VTBU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VTBU - RAYONG / U-TAPAO RAYONG PATTAYA INTERNATIONAL AIRPORT

VTBU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	124046.6N 1010017.7E Centre of the runway, 1752.5 M from THR RWY18	
2	Direction and distance from (city)	34 KM W of Rayong	
3	Elevation/Reference temperature	18 M (59 FT) / 34°C	
4	Geoid Undulation at AD ELEV PSN	NIL	
5	MAG VAR/Annual change	0.55°W (2016) / 0.00°E	
6	AD Administration, address, telephone, telefax, telex, AFS	Royal Thai Naval Air Division U-Tapao Rayong Pattaya International Airport Banchang Rayong 21130 Thailand Tel: +663 824 5193 +663 824 5600 AFS: VTBUZTZX	
7	Types of traffic permitted (IFR/VFR)	IFR/VFR	
8	Remarks	Operator: Royal Thai Navy	

VTBU AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	NIL
12	Remarks	NIL

VTBU AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Handling weights up to 3 T	
2	Fuel/oil types	Jet A-1, AVGAS, JP8	
3	Fuelling facilities/capacity	1 JET A-1 Refueller @ 40,000 L 2 JET A-1 Refueller @ 12,000 L 1 Hydrant Dispenser for JET A-1 1 JET A-1 Refueller @ 45,000 L 1 JET A-1 Refueller @ 12,000 L 3 Hydrant Cart for JP-8 1 AVGAS DC Motor dispenser from drum 200 L	
4	De-icing facilities	NIL	
5	Hangar space for visiting aircraft	NIL	
6	Repair facilities for visiting aircraft	NIL	
7	Remarks	NIL	

VTBU AD 2.5 PASSENGER FACILITIES

1	Hotels	5 KM from AD and in the city		
2	Restaurants	In Pattaya city and Banchang		
3	Transportation	Airport buses and limousines		
4	Medical facilities	First aid station and queen Sirikit Hospital in the AD		
5	Bank and Post Office	2 KM from AD		
6	Tourist Office	In Pattaya city		
7	Remarks	NIL		

VTBU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	24 HR: Category 10	
2	Rescue equipment	2 boats of 10 people, Rescue truck, Ambulance	
3	Capability for removal of disabled aircraft	NIL	
4	Remarks	NIL	

VTBU AD 2.7 SEASONAL AVAILABILITY - CLEARING

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

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

1	Apron surface and strength	Surface: Concrete Strength: Apron A, Apron B, Apron C: PCN 38/R/B/W/T APRON D: PCN 77/R/B/X/T
2	Taxiway width, surface and strength	Width: 52.5 M Surface: Concrete and asphalt Strength: TWY A, B, C, D, E, F, G, H: PCN 65/R/B/W/T TWY I: PCN 9/R/B/W/T
3	Altimeter checkpoint location and elevation	Location at Apron Elevation 18 M (59 FT)
4	VOR checkpoints	VOR: at TWY A, D
5	INS checkpoints	NIL
6	Remarks	NIL

VTBU 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	Taxi guidance signs, all RWY and TWY intersections and holding positions.
2	RWY and TWY markings and LGT	RWY: Designation, THR, TDZ, Centre line, edge, LGT, runway end as appropriate, marked. TWY: Centre line, holding positions at all TWY/RWY intersections, marked.
3	Stop bars	NIL
4	Remarks	NIL

VTBU AD 2.10 AERODROME OBSTACLES

	In approach/TKOF area	as	In circling areas and at AD		Remarks	
1			2		3	
RWY/Area affected Obstacle type Elevation Markings/LGT		Coordinates	Obstacle type Coordinates Elevation Markings/LGT			
a b		С	а	b		
RWY 18 Left base Hill 2.2 NM NNE, 896 FT. from VOR no marking/LGT		NIL	NIL	NIL	NIL	
ligh tension line distance 840 M. from RWY THR 18, elevation of the high tension line 18 M.						

VTBU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Military Airport
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	issue TAF on standard time 00,06,12,18 UTC observe METAR every half an hour observe SPECI off standard time
4	Type of landing forecast Interval of issuance	issue TAF on standard time 00,06,12,18 UTC observe METAR every half an hour observe SPECI off standard time
5	Briefing/consultation provided	No

6	Flight documentation Language(s) used	NIL	
7	Charts and other information available for briefing or consultation	Daily Weather Forecast	
8	Supplementary equipment available for providing information	NIL	
9	ATS units provided with information	NIL	
10	Additional information (limitation of service, etc.)	NIL	

VTBU 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
18	184°(MAG)	3505x60	PCN 59/F/B/X/T Concrete and asphalt	124144.26N 1010022.66E	THR 18 M (59 FT)
36	004°(MAG)	3505x60	PCN 59/F/B/X/T Concrete and asphalt	123950.42N 1010013.26E	THR 7.6 M (24 FT)

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
0.3%	305x60	305x300	4235x300	NIL	NIL
-0.3%	305x60	305x300	4235x300	NIL	NIL

VTBU AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)			LDA (M)	Remarks
1	2	3	4	5	6
18	3505	3810	3810	3505	NIL
36	3505	3810	3810	3505	NIL

VTBU 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
18	CAT1 (570 M)	Green	PAPI BI-Latteral 3°	NIL	NIL	3505 M 60 M White LIH	Red	NIL	NIL
36	SALS	Green	PAPI Left 3°	NIL	NIL	3505 M 60 M LIH	Red	NIL	NIL

VTBU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: Adjacent to control tower, W and G lights, 8 revolution/MIN. Sunset to sunrise and daylight when low visibility.
2	LDI location and LGT Anemometer location and LGT	NIL
3	TWY edge and centre line lighting	TWY edge lights (blue)
4	Secondary power supply/switch-over time	Automatic standby power supply generator is available for aerodrome lighting and control tower.
5	Remarks	NIL

VTBU 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	Landing on TWY E.

VTBU AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	A circle of 5 NM radius centred on 1240.7N 10100.5E
2	Vertical limits	up to but not including 2000 FT/AGL
3	Airspace classification	С
4	ATS unit call sign Language(s)	U-Tapao Tower English, Thai
5	Transition altitude	11000 FT
6	Remarks	NIL

VTBU AD 2.18 ATS COMMUNICATION FACILITIES

Service Call sign designation		Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	U-Tapao Approach	119.7 MHZ 121.5* MHZ	H24	RTN
İ		134.5 MHZ		*Emergency Freq.
		238.3 MHZ		
		273.3 MHZ		
		243.0 MHZ		
TWR	U-Tapao Tower	118.1 MHZ	H24	
	·	118.3 MHZ		
		121.5* MHZ		
		227.0 MHZ		
		243.0* MHZ		
GND	U-Tapao Ground	121.9 MHZ	H24	
		275.8 MHZ		

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
ATIS		414.0 KHZ	H24	

VTBU 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	UP	414 KHZ	H24	123943.02N 1005941.96E		
DVOR/DME	BUT	110.8 MHZ CH 45X	H24	124000.02N 1010001.71E	6 M / AGL	DVOR/DME restriction, due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal 40 NM at required altitude in various areas. 1. 40 NM orbit flown from RDL 041-090 degree ALT should not below 3 500 FT RDL 091-110 degree ALT should not below 4 500 FT RDL 111-200 degree ALT should not below 2 000 FT RDL 201-240 degree ALT should not below 4 000 FT RDL 321-040 degree ALT should not below 4 500 FT RDL 321-040 degree ALT should not below 4 500 FT. 2. 25 NM orbit flown from - RDL 241-280 degree ALT should not below 2 500 FT RDL 281-320 degree ALT should not below 3 000 FT.
ILS CAT I LOC/DME RWY 18	IBUT	111.1 MHZ CH 48X	H24	123936.66N 1010012.13E		A. The Cat I ILS/DME installed at U-Tapao Rayong Pattaya International Airport for RWY18. There is no back course. The
GP		331.7 MHZ	H24	124130.31N 1010025.52E	5 M / AGL	localize aerial array is located on the extended runway centre line at distance of 420 M (1377.9 FT) from the threshold of
ММ		75 MHZ		1242.1N 101 00.0E		RWY 36. The antenna array 1.30 M (4.3 FT) high is installed on top of wooden platform 3.6 M (11.8 FT) high above ground, with an
Compass Locator	UT	234 KHZ	H24	1242.1N 101 00.0E		aperture of 40.3 M (132.2 FT). B. DME paired with LOC. frequency omnidirectional, low power (100 watts). C. Glide Path 3° above the horizontal, paired with localizer frequency. The 15 M (49.2 FT) glide path aerial mast is offset 120 M(393.7 FT) to the east side of runway centre line and from threshold of RWY18, 371 M (1217 FT). D. Middle Marker 1050 M (3445 FT) from threshold of RWY18 along extended runway centre line.
TACAN	BUT	CH 105	2300-1100	1240.5N 101 00.4E		Military Facilities 30 min PN to ATC.

 AIP
 AD 2-VTBU-1-7

 THAILAND
 12 SEP 19

VTBU AD 2.20 LOCAL AERODROME REGULATIONS

1. VFR FLIGHT IN U-TAPAO TERMINAL CONTROL AREA/ CONTROL ZONE

- 1.1 BY DAY (Sunrise/Sunset)
- 1.1.1 Unless otherwise specifically authorized, VFR flights shall not be Permitted to land / take-off at Rayong/U-Tapao Rayong Pattaya International Airport when conditions as reported to U-Tapao APP/TWR, by an authorized ground observer are less than

Ground Visibility - 5 KM; or

Ceiling - 450 M (1 500 FT)

1.1.2 Authorization may be granted by ATC for special VFR flights (1.4) to land / take-off at Rayong/U-Tapao Rayong Pattaya International Airport under conditions less than 1.1.1 above but not less than

Ground Visibility - 1 500 M

- 1.1.3 As reported to U-Tapao APP/TWR, by an authorized ground observer.
- 1.2 BY NIGHT (Sunrise/Sunset)
- 1.2.1 VFR flights to land/take-off at Rayong/U-Tapao Rayong Pattaya International Airport shall not be permitted to operate between sunset and sunrise, or such other period between sunset and sunrise as may be prescribed by U-Tapao APP/TWR.
- 1.3 AT ALL TIME as authorized
- 1.3.1 VFR flights within the U-TAPAO TMA/ CTR shall be conducted so that the aircraft maintain flight visibility and distance from cloud equal to or greater than those specified in ICAO Annex 2, Chapter 4 Table 4-1, viz:
 - Flight Visibility
 -8 KM at and above 3 050 M (10 000 FT) AMSL

-5 KM below 3 050 M (10 000 FT) AMSL

- Distance from cloud -1500 M horizontally and 300 M (1 000 FT) vertically
- 1.4 SPECIAL VFR FLIGHTS may be permitted when ground visibility is not less than 1500 M, provided that the aircraft is equipped with functioning radio receiver and the pilot has agreed to guard on the appropriate ATC communication frequency. ATC shall effect IFR separation between all special VFR flights and between such flights and IFR flights.

2. VFR DEPARTURE PROCEDURES

2.1 After take-off, aircraft shall continue climbing straight ahead until passing the departure end of runway unless safety dictates otherwise or when specifically authorized by the tower.

3. U-TAPAO VFR LOCAL PROCEDURES

3.1 Aerodrome Traffic Pattern

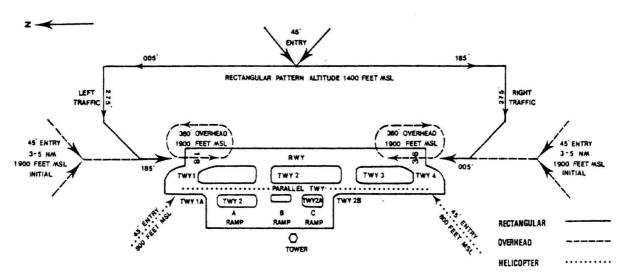
Traffic pattern shown in diagram. The unlighted 896 FT hill, 2.2 NM NNE of U-Tapao constitutes a hazard to VFR operation:

- 3.1.1 Rectangular
 - Altitude 1 400 FT MSL
 - Left traffic for runway 18
 - Right traffic for runway 36
 - Enter downwind leg at a 45°.
- 3.1.2 Overhead approach
 - Altitude 1 900 FT MSL
 - Runway 18 left turns
 - Runway 36 right turns
 - Enter final at a 45°.
- 3.1.3 Helicopter
 - Altitude 800 FT MSL
 - Right traffic for runway 18
 - Left traffic for runway 36
 - Landing on parallel taxiway
 - Enter parallel taxiway at a 45°.

3.2 VFR Departure Procedures

3.2.1 After taking off aircraft shall continue climbing straight ahead until passing the departure end of runway unless safety dictates otherwise or when specifically authorized by the tower.

VFR TRAFFIC PATTERNSFIELD ELEVATION 59 FT



4. RADIO COMMUNICATIONS FAILURE

- 4.1 Departing Aircraft
- 4.1.1 Aircraft shall not be permitted to take-off unless two-way radio communication can be maintained with the control tower.
- 4.1.2 If an aircraft experiences radio communications failure after departure, the pilot shall comply with the VFR cruising altitude.
- 4.2 Arriving Aircraft
- 4.2.1 When aircraft radio receiver inoperative, report their position, distance, heading, altitude and departure point when approaching 50NM from U-Tapao Rayong Pattaya International Airport by transmitting in the blind.
- 4.2.2 When two-way communications failure, radio transmitter or receiver inoperative, observe the direction of traffic in the pattern, and enter downwind with the flow of traffic.

4.2.2.1 Day time

- Joining the traffic pattern of the landing runway be conformed to the altitude for the type of aircraft as listed in item 3, then
 make a low approach along the runway at 500 FT above the terrain, rocking wings of the aircraft until it reaches end of the
 runway.
- Re-enter downwind leg and observe light signals from the control tower.

4.2.2.2 Night time

- Joining the traffic pattern of the landing runway be conformed to the altitude for the type of aircraft as listed in item 3, then
 make a low approach along the runway at 500 FT above the terrain, and blinking the landing light until it reaches end of
 runway.
- Re-enter downwind leg and observe light signals from the control tower for light signal on base leg and final approach.

5. LOCAL FLYING RESTRICTION

Flying over gas separation plant in Rayong (Ban Map Ta Phut) is hazardous. Aircraft are to avoid area starting from 1241.2N 10108.0E then clockwise along an arc of 2 NM radius from 1243.0N 10109.0E to 1243.0N 10111.0E then direct to 1238.5N 10111. 0E from this point make an arc of 5 NM radius from 1243.0N10109.0E clockwise to 1238.2N 10108.0E then direct to the starting point, altitude 2 000 FT.

VTBU AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VTBU AD 2.22 FLIGHT PROCEDURES

1. GENERAL PROCEDURES

- 1.1 All aircraft flying within U-TAPAO Controlled airspaces equipped with SSR Transponder shall be provided Radar Approach Control Service, and other provided procedural.
- 1.2 Service Designation
- 1.2.1 Radar Approach Control Service
- 1.2.1.1 Aircraft to be provided by Radar Approach Control Service by means of SSR shall be equipped with a functioning operating on the appropriate MODE(S) and CODE (S)
- 1.2.1.2 The provision of Radar Approach Control Service:
 - a) Provide Radar Vectoring of Arriving traffic on to pilot-Interpreted Final Approach Aids
 - b) Provide Radar Vectoring of Arriving traffic to a point from which a Visual Approach can be complete
 - c) Provide Radar Monitoring of other pilot-Interpreted Approaches.
 - d) Provide Radar Monitoring of aircraft equipped with SSR transponder while in affected airspace.
 - e) Provided Radar Separation between:
 - Succeeding Departing Aircraft.
 - Succeeding Arriving Aircraft.
 - A Departing aircraft and a Succeeding Arriving aircraft.

1.2.2 Procedural

Procedural shall be applied between Aircraft with functioning transponder and other aircraft, and between all non-transponding aircraft within the affected airspace.

- 1.3 All Aircraft shall obtain appropriate ATC Clearance before penetrating the affected airspace.
- 1.4 The radar separation Minimum to be used is 5 NM.
- 1.5 Emergency safe altitude for aircraft within 100 NM of U-Tapao Rayong Pattaya International Airport is 7,600 FT, descend below this level is only permitted in accordance with published Instrument Approach Procedures or ATS Routes Structure or Minimum Vector Altitude or Minimum Sector Altitude or when the aircraft having reported the terrain in-sight and has been cleared for visual approach.
- 1.6 Transition level is fixed at FL 130 and transition altitude is altitude 11,000 FT
- 1.7 Speed control may be applied on a tactical to the extent-determined necessary by the controller. Aircraft unable to conform to the speeds specified by the controller shall inform him immediately, and state what speeds will be used. In the interests of accurate spacing, pilot are requested to comply with speed adjustments as promptly as feasible within their own operational constraints, and should advise ATC if circumstance necessitate a change of speed for aircraft performance reasons.

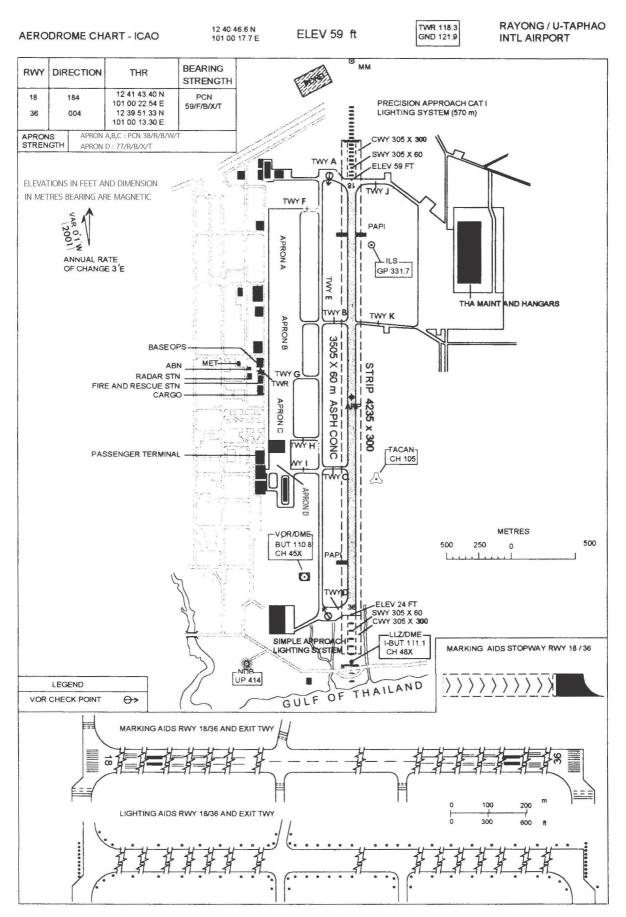
VTBU AD 2.23 ADDITIONAL INFORMATION

NIL

VTBU AD 2.24 CHARTS RELATED TO AN AERODROME

Chart name	Page
Aerodrome Chart - ICAO	AD 2-VTBU-2-1
Aerodrome Ground Movement Chart - ICAO	AD 2-VTBU-2-3
Aerodrome Ground Movement Chart - ICAO (Verso)	AD 2-VTBU-2-4
Aerodrome Obstacle Chart - ICAO Type A - RWY 18/36	AD 2-VTBU-3-1
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 18 - BKK1A	AD 2-VTBU-6-1
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 18 - BKK1A (Tabular description)	AD 2-VTBU-6-2
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 36 - BKK1B	AD 2-VTBU-6-3
Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 36 - BKK1B (Tabular description)	AD 2-VTBU-6-4
Instrument Approach Chart - ICAO - NDB RWY 36	AD 2-VTBU-8-1
Instrument Approach Chart - ICAO - VOR RWY 18	AD 2-VTBU-8-3
Instrument Approach Chart - ICAO - VOR RWY 18 (Fix and point list table)	AD 2-VTBU-8-4
Instrument Approach Chart - ICAO - VOR RWY 36	AD 2-VTBU-8-5

Chart name	Page
Instrument Approach Chart - ICAO - VOR RWY 36 (Fix and point list table)	AD 2-VTBU-8-6
Instrument Approach Chart - ICAO - ILS or LOC RWY 18	AD 2-VTBU-8-7
Instrument Approach Chart - ICAO - ILS or LOC RWY 18 (Fix and point list table)	AD 2-VTBU-8-8
Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 18	AD 2-VTBU-8-9
Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 18 (Tabular description)	AD 2-VTBU-8-10
Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 36	AD 2-VTBU-8-11
Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 36 (Tabular description)	AD 2-VTBU-8-12

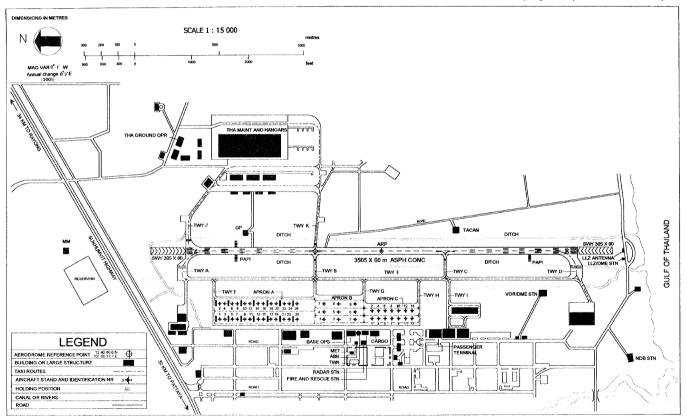


CHANGE: APRON D ADDED AND APRONS STRENGTH



AERODROME GROUND MOVEMENT CHART

Rayong / U-Taphao International Airport

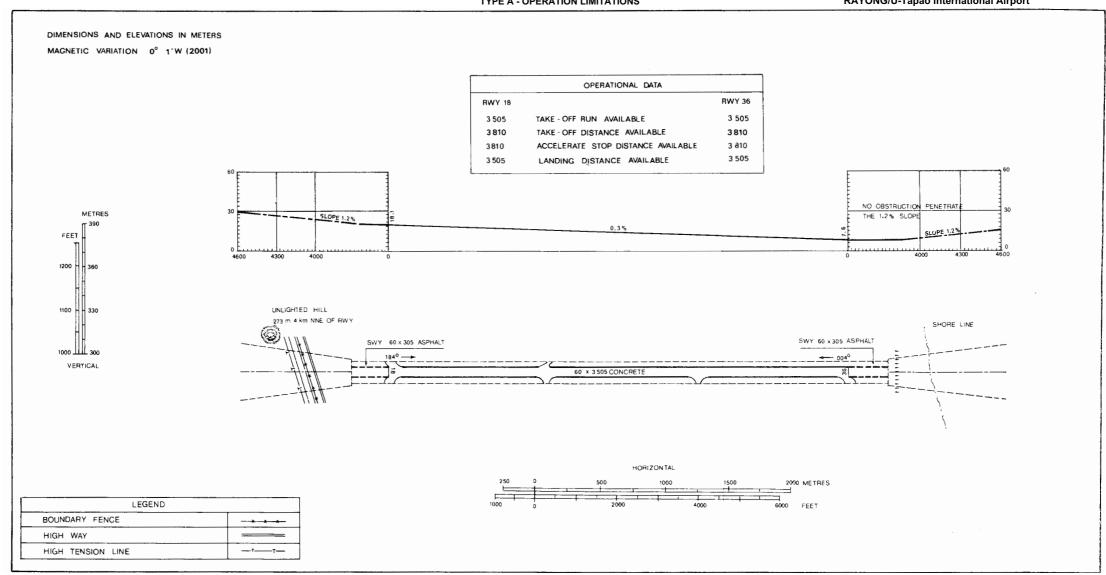


	APRON A (B747-400)				APRON B (B747-400)		APRON C (B747-400)
NR	COORDINATES		NR COORDINATES		COORDINATES	NR	COORDINATES
A1	12 41 34.01 N 101 00 02.38 E	A14	12 41 21.75 N 101 00 04.41 E	B1	12 41 05.77 N 100 59 58.91 E	C1	12 40 52.07 N 100 59 58.85 E
42	12 41 33.58 N 101 00 05.90 E	A15	12 41 20.20 N 101 00 01.79 E	B2	12 41 00.82 N 100 59 58.50 E	C2	12 40 52.12 N 101 00 02.59 E
A3	12 41 32.13 N 101 00 02.23 E	A16	12 41 19.79 N 101 00 04.25 E	В3	12 40 56.88 N 100 59 58.16 E	СЗ	12 40 50.10 N 100 59 58.68 E
44	12 41 31.60 N 101 00 05.73 E	A17	12 41 18.21 N 101 00 01.58 E	B4	12 41 05.58 N 101 00 01.17 E	C4	12 40 50.24 N 101 00 02.44 E
A5	12 41 30.08 N 101 00 02.60 E	A18	12 41 17.81 N 101 00 04.59 E	85	12 41 00.64 N 101 00 00.78 E	C5	12 40 48.22 N 100 59 58.52 E
48	12 41 29.62 N 101 00 05.56 E	A19	12 41 16.30 N 101 00 00.91 E	B6	12 40 56.69 N 101 00 00.44 E	C6	12 40 48 26 N 101 00 02 28 E
A7	12 41 28.14 N 101 00 02.39 E	A20	12 41 15.77 N 101 00 04.42 E	B7	12 41 05.40 N 101 00 03.44 E	C7	12 40 46.24 N 100 59 58.36 E
48	12 41 27.69 N 101 00 05.01 E	A21	12 41 14.30 N 101 00 01.14 E	B8	12 41 00.47 N 101 00 03.05 E	C8	12 40 46.28 N 101 00 02.12 E
49	12 41 26.22 N 101 00 01.74 E	A22	12 41 13.80 N 101 00 04.26 E	B9	12 40 56.50 N 101 00 02.70 E	C9	12 40 44.28 N 100 59 58.19 E
110	12 41 25.81 N 101 00 04.69 E	A23	12 41 12.28 N 101 00 01.08 E			C10	12 40 44.31 N 101 00 01.95 E
411	12 41 24.22 N 101 00 01.57 E	A24	12 41 11.86 N 101 00 04.10 E			C11	12 40 42.28 N 100 59 58.03 E
412	12 41 23.73 N 101 00 04.48 E	A25	12 41 10.33 N 101 00 00.42 E			C12	12 40 42.32 N 101 00 01.79 E
413	12 41 22.10 N 101 00 01.95 E	A26	12 41 09.87 N 101 00 03.93 E			C13	12 40 40.21 N 100 59 57.87 E
						C14	12 40 40.34 N 101 00 01.62 E

AERODROME OBSTRUCTION CHART - ICAO

TYPE A - OPERATION LIMITATIONS

RAYONG/U-Tapao International Airport





STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

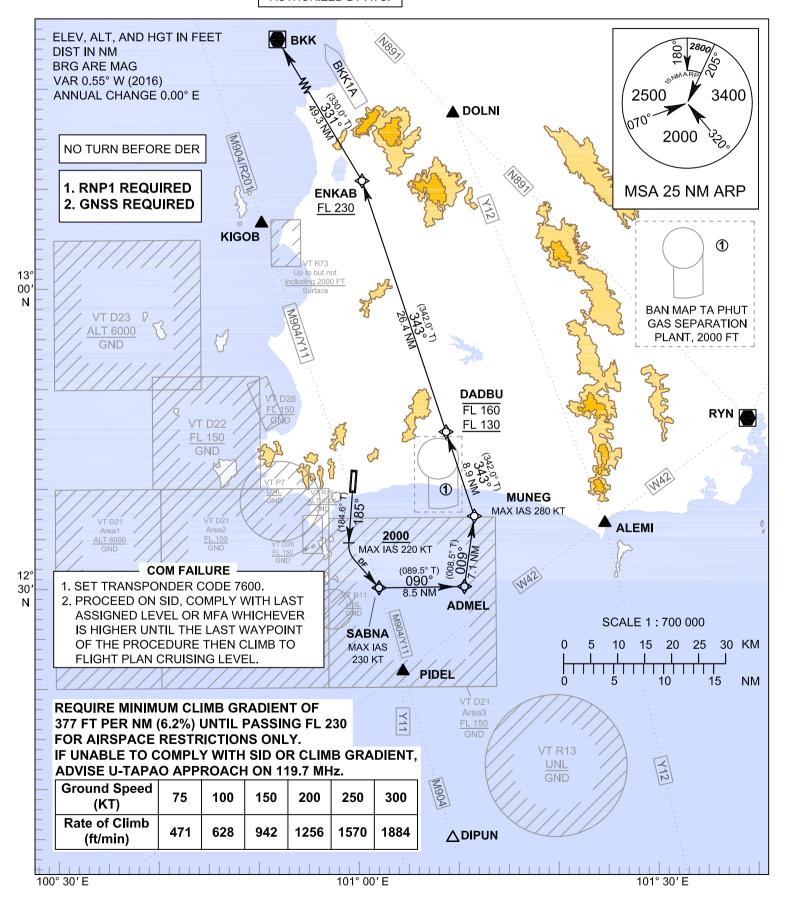
TRANSITION ALTITUDE 11000 FT

SPEED RESTRICTION MAX IAS 250 KT AT OR

BELOW ALT 10000 FT UNLESS OTHERWISE AUTHORIZED BY ATC. APP: 119.7, 134.5 : 238.3, 273.3 TWR: 118.1, 118.3

: 227.0 GND : 121.9, 275.8 RAYONG / U-TAPAO RAYONG PATTAYA Intl (VTBU) RNAV RWY18

BKK1A



STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

RAYONG / U-TAPAO RAYONG PATTAYA Intl (VTBU) RNAV RWY18

BKK1A

TABULAR DESCRIPTION

VY18										
Path			Course	Magnetic	Distance	Turn	Altitude	Speed	VPA/	Navigation
Descriptor	Waypoint Identifier	Flyover	° M (° T)	Variation	(NM)	Direction	(FT)	(KT)	TCH	Specification
		•								1
-	DER RWY18	-	-	+0.55	-	-	-	-	-	RNP 1
CA	-	-	185°(184.6°)	+0.55	-	-	+2000	-220	-	RNP 1
DF	SABNA	-	-	+0.55	-	L	-	-230	-	RNP 1
TF	ADMEL	-	090°(089.5°)	+0.55	8.5	L	-	-	-	RNP 1
TF	MUNEG	-	009°(008.5°)	+0.55	7.1	L	1	-280	-	RNP 1
TF	DADBU	-	343°(342.0°)	+0.55	8.9	-	-FL160 ; +FL130	-	-	RNP 1
TF	ENKAB	-	343°(342.0°)	+0.55	26.4	L	+FL230	-	-	RNP 1
TF	BKK	-	331°(330.0°)	+0.55	49.3	-	-	-	-	RNP 1
	Path Descriptor - CA DF TF TF TF	Path Descriptor - DER RWY18 CA - DF SABNA TF ADMEL TF MUNEG TF DADBU TF ENKAB	Path Descriptor Waypoint Identifier Flyover - DER RWY18	Path Descriptor Waypoint Identifier Flyover Course ° M (° T) - DER RWY18 - - CA - - 185°(184.6°) DF SABNA - - TF ADMEL - 090°(089.5°) TF MUNEG - 009°(008.5°) TF DADBU - 343°(342.0°) TF ENKAB - 343°(342.0°)	Path Descriptor Waypoint Identifier Flyover Course of M (° T) Magnetic variation - DER RWY18 - - +0.55 CA - - 185°(184.6°) +0.55 DF SABNA - - +0.55 TF ADMEL - 090°(089.5°) +0.55 TF MUNEG - 009°(008.5°) +0.55 TF DADBU - 343°(342.0°) +0.55 TF ENKAB - 343°(342.0°) +0.55	Path Descriptor Waypoint Identifier Flyover Course of M (° T) Magnetic variation Distance (NM) - DER RWY18 - - +0.55 - CA - - 185°(184.6°) +0.55 - DF SABNA - - +0.55 - TF ADMEL - 090°(089.5°) +0.55 8.5 TF MUNEG - 009°(008.5°) +0.55 7.1 TF DADBU - 343°(342.0°) +0.55 8.9 TF ENKAB - 343°(342.0°) +0.55 26.4	Path Descriptor Waypoint Identifier Flyover Flyover Course of M (° T) Magnetic variation Distance (NM) Turn Direction - DER RWY18 - - +0.55 - - CA - - 185°(184.6°) +0.55 - - DF SABNA - - +0.55 - L TF ADMEL - 090°(089.5°) +0.55 8.5 L TF MUNEG - 009°(008.5°) +0.55 7.1 L TF DADBU - 343°(342.0°) +0.55 8.9 - TF ENKAB - 343°(342.0°) +0.55 26.4 L	Path Descriptor Waypoint Identifier Flyover Course of M (° T) Magnetic variation Distance (NM) Turn Direction Altitude (FT) - DER RWY18 - - +0.55 - - - CA - - 185°(184.6°) +0.55 - - +2000 DF SABNA - - +0.55 - L - TF ADMEL - 090°(089.5°) +0.55 8.5 L - TF MUNEG - 009°(008.5°) +0.55 7.1 L - TF DADBU - 343°(342.0°) +0.55 8.9 - -FL160 ; +FL130 TF ENKAB - 343°(342.0°) +0.55 26.4 L +FL230	Path Descriptor Waypoint Identifier Flyover Flyover Course of Magnetic of M (° T) Distance of Magnetic of NM) Distance of NM Turn of NM Altitude of NM Speed of NM - DER RWY18 - - +0.55 - - - - CA - - 185°(184.6°) +0.55 - - +2000 -220 DF SABNA - - +0.55 - L - -230 TF ADMEL - 090°(089.5°) +0.55 8.5 L - - TF MUNEG - 009°(008.5°) +0.55 7.1 L - -280 TF DADBU - 343°(342.0°) +0.55 8.9 - -FL160 ; +FL130 - TF ENKAB - 343°(342.0°) +0.55 26.4 L +FL230 -	Path Descriptor Waypoint Identifier Flyover Plyore Course on Magnetic on Mag

WAYPOINT LIST

RNAV RWY18							
Waypoint Identifier	Coordinates						
DER RWY18	12° 39' 50.42" N 101° 00' 13.26" E						
ADMEL	12° 30' 09.67" N 101° 11' 34.85" E						
BKK	13° 53' 36.80" N 100° 35' 46.30" E						
DADBU	12° 45' 41.72" N 101° 09' 50.05" E						
ENKAB	13° 10' 57.00" N 101° 01' 26.00" E						
MUNEG	12° 37' 12.93" N 101° 12' 38.89" E						
SABNA	12° 30' 04.87" N 101° 02' 51.33" E						

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

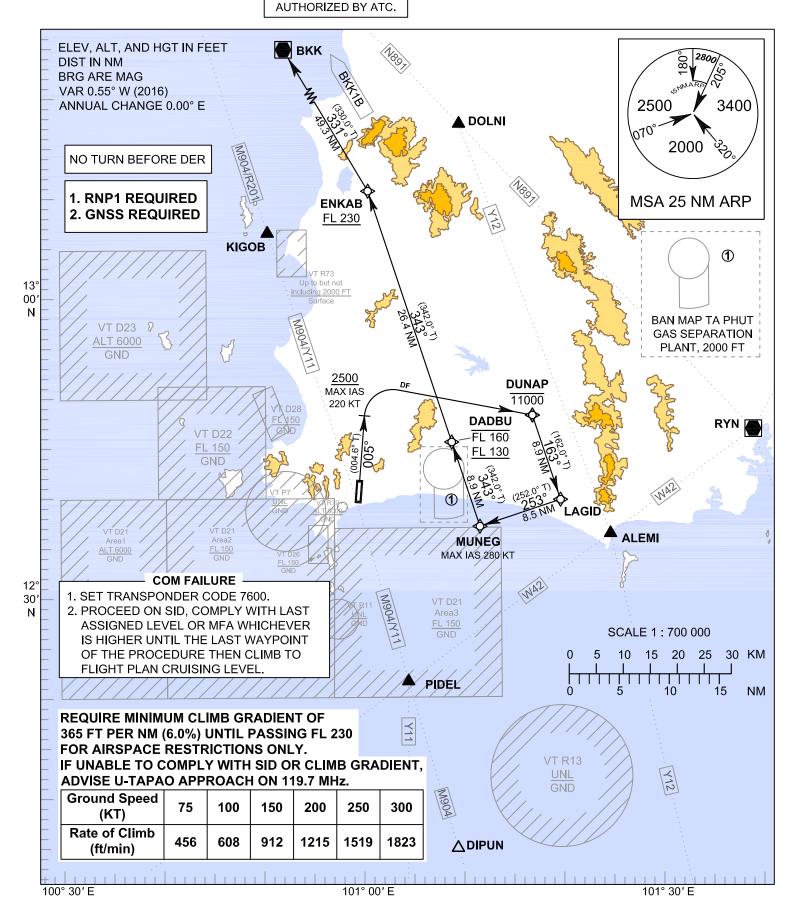
TRANSITION ALTITUDE 11000 FT

SPEED RESTRICTION
MAX IAS 250 KT AT OR
BELOW ALT 10000 FT
UNLESS OTHERWISE

APP : 119.7 , 134.5 : 238.3 , 273.3

TWR: 118.1, 118.3 : 227.0 GND: 121.9, 275.8 RAYONG / U-TAPAO RAYONG PATTAYA Intl (VTBU) RNAV RWY36

BKK1B



AD 2-VTBU-6-4
18 JUL 19
THAILAND

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

RAYONG / U-TAPAO RAYONG PATTAYA Intl (VTBU) RNAV RWY36

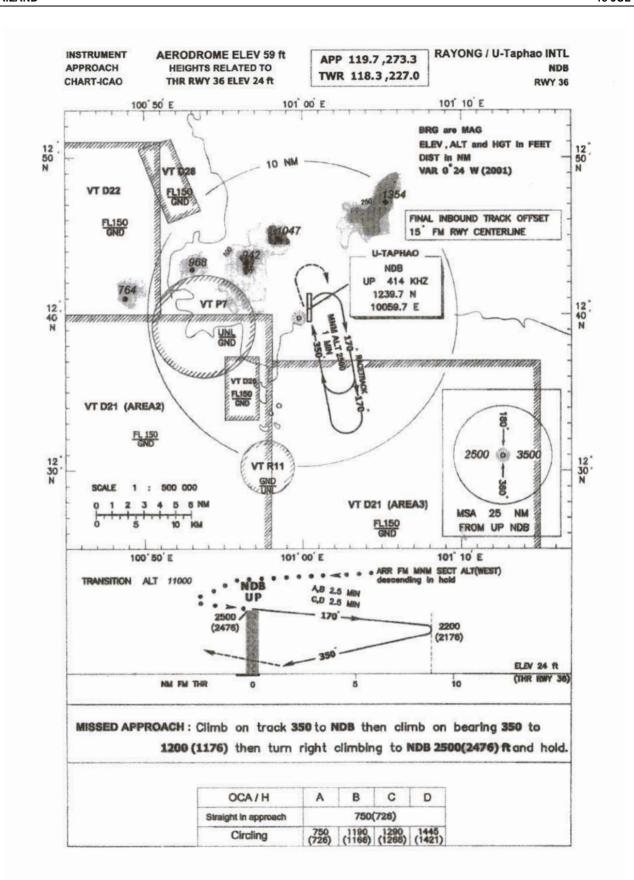
BKK1B

TABULAR DESCRIPTION

RNAV RWY36											
Serial	Path	Manacint Identifica	- Chianan	Course	Magnetic	Distance	Turn	Altitude	Speed	VPA/	Navigation
Number	Descriptor	Waypoint Identifier	Flyover	° M (° T)	Variation	(NM)	Direction	(FT)	(KT)	TCH	Specification
BKK1B											
010	-	DER RWY36	-	-	+0.55	-	-	-	-	-	RNP 1
020	CA	-	-	005°(004.6°)	+0.55	-	-	+2500	-220	-	RNP 1
030	DF	DUNAP	-	-	+0.55	-	R	-11000	-	-	RNP 1
040	TF	LAGID	-	163°(162.0°)	+0.55	8.9	R	-	-	-	RNP 1
050	TF	MUNEG	-	253°(252.0°)	+0.55	8.5	R	-	-280	-	RNP 1
060	TF	DADBU	-	343°(342.0°)	+0.55	8.9	-	-FL160 ; +FL130	-	-	RNP 1
070	TF	ENKAB	-	343°(342.0°)	+0.55	26.4	L	+FL230	-	-	RNP 1
080	TF	BKK	-	331°(330.0°)	+0.55	49.3	-	-	-	-	RNP 1

WAYPOINT LIST

RNAV RWY36							
Waypoint Identifier	Coordinates						
DER RWY36	12° 41' 44.26" N 101° 00' 22.66" E						
вкк	13° 53' 36.80" N 100° 35' 46.30" E						
DADBU	12° 45' 41.72" N 101° 09' 50.05" E						
DUNAP	12° 48' 20.33" N 101° 18' 06.34" E						
ENKAB	13° 10' 57.00" N 101° 01' 26.00" E						
LAGID	12° 39' 51.46" N 101° 20' 54.94" E						
MUNEG	12° 37' 12.93" N 101° 12' 38.89" E						





RAYONG / U-TAPAO RAYONG

INSTRUMENT

AERODROME ELEV 59 FT

APPROACH HEIGHTS RELATED TO **PATTAYA INTL (VTBU) TWR** 118.1, 118.3 **CHART - ICAO** AERODROME ELEV 227.0 **VOR RWY18** GND: 121.9 , 275.8 M904/711 1200 1799 (IAF) (IF) PÌWÁT VÌTÝA R-342 / 16.0D BUT R-008 / 11.8D BUT **ALT 4000** ALT 2500 VT D23 14 D_ B U T 2500 ALT 6 000 ft 3400 R-360 BUT R_C Turn initiation 2000 12° within 11.8D BUT 50' Ν (FAF) 2316 MSA 25 NM BUT ÙTP18 (SDF) VT D22 ⟨R-008 / 6.8D <mark>€U</mark>T UTSDF FL 150 ALT 1700 **R-008 / 4.9D BUT** ALT 1100 (IAF) GND ALT 6000 900 **8**30 U-TAPAO (IAF) • 1046 VOR/DME 110.8 MHz CH 45X IFONÉ R-090 / 18.0D BUT BUT **ALT 4000** 12° MNM ALT 40' MAXIAS 230 K Ν UMI MNM ALT 4000 GND 1 MIN 圣艺 MAX IAS 230 KT SAMIT R 182 / 3 6D BUT 090° VT D21 Area2 FL 150 Missed Approach GND **GND** MAX IAS 200 KT 12° ELEV, ALT, AND HGT IN FEET 30' DIST IN NM Ν **BRG ARE MAG** VAR 0.55° W (2016) ANNUAL CHANGE 0.00° E VT D21 DME Area3 REQUIRED FL 150 SCALE 1: 500 000 GND 101° 00' E 101° 20' E 100° 40' E 100° 50' E 101° 10' E **CAUTION: Aircraft shall avoid entering VT R11 MISSED APPROACH:** VOR/DME (SDF) (IF) No turn before MAPt. **BUT (MAPt)** SAMIT VITYA UTSDF **UTP18** Speed restricted to MAX IAS 200 KT until after turn. 2500 Climb to intercept outbound R-182 BUT 1100 1700 (2441)(1041)(1641)VOR to SAMIT. After SAMIT and ALT 5.2% .188° passing 1500 FT, turn left to intercept (3.0°) 960 outbound R-090 BUT VOR, then (901)188°***** TA 11000 proceed to IFONE and hold or as directed by ATC 1200 1100 ELEV 59 FT 11.8 (THR RWY18) DME FM VOR/DME n 1.8 4549 6.8 NM FM THR 2731 10.0 Ó 5.0 Distance (BUT) OCA/H Α В С D 4.5 D 5 D 6 D FAF 960 1120 1435 1700 Altitude (Height) Straight-in (901)(1061)(1376)(1641)960 (901) Approach Ground speed 160 knot 70 90 100 120 140 Circling (OCH AAL) 1200 (1141) 1450 (1391) (ft/min) Rate of descent 369 474 527 632 737 843

APP

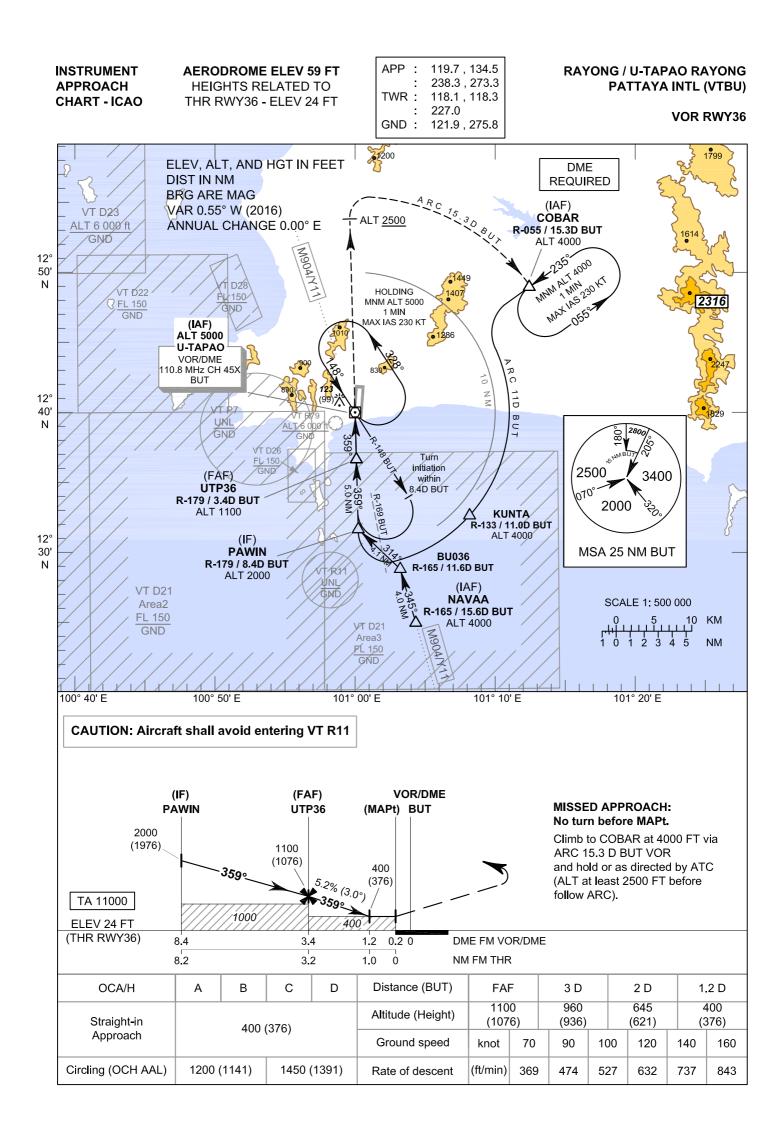
119.7, 134.5

238.3, 273.3

AERODROME ELEV 59 FT HEIGHTS RELATED TO AERODROME ELEV RAYONG / U-TAPAO RAYONG PATTAYA INTL (VTBU)

VOR RWY18

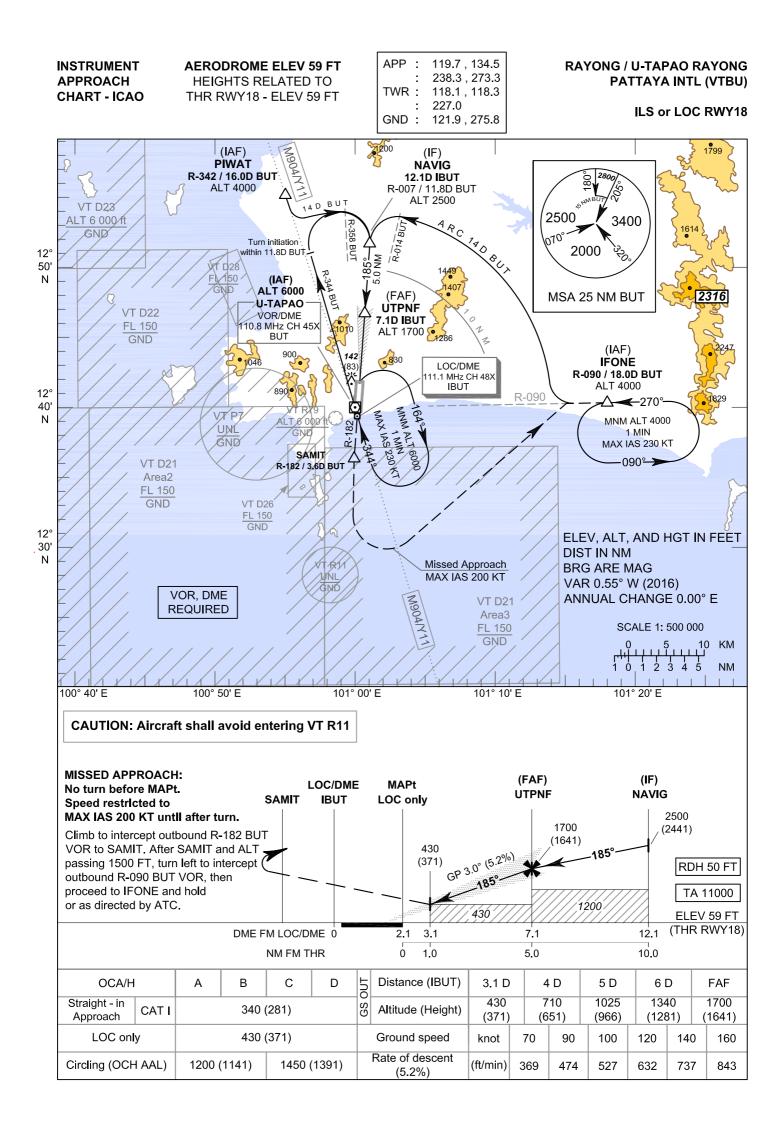
	Fix / Point	Coordinates				
PIWAT (IAF)	R-342 / 16.0D BUT	.342 / 16.0D BUT 12 55 16.58 N				
VITYA (IF)	R-008 / 11.8D BUT	12 51 42.99 N	101 01 30.24 E			
UTP18 (FAF)	R-008 / 6.8D BUT	12 46 43.34 N	101 00 52.49 E			
UTSDF (SDF)	R-008 / 4.9D BUT	12 44 49.70 N	101 00 38.17 E			
MAPt	1.8D BUT	12 41 45.04 N	101 00 14.93 E			
THR RWY18	-	12 41 44.26 N	101 00 22.66 E			
VOR (IAF)	BUT	12 40 00.02 N	101 00 01.71 E			
SAMIT	R-182 / 3.6D BUT	12 36 20.17 N	100 59 55.90 E			
IFONE (IAF)	R-090 / 18.0D BUT	12 40 11.24 N	101 18 26.44 E			



AERODROME ELEV 59 FT HEIGHTS RELATED TO THR RWY36 - ELEV 24 FT RAYONG / U-TAPAO RAYONG PATTAYA INTL (VTBU)

VOR RWY36

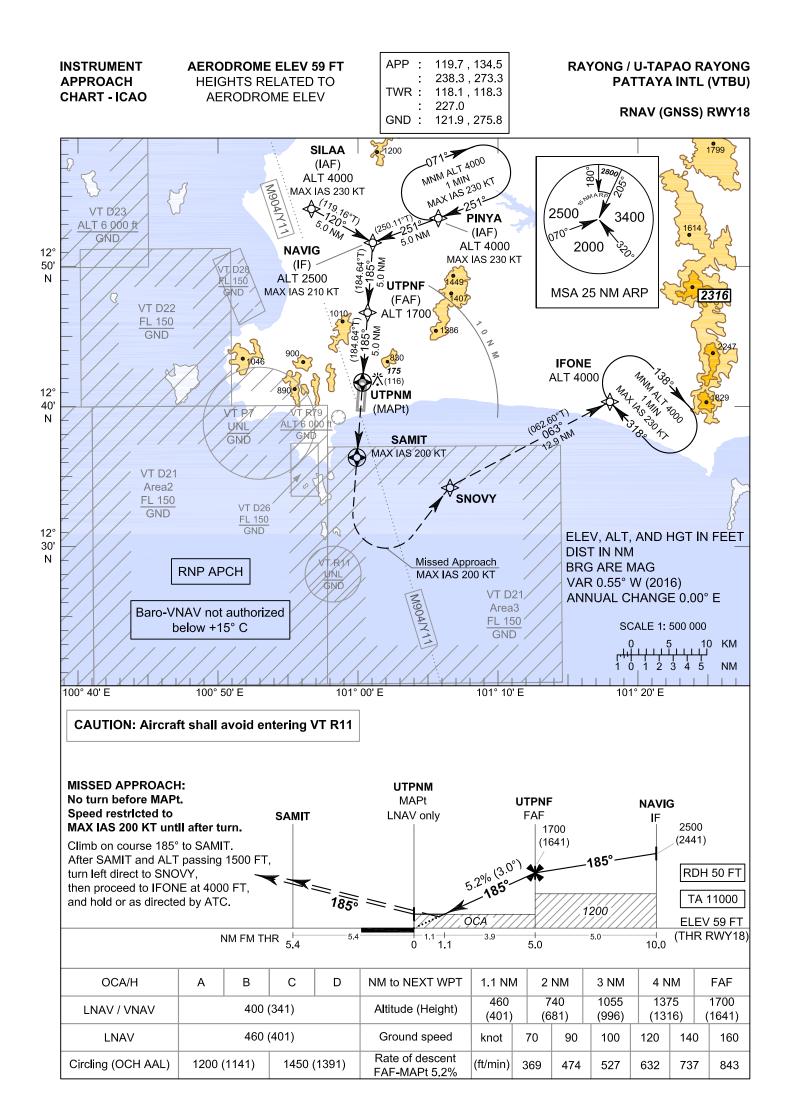
	Fix / Point	Coordinates				
NAVAA (IAF)	R-165 / 15.6D BUT	R-165 / 15.6D BUT 12 24 52.49 N				
BU036	R-165 / 11.6D BUT	12 28 44.64 N	101 03 14.18 E			
PAWIN (IF)	R-179 / 8.4D BUT	12 31 37.12 N	101 00 11.72 E			
UTP36 (FAF)	R-179 / 3.4D BUT	12 36 37.94 N	101 00 05.73 E			
MAPt	0.2D BUT	12 39 50.76 N	101 00 01.89 E			
THR RWY36	-	12 39 50.42 N	101 00 13.26 E			
VOR (IAF)	BUT	12 40 00.02 N	101 00 01.71 E			
COBAR (IAF)	R-055 / 15.3D BUT	12 48 53.69 N	101 12 49.13 E			
KUNTA	R-133 / 11.0D BUT	12 32 33.09 N	101 08 20.24 E			



AERODROME ELEV 59 FT HEIGHTS RELATED TO THR RWY18 - ELEV 59 FT RAYONG / U-TAPAO RAYONG PATTAYA INTL (VTBU)

ILS or LOC RWY18

	Fix / Point	Coordinates				
PIWAT (IAF)	R-342 / 16.0D BUT	12 55 16.58 N	100 54 56.50 E			
NAVIG (IF)	12.1D IBUT	12 51 44.95 N	101 01 12.29 E			
UTPNF (FAF)	7.1D IBUT	12 46 44.61 N	101 00 47.47 E			
MAPt (LOC only)	2.1D IBUT	12 41 44.26 N	101 00 22.66 E			
LOC / DME	IBUT	12 39 36.66 N	101 00 12.13 E			
VOR (IAF)	BUT	12 40 00.02 N	101 00 01.71 E			
SAMIT	R-182 / 3.6D BUT	12 36 20.17 N	100 59 55.90 E			
IFONE (IAF)	R-090 / 18.0D BUT	12 40 11.24 N	101 18 26.44 E			



INSTRUMENT APPROACH HEIGHTS RELATED TO AERODROME ELEV

RAYONG / U-TAPAO RAYONG PATTAYA INTL (VTBU)

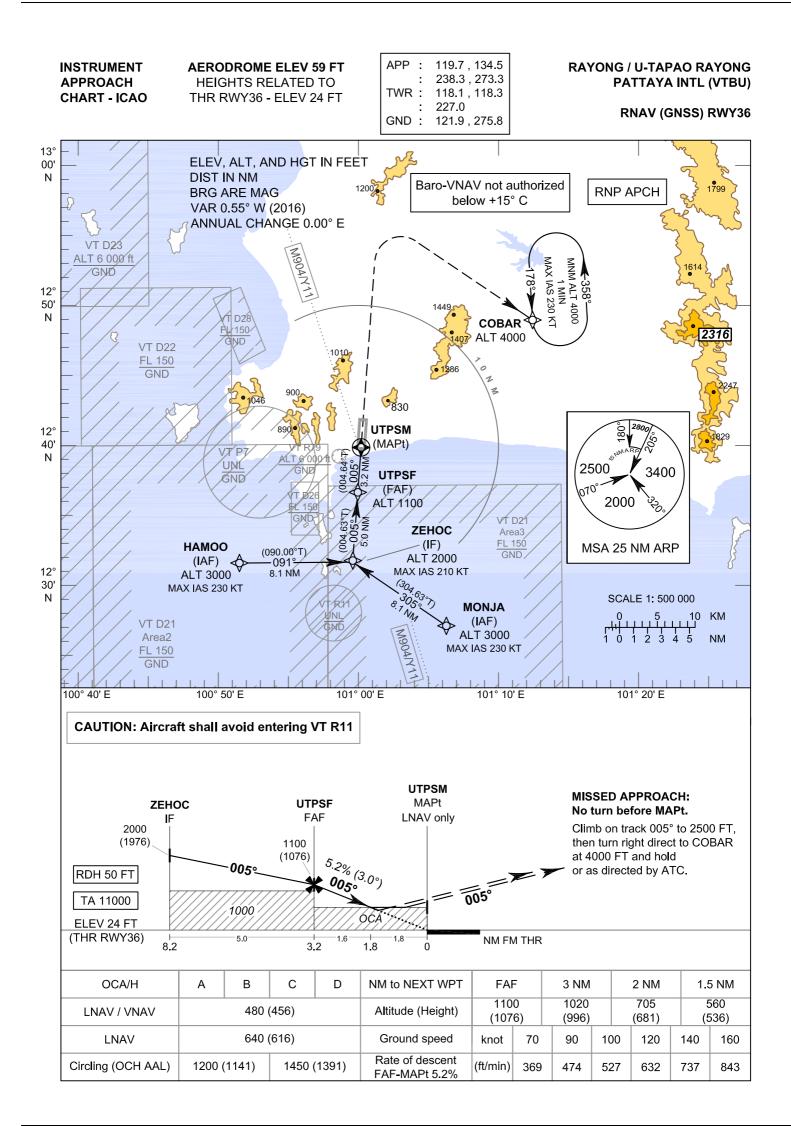
RNAV (GNSS) RWY18

TABULAR DESCRIPTION

Serial	Path	Marin sint Islandifian		Course	Magnetic	Distance	Turn	Altitude	Speed	VPA/	Navigation
Number	Descriptor	Waypoint Identifier	Flyover	° M (° T)	Variation	(NM)	Direction	(FT)	(KT)	тсн	Specification
010	IF	SILAA (IAF)	-	-	+0.55	-	-	@4000	-230	-	RNP APCH
020	TF	NAVIG (IF)	-	120°(119.16°)	+0.55	5.0	-	@2500	-210	-	RNP APCH
010	IF	PINYA (IAF)	-	-	+0.55	-	-	@4000	-230	-	RNP APCH
020	TF	NAVIG (IF)	-	251°(250.11°)	+0.55	5.0	-	@2500	-210	-	RNP APCH
010	IF	NAVIG (IF)	-	-	+0.55	-	-	@2500	-210	-	RNP APCH
020	TF	UTPNF (FAF)	-	185°(184.64°)	+0.55	5.0	-	@1700	-	-	RNP APCH
030	TF	UTPNM (MAPt)	Υ	185°(184.64°)	+0.55	5.0	-	@109	-	-3.0/50	RNP APCH
040	CF	SAMIT	Υ	185°(184.64°)	+0.55	5.4	-	-	-200	-	RNP APCH
050	FA	-	-	185°(184.64°)	+0.55	-	-	+1500	-200	-	RNP APCH
060	DF	SNOVY	-	-	+0.55	-	L	-	-	-	RNP APCH
070	TF	IFONE	-	063°(062.60°)	+0.55	12.9	-	+4000	-	-	RNP APCH
080	НМ	IFONE	Y	318°(317.38°)	+0.55	1 minute	R	+4000	- 230	_	RNP APCH

WAYPOINT LIST

RNAV (GNSS) RWY18							
Waypoint Identifier	Coordinates						
SILAA	12° 54' 11.47" N 100° 56' 44.52" E						
PINYA	12° 53' 27.22" N 101° 06' 00.62" E						
NAVIG	12° 51' 44.95" N 101° 01' 12.29" E						
UTPNF	12° 46' 44.61" N 101° 00' 47.47" E						
UTPNM (THR18)	12° 41' 44.26" N 101° 00' 22.66" E						
SAMIT	12° 36' 20.17" N 100° 59' 55.90" E						
SNOVY	12° 34' 12.28" N 101° 06' 41.89" E						
IFONE	12° 40' 11.24" N 101° 18' 26.44" E						



AERODROME ELEV 59 FT HEIGHTS RELATED TO THR RWY36 - ELEV 24 FT RAYONG / U-TAPAO RAYONG PATTAYA INTL (VTBU)

RNAV (GNSS) RWY36

TABULAR DESCRIPTION

Serial	Path	Marina int Islandifian	Fhrance	Course	Magnetic	Distance	Turn	Altitude	Speed	VPA/	Navigation
Number	Descriptor	Waypoint Identifier	Flyover	° M (° T)	Variation	(NM)	Direction	(FT)	(KT)	тсн	Specification
010	IF	HAMOO (IAF)	-	-	+0.55	-	-	@3000	-230	-	RNP APCH
020	TF	ZEHOC (IF)	-	091°(090.00°)	+0.55	8.1	-	@2000	-210	-	RNP APCH
010	IF	MONJA (IAF)	-	-	+0.55	-	-	@3000	-230	-	RNP APCH
020	TF	ZEHOC (IF)	-	305°(304.63°)	+0.55	8.1	-	@2000	-210	-	RNP APCH
010	IF	ZEHOC (IF)	-	-	+0.55	-	-	@2000	-210	-	RNP APCH
020	TF	UTPSF (FAF)	-	005°(004.63°)	+0.55	5.0	-	@1100	-	-	RNP APCH
030	TF	UTPSM (MAPt)	Υ	005°(004.64°)	+0.55	3.2	-	@74	-	-3.0/50	RNP APCH
050	CA	-	-	005°(004.64°)	+0.55	-	-	+2500	-	-	RNP APCH
060	DF	COBAR	-	-	+0.55	-	R	+4000	-	-	RNP APCH
080	НМ	COBAR	Υ	178°(176.97°)	+0.55	1 minute	L	+4000	- 230	-	RNP APCH

WAYPOINT LIST

RNAV (GNSS) RWY3	6
Waypoint Identifier	Coordinates
НАМОО	12° 31' 37.71" N 100° 51' 16.77" E
MONJA	12° 27' 00.89" N 101° 06' 20.46" E
ZEHOC	12° 31' 37.84" N 100° 59' 32.61" E
UTPSF	12° 36' 38.20" N 100° 59' 57.39" E
UTPSM (THR36)	12° 39' 50.42" N 101° 00' 13.26" E
COBAR	12° 48' 53.69" N 101° 12' 49.13" E