-2
Instrument Approach Chart - ICAO - VOR RWY 23	AD 2-VTUU-8-3
Instrument Approach Chart - ICAO - VOR RWY 23 (Fix and point list table)	AD 2-VTUU-8-4
Instrument Approach Chart - ICAO - ILS or LOC RWY 23	AD 2-VTUU-8-5
Instrument Approach Chart - ICAO - ILS or LOC RWY 23 (Fix and point list table)	AD 2-VTUU-8-6
Instrument Approach Chart - ICAO - RNP RWY 05	AD 2-VTUU-8-7
Instrument Approach Chart - ICAO - RNP RWY 05 (Tabular description)	AD 2-VTUU-8-8
Instrument Approach Chart - ICAO - RNP RWY 23	AD 2-VTUU-8-9
Instrument Approach Chart - ICAO - RNP RWY 23 (Tabular description)	AD 2-VTUU-8-10

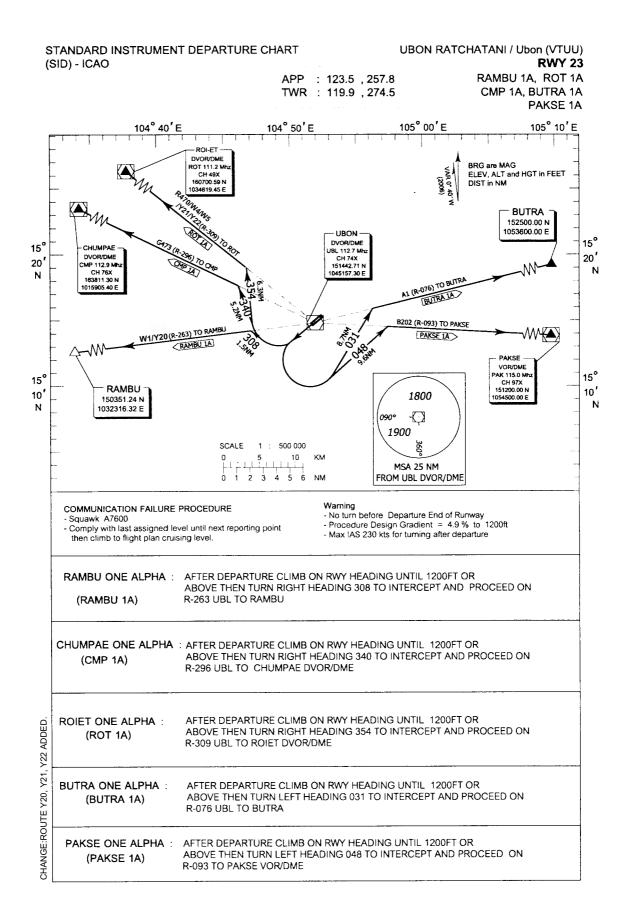
AIP













STANDARD DEPARTURE CHART INSTRUMENT (SID) - ICAO

AIP

THAILAND

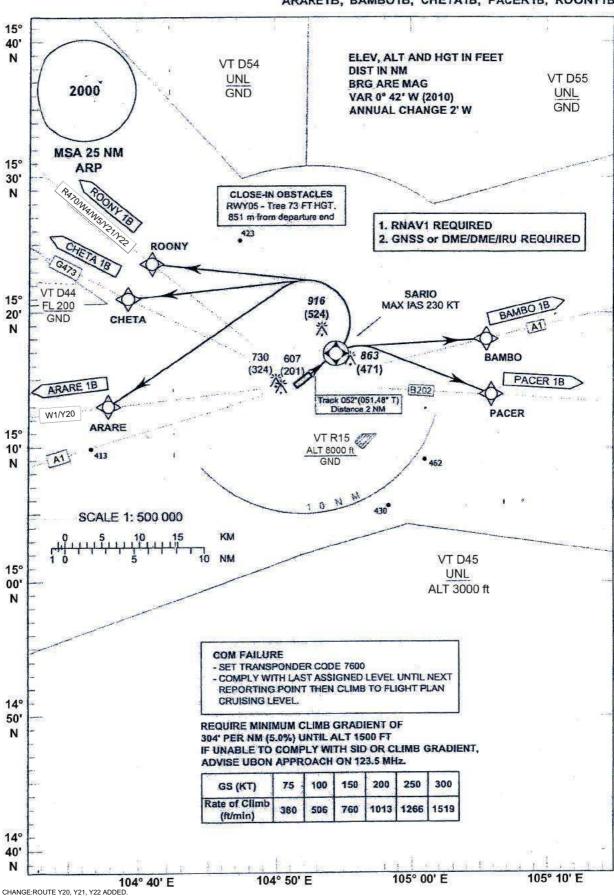
TRANSITION ALTITUDE 11000 FT

APP: 123.5, 257.8 TWR: 119.9, 274.5 GND: 121.9, 275.8 UBON RATCHATHANI / Ubon Ratchathani (VTUU) RNAV RWY05

AD 2-VTUU-6-5

21 APR 22

ARARE1B, BAMBO1B, CHETA1B, PACER1B, ROONY1B



 STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO
 TRANSITION ALTITUDE 11000 FT
 APP : 123.5 , 257.8 TWR : 119.9 , 274.5 GND : 121.9 , 275.8

UBON RATCHATHANI/ Ubon Ratchathani (VTUU) RNAV RWY05

ARARE1B, BAMBO1B, CHETA1B, PACER1B, ROONY1B

Senal	Path	Waypoint	WGS-84	Coordinates	Flyover	Course	Magnetic	Distance	Turn	Altitude	Speed	VPA	Navigation
Number	Descriptor	Identifier	Latitude	Longtitude	Flyover	. M (. L)	Variation	(NM)	Direction	(FT)	(KT)	TCH	Specification
001	82	DER RWY05	15 15 35.02 N	104 52 52 20 E		*	0.83	15	27	- 12	2	-8	RNAV1
002	CF	SARIO	15 16 50.07 N	104 54 29 32 E	Y	052*(051.48*)	0.83	2	L.R	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	230	E)	RNAV1
003	DF	ARARE	15 12 59 33 N	104 37 34.68 E	72	2. Million	0.83		9	-	8		RNAVI
004	DF	BAMBO	15 1 1 03.89 N	105 06 01.57 E	(4)	8 -	0.83	Les		*	*	77	RNAV:
005	DF	CHETA	15 21 04 49 N	104 39 01.93 E			0.83					a.	RNAV1
006	DF	PACER	15 13 55 64 N	105 06 25 14 E	-		0.83	30.5	-		-81	49	RNAV1
007	DF.	ROONY	15 23 40 20 N	104 40 46 96 E		-	0.83	. 1		14	8		RNAV1

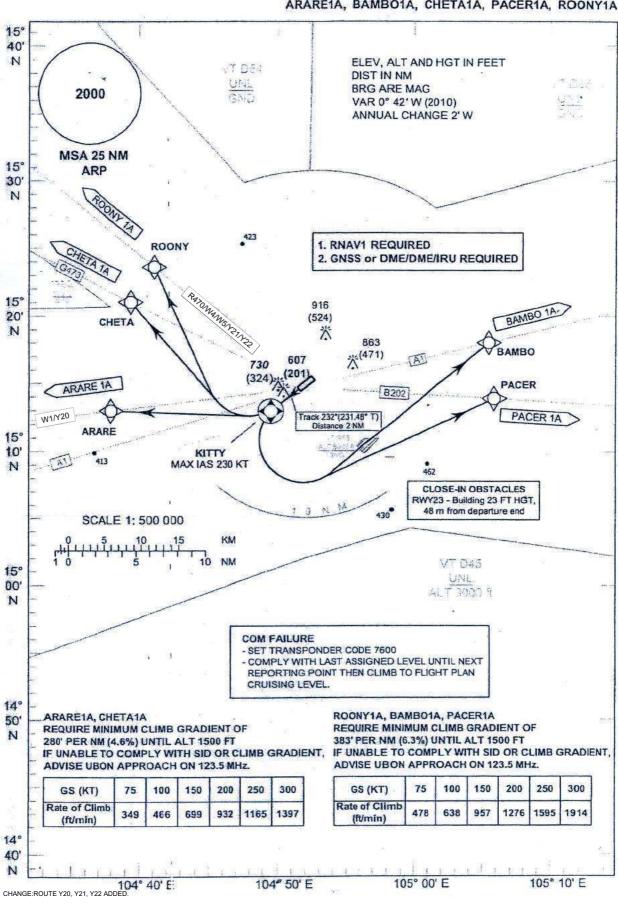
STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE 11000 FT

APP : 123.5, 257.8 TWR: 119.9, 274.5 GND: 121.9, 275.8

UBON RATCHATHANI/ Ubon Ratchathani (VTUU) **RNAV RWY23**

ARARE1A, BAMBO1A, CHETA1A, PACER1A, ROONY1A



AD 2-VTUU-6-8 AIP 18 JUL 19 **THAILAND**

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE APP : 123.5 , 257.8 TWR: 119.9, 274.5 GND: 121.9, 275.8

UBON RATCHATHANI/ Ubon Ratchathani (VTUU) **RNAV RWY23**

ARARE1A, BAMBO1A, CHETA1A, PACER1A, ROONY1A

Senal	Path	Waypoint Identifier	WGS-84 Coordinates		The same	Course	Magnetic	Distance	Turn	Alblude	Speed	VPA	Navigation
Number	Descriptor	waypoint dentitier	Latitude	Longtitude	Flyover	* M (* T)	Variation	(NM)	Direction	(FT)	(KT)		Specification
001	12	DER RWY23	5 14 34 17 N	104 51 33.46 E			0,83			115	(-)		RNAV1
002	CF	кптү	15 13 19 11 N	104 49 56 35 E	Y	232'(231.48')	0.83	2	L, R		230	-	RNAV1
003	DF	ARARE	5 12 59 33 N	104 37 34 68 E			0.83			L.			RNAVI
004	DF	BAMBO	15 18 03 89 N	105 06 01 57 E			0.83	88	6		(6)		RNAVI
005	DF	CHETA	15 21 04 49 N	104 39 01 93 E		*	0 83	-			12	13_	RNAV1
006	DF	PACER	15 13 55 64 N	105 06 25 14 E			0.83	2		-5		25	RNAV1
007	DF	ROONY '	15 23 40 20 N	104 40 46,96 E		25	0.83				-	32	RNAV1

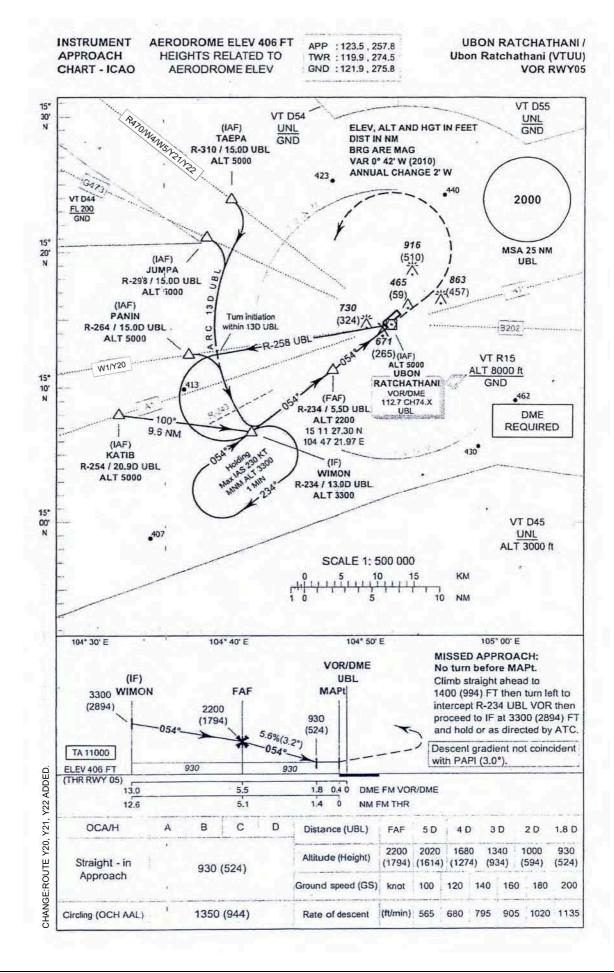


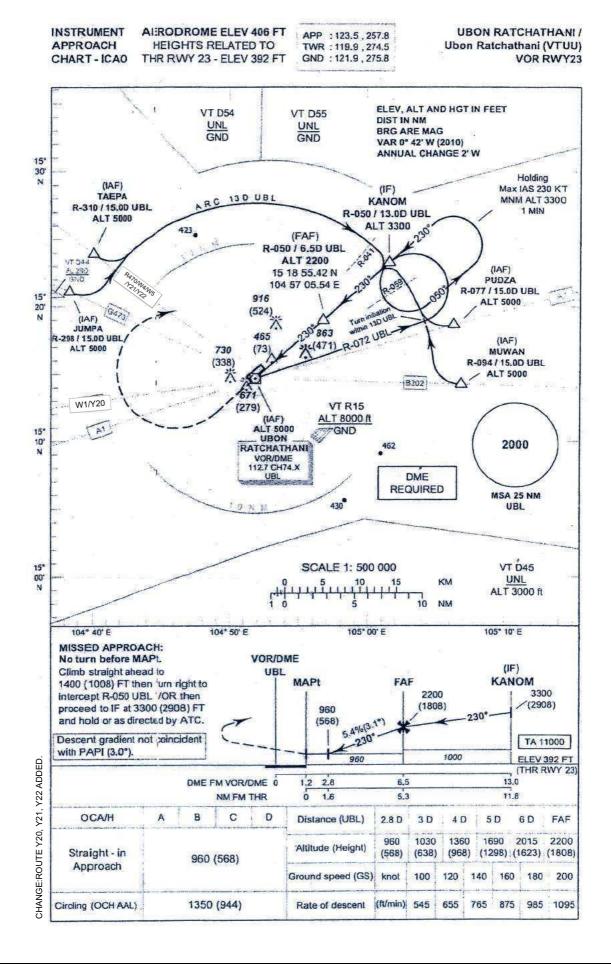
CHART - ICAO

INSTRUMENT AERODROME ELEV 406 FT APP : 123.5 , 257.8
APPROACH HEIGHTS RELATED TO TWR : 119.9 , 274.5 AERODROME ELEV

GND: 121.9, 275.8

UBON RATCHATHANI / Ubon Ratchathani (VTUU) VOR RWY05

F	ix / Point	Coordinates						
KATIB (IAF)	R-254 / 20.9 D UBL	15 08 28.67 N	104 31 17.73 E					
PANIN (IAF)	R-264 / 15.0 D UBL	15 12 51.92 N	104 36 33.08 E					
JUMPA (IAF)	R-298 / 15,0 D UBL	15 21 31.74 N	104 38 06.52 E					
TAEPA (IAF)	R-310 / 15.0 D UBL	15 24 18.58 N	104 39 59.05 E					
WIMON (IF)	R-234 / 13.0 D UBL	15 07 00.15 N	104 41 05.99 E					
FAF	R-234 / 5.5 D UBL	15 11 27.30 N	104 47 21.97 E					
MAPt '	R-234 / 0.4 D UBL	15 14 28.71 N	104 51 37.57 E					
THR RWY 05	•	15 14 34.17 N	104 51 33.46 E					
VOR (IAF)	UBL	15 14 42.71 N	104 51 57.30 E					

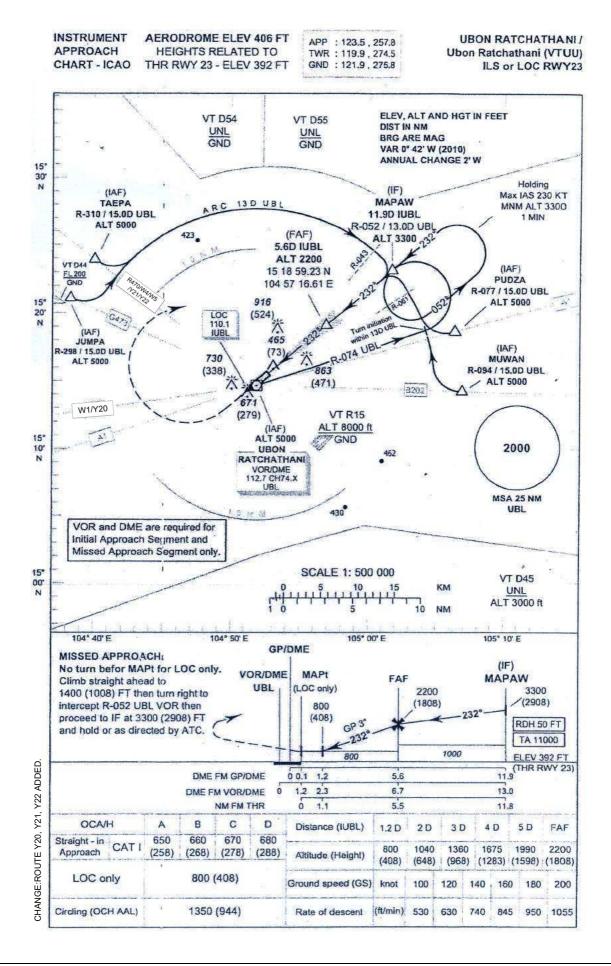


APPROACH

INSTRUMENT AERODROME ELEV 406 FT HEIGHTS RELATED TO CHART - ICAO THR RWY 23 - ELEV 392 FT APP : 123.5 , 257.8 TWR : 119.9 , 274.5 GND : 121.9 , 275.8

UBON RATCHATHANI / Ubon Ratchathani (VTUU) VOR RWY23

F	ix / Point	Coordinates						
PUDZA (IAF)	R-077 / 15.0 D UBL	15 18 18.23 N	105 07 01.90 E					
MUWAN (IAF)	R-094 / 15.0 D UBL	15 13 52.25 N	105 07 27.13 E					
JUMPA (IAF)	R-298 / 15.0 D UBL	15 21 31.74 N	104 38 06.52 E					
TAEPA (IAF)	R-310 / 15.0 D UBL	15 24 18,58 N	104 39 59.05 E					
KANOM (IF)	R-050 / 13.0 D UBL	15 23 08.02 N	105 02 13.99 E					
FAF	R-050 / 6.5 D UBL	15 18 55.42 N	104 57 05.54 E					
MAPt	R-050 / 1.2 D UBL	15 15 30.67 N	104 52 55.77 E					
THR RWY 23	-	15 15 35.02 N	104 52 52.20 E					
VOR (IAF)	UBL	15 14 42.71 N	104 51 57 30 E					



INSTRUMENT

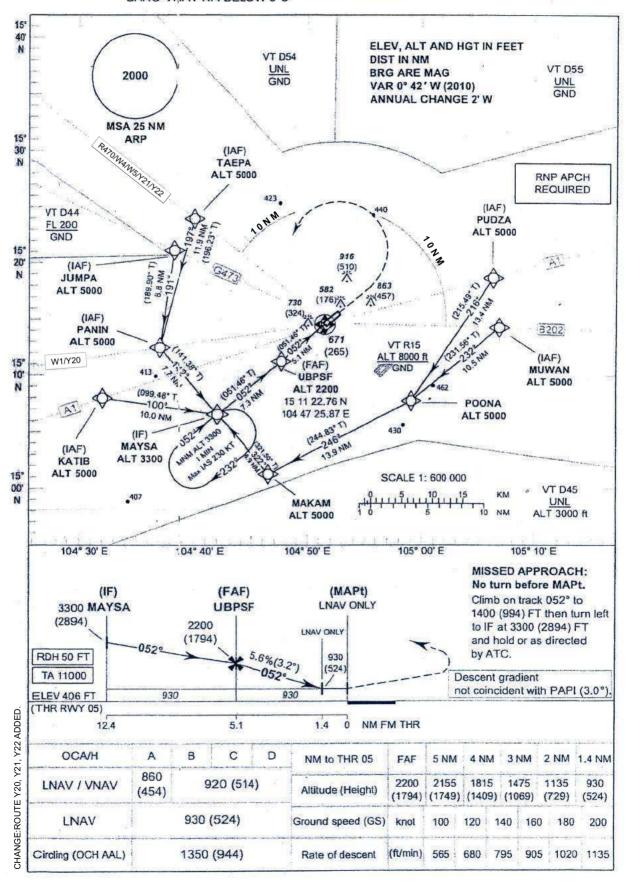
AERODROME ELEV 406 FT

UBON RATCHATHANI / Ubon Ratchathani (VTUU) ILS or LOC RWY23

F	ix / Point	Coord	linates
JUMPA (IAF)	R-298 / 15.0 D UBL	15 21 31.74 N	104 38 06.52 E
TAEPA (IAF)	R-310 / 15.0 D UBL	15 24 18.58 N	104 39 59.05 E
PUDZA (IAF)	R-077 / 15.0 D UBL	15 18 18.23 N	105 07 01 90 E
MUWAN (IAF)	R-094 / 15.0 D UBL	15 13 52.25 N	105 07 27.13 E
MAPAW (IF)	11.9 D IUBL R-052 / 13.0 D UBL	15 22 56.53 N	105 02 24.20 E
FAF	5.6 D IUBL	15 18 59.23 N	104 57 16.61 E
MAPt (LOC only)	0.1 D IUBL	15 15 35.02 N	104 52 52 20 E
THR RWY 23	-	15 15 35.02 N	104 52 52 20 E
LOC	IUBL	15 14 23.85 N	104 51 20.10 E
GP/DME	IUBL	15 15 26.05 N	104 52 47.13 E
VOR (IAF)	UBL	15 14 42.71 N	104 51 57.30 E

INSTRUMENT APPROACH CHART - ICAO AERODROME ELEV 406 FT HEIGHTS RELATED TO AERODROME ELEV BARO-VNAV NA BELOW 0°C

APP: 123.5, 257.8 TWR: 119.9, 274.5 GND: 121.9, 275.8 UBON RATCHATHANI / Ubon Ratchathani (VTUU) RNP RWY05

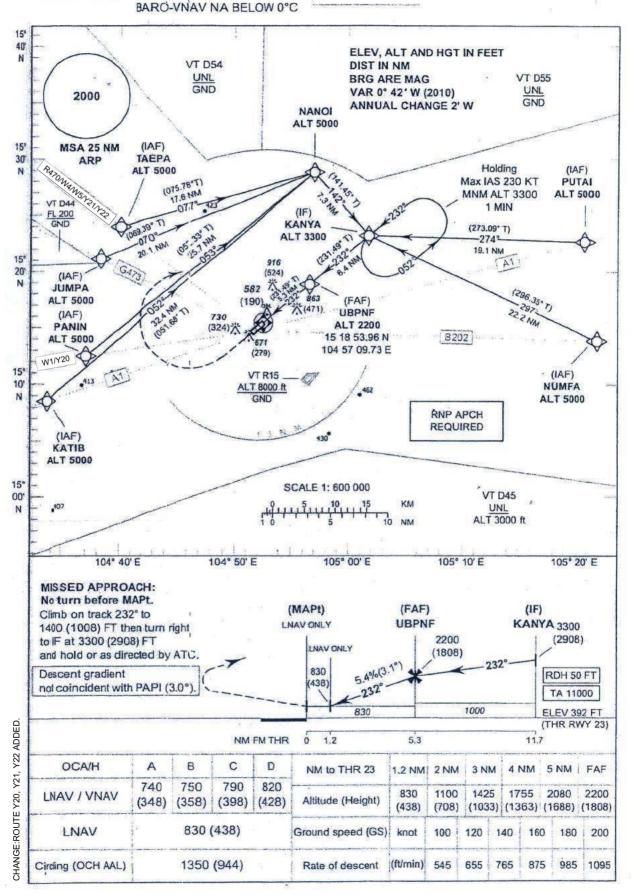


INSTRUMENT APPROACH CHART - ICAO AERODROME ELEV 406 FT HEIGHTS RELATED TO AERODROME ELEV BARO-VNAV NA BELOW 0°C APP: 123.5, 257.8 TWR: 119.9, 274.5 GND: 121.9, 275.8 UBON RATCHATHANI / Ubon Ratchathani (VTUU) RNP RWY 05

Senal	Path	Min and Man 5	WGS-84 C	oordinates	Flyover	Course	Magnetic	Distance	Turn	Altitude	Speed	VPA	Navigation
Number	Descriptor	Waypoint Identifier	Latitude	Longtitude	riyover	* M (* T)	Variation	(NM)	Direction	(FT)	(KT)	TCH	Specification
001	Œ	PUDZA (IAF)	15 18 18 23 N	105 07 G1 90 E) e	216"(215.49")	0.83	13.4		5000		80	RNP APCH
002	ıF	MUWAN (IAF)	15 13 52 25 N	105 07 27.13 E	-	232'(231.56')	0.83	10.5	8	5000	10		RNP APCH
003	TF	POONA .	15 07 20.47 N	104 58 59 08 E	2.6	246"(244.83")	0.83	13.9	R	5000	(a)	8	RNP APCH
004	TF	MAKAM	15 01 23.42 N	104 45 58.02 E		322"(321.50")	0.83	6.9	R	5000	-	V 41_	RNP APCH
005	ıF	KATIB (IAF)	15 08 28 57 N	104 31 17,73 E		100"(099.48")	0.83	10.0	<u> </u>	5000	-	-3	RNP APCH
007	IF	JUMPA (AF)	15 21 31.74 N	104 38 06 52 E	*	191"(189.90")	0.83	8.8	*	5000			RNP APCH
008	F	TAEPA (IAF)	15 24 18 58 N	104 39 59.05 E		197*(196,23*)	0.83	11.9	-	5000	18	e.	RNP APCH
006	F/TF	PANIN (IAF)	15 12 51 92 N	104 36 33 08 E	81	142"(141.38")	0.83	7.7	L	5000	*	+2	RNP APCH
009	TF	MAYSA (IF)	15 06 48 76 N	104 41 31 61 E	¥0	052*(051.46*)	0.83	7.3	L, R	3300	8	- R	RNP APCH
010	TF	UBPSF (FAF)	15 11 22.76 N	104 47 25 87 E	- 8	052"(051,46")	0.83	51	+	2200	28	4:	RNP APCH
011		MAPI (THR 05)	15 14 34 17 N	104 51 33 46 E	Y	+0	0.83	5981	-	930	2	-	RNP APCH
012	CA		(4)	(4)	-2	*2	0.83	10-83	L	1400	94	-	RNP APCH
013	OF	MAYSA (IF)	15 06 48.76 N	104 41 31.61 E	*	40	0.83	_ 0ec	2	(30)	-	-	RNP APCH
014	нм	MAYSA (IF)	15 08 48 76 N	104 41 31 61 E	Y	052'(051.46')	0.83	(4)	R	243	230	-	RNP APCH

INSTRUMENT APPROACH CHART - ICAO AERODROME ELEV 406 FT HEIGHTS RELATED TO THR RWY 23 - ELEV 392 FT

APP: 123.5, 257.8 TWR: 119.9, 274.5 GND: 121.9, 275.8 UBON RATCHATHANI / Ubon Ratchathani (VTUU) RNP RWY23



INSTRUMENT AERODROME ELEV 406 FT APP : 123.5 , 257.8

APPROACH HEIGHTS RELATED TO TWR : 119.9 , 274.5 CHART - ICAO THR RWY 23 - ELEV 392 FT BARO-VNAV NA BELOW 0°C

GND: 121.9, 275.8

UBON RATCHATHANI/ Ubon Ratchathani (VTUU) **RNP RWY 23**

Senal	Path	Waypoint densfier	WGS-84 C	oordinates	Flyover		Magnetic	Distance	Turn	Altitude	Speed	VPA	Navigation
Number	Descriptor	waypoint denamer	Latitude	Longtitude	riyover	· M (* T)	Vanation	(NM)	Direction	(FT)	(KT)	TCH	Specification
001	IF	POSAI (IAF)	15 21 52.72 N	105 22 06.99 E	22	274"(273.09")	0.83	19.1	9	5000	15	=	RNP APCH
002	TF.	NUMFA (IAF)	15 13 00.71 N	105 22 56 83 E	23	297*(296 35*)	0.83	22.2	-	5000	-	2	RNP APCH
003	F	KATIB (IAF)	15 08 28 67 N	104 31 17 73 E		052"(051.68")	0.83	32.4	9	5000	2	120	RNP APCH
004	iF.	PANIN (IAF)	15 12 51.92 N	104 36 33.08 €	9	053*(052.33*)	0.83	25.7	2	5000	12	2	RNP APCH
005	l F	JUMPA (IAF)	15 21 31.74 N	104 38 06 52 E	6	070*(069 39*)	0.83	20 1	2	5000	194	-	RNP APCH
006	MF	TAEPA (MF)	15 24 18,58 N	104 39 59 05 E	-8	077*(075.78*)	0.83	17.6	- 1	5000	19	+	RNP APCH
007	TF	NANOI	152838.06 N	104 57 38 09 E	¥	142*(141,45*)	0.83	7.3	R	5000	124	•	RNP APCH
008	TF	KANYA (IF)	15 22 53.99 N	105 02 20 58 €	÷	232'(231.49°)	0.83	64	LR	3300	194	*	RNP APCH
009	STFS	UBPNF (FAF)	15 18 53.96 N	104 57 09 73 E	9	232*(231.49*)	0.83	53	19	2200	194		RNP APCH
010	4	MAPt (THR 23)	15 15 35 02 N	104 52 52 20 E	Y	- 0	0.83	N.	R T	830	1/4	×	RNP APCH
011	CA	-	760	-	8	*	0.63	-	R	1400	92	8	RNP APCH
012	DF	KANYA (F)	15 22 53,99 N	105 02 20 58 E	2	9	0.83	8	12	1923	124		RNP APCH
013	нм	KANYA (IF)	15 22 53 99 N	105 02 20.58 E	Y	232*(231.49*)	0.83	-	L	() () e	230	-	RNP APCH