

ENR 3.3 AREA NAVIGATION (RNAV) ROUTES

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L301 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> PASTO ▲ <u>140005N 0993007E</u> TANEK ▲ <u>140306N 0985819E</u>	 <u>276°</u> <u>096°</u> 64.0 NM <u>276°</u> <u>096°</u> 31.0 NM	 <u>FL 460</u> <u>7 500 FT</u> Class A 8 000 FT	 ↑	 ↓ ↑	 Route segment between DWI and BKK available for overfly BKK (Bi-directional) and departing from VTBD or VTBS (Westbound).
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L507 (RNAV 2) [GNSS] <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E <u>IGONI</u> ▲ 142633N 0995430E <u>NUNLI</u> ▲ 145127N 0992304E <u>LUDVI</u> ▲ 152849N 0983530E	 <u>310°</u> <u>130°</u> 52.0 NM <u>310°</u> <u>130°</u> 39.0 NM <u>310°</u> <u>130°</u> 59.0 NM	 <u>FL 460</u> 9 500 FT Class A 10 000 FT <u>FL 460</u> <u>FL 145</u> Class A FL 150		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L515 (RNAV 2) [GNSS] IKULA ▲ <u>100007N 0972114E</u> MUDMA ▲ <u>090050N 0975115E</u> UPSAB ▲ <u>083348N 0980452E</u> PHUKET DVOR/DME (PUT) ▲ <u>080655N 0981823E</u>	 $\frac{154^\circ}{334^\circ}$ 66.0 NM $\frac{154^\circ}{334^\circ}$ 30.0 NM $\frac{154^\circ}{334^\circ}$ 30.0 NM	 $\frac{\text{FL 460}}{10\ 500\ \text{FT}}$ Class A 11 000 FT/FL 110 $\frac{\text{FL 460}}{6\ 500\ \text{FT}}$ Class A 7 000 FT		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L524 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> IBETO ▲ <u>141036N 0992946E</u> MIGAR ▲ <u>141823N 0985907E</u> NURDA ▲ <u>142451N 0983322E</u>	 286° 105° 66.0 NM 285° 105° 31.0 NM 285° 105° 26.0 NM	 FL 460 9 500 FT Class A 10 000 FT		 ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L645 (RNAV 2) [GNSS] PHUKET DVORDME (PUT) ▲ 080655N 0981823E UBHEN ▲ 080520N 0974812E SAPAM ▲ 080434N 0973300E	 268° 087° 30.0 NM 268° 088° 15.0 NM	 FL 460 6 500 FT Class A 7 000 FT	 	 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L759 (RNAV 2) [GNSS] PHUKET DVOR/DME (PUT) ▲ 080655N 0981823E SATVA ▲ 082902N 0975756E ANPAN ▲ 085116N 0973720E TAVUN ▲ 100000N 0963312E	 $\frac{318^\circ}{138^\circ}$ 30.0 NM $\frac{318^\circ}{138^\circ}$ 30.0 NM $\frac{318^\circ}{138^\circ}$ 93.0 NM	 $\frac{FL\ 460}{6\ 500\ FT}$ Class A 7 000 FT $\frac{FL\ 460}{10\ 500\ FT}$ Class A 11 000 FT/FL 110		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L877 (RNAV 2) [GNSS] MIGAR ▲ 141823N 0985907E PUMOR ▲ 141420N 0984348E	 256° 075° 15.0 NM	 FL 460 9 500 FT Class A 10 000 FT	 ↑	 ↑	 Available for aircraft destination VTBD or VTBS only
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L880 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 100354E</u> ANKOS ▲ <u>135300N 101274E</u> DOSBU ▲ <u>135240N 101500E</u> ANREN ▲ <u>135212N 102183E</u> OMURO ▲ <u>135143N 102455E</u>	 091° 271° 51.0 NM 091° 272° 22.0 NM 092° 272° 28.0 NM 092° 272° 27.0 NM 	 FL 460 10 500 FT Class A 11 000 FT FL 460 FL 145 Class A FL 150 	 	 ↓ 	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6
M502 (RNAV 2) [GNSS] <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E <u>BONVO</u> ▲ 134410N 0994607E <u>AKATO</u> ▲ 133716N 0991019E						Conditional Route (CDR) availability: CDR1 1. Weekdays, Monday to Friday 1500 -2300 UTC 2. From Friday 1500 UTC to Sunday 2300 UTC 3. Public Holidays CDR2 Not applicable Route segment between AKATO and BKK available for overfly BKK (Bi-directional) and departing from VTBD or VTBS (Westbound)
	$\frac{260^\circ}{079^\circ}$ 49.0 NM	$\frac{FL 460}{10\ 000\ FT}$ Class A 11 000 FT/FL 110			↓	
	$\frac{259^\circ}{079^\circ}$ 36.0 NM				↑	
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels 5		Remarks Controlling unit Frequency 6
		Lower limits or Airspace classification Minimum flight altitude 3		Odd	Even	
M626 (RNAV 2) [GNSS]						
▲ EKAVO 113737N 0993025E	153° 333°	FL 460 9 500 FT		↓		
▲ MENEX 110831N 0994543E	33.0 NM	Class A 10 000 FT				
▲ NONEL 105301N 0995337E	154° 334°					
▲ APUSA 100057N 1002007E	17.0 NM					
△ SORTO 095353N 1002342E	154° 334°					
▲ UPNEP 094213N 1002936E	58.0 NM					
▲ VALSI 093108N 1003518E	154° 334°					
▲ SUPIN 083435N 1010419E	8.0 NM					
▲ IKOGA 073935N 1013235E	154° 334°					
▲ KADAX 061602N 1021542E	13.0 NM					
	153° 333°					
	153° 333°					
	12.0 NM					
	63.0 NM					
	153° 333°					
	61.0 NM					
	153° 333°					
	94.0 NM					
				↑		Uni-directional northbound, portion between KADAX - IKOGA
						For continuation, see AIP Ma- laysia.
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels		Remarks Controlling unit Frequency 6
		Lower limits Airspace Classification 3		Odd	Even	
M633 (RNAV 2) [GNSS]						
TANEK						
▲ 140306N 0985819E	100° 281° 104.0 NM	FL 460 FL 255 Class A FL 260				
MUBUS						
▲ 134530N 1004342E	091° 271° 8.0 NM	FL 460 10 500 FT Class A				
UGIPA						
▲ 134524N 1005221E	091° 272° 56.0 NM	11 000 FT Class A				
OLTUM						
▲ 134439N 1014956E	092° 272° 23.0 NM	FL 460 FL 145 Class A				
DULEM						
▲ 134416N 1021400E	092° 272° 25.0 NM	FL 150 Class A				
TUPGO						
▲ 134349N 1023918E						
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M644 (RNAV 2) [GNSS] RAYONG DVOR/DME (RYN) ▲ <u>124648N 1014042E</u> ALUMO ▲ <u>104554N 1015123E</u> TONIK △ <u>091736N 1015907E</u> DUGON △ <u>080125N 1020549E</u> ABTOK ▲ <u>061818N 1021744E</u>	 176° 355° 121.0 NM 175° 355° 88.0 NM 175° 355° 76.0 NM 174° 354° 103.0 NM	 FL 460 FL 285 Class A FL 290		 ↓ ↑	 Uni-directional northbound route portion between TONIK - ABTOK
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M648 (RNAV 2) [GNSS] UDON DVOR/DME (UDN) ▲ 172304N 1024630E MUGNO ▲ 175107N 1025753E BOPNU ▲ 175826N 1030052E	 $\frac{022^\circ}{202^\circ}$ 30.0 NM $\frac{022^\circ}{202^\circ}$ 8.0 NM	 $\frac{FL\ 460}{6\ 500\ FT}$ Class A 7 000 FT		 ↑	 Uni-directional southbound Conditional Route (CDR) Availability: <u>CDR1</u> 1. Weekdays, Monday to Friday from 1700-2200 UTC 2. From Friday 1700 UTC to Sunday 2200 UTC 3. Public holidays <u>CDR2</u> Other periods, Availability shall be notified by Airspace use plan (AUP) published in www.thaicmac.aerothai.aero BOPNU (BKK-VTN FIR BDRY)
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M751 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> POLAK △ <u>132106N 1003454E</u> GUTSO ▲ <u>124820N 1003454E</u> REGOS ▲ <u>120007N 1003454E</u> IDAGA △ <u>110007N 1005348E</u> EMELA ▲ <u>101249N 1010729E</u> MUBAN △ <u>085441N 1012952E</u> TIKAL ▲ <u>080220N 1014448E</u> GOLUD ▲ <u>061706N 1021639E</u>	 182° — 002° 32.0 NM 181° — 001° 33.0 NM 181° — 001° 48.0 NM 163° — 343° 63.0 NM 164° — 344° 49.0 NM 164° — 344° 81.0 NM 164° — 344° 54.0 NM 163° — 343° 109.0 NM	 FL 460 — 6 500 FT Class A 7 000 FT		 ↓ ↑	 Uni-directional northbound route portion between GOLUD - MUBAN For continuation, see AIP Malaysia.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
<p>M757 (RNAV 2) [GNSS]</p> <p>BANGKOK DVOR/DME (BKK)</p> <p>▲ <u>135337N 1003546E</u></p> <p>KASNI</p> <p>▲ <u>130450N 1004042E</u></p> <p>ASEKU</p> <p>▲ <u>120306N 1003905E</u></p> <p>NULBO</p> <p>▲ <u>102919N 1003643E</u></p> <p>MABKO</p> <p>▲ <u>094809N 1003543E</u></p> <p>VALSI</p> <p>▲ <u>093108N 1003518E</u></p> <p>ROBDA</p> <p>▲ <u>092558N 1003511E</u></p> <p>LOSDA</p> <p>▲ <u>085356N 1003425E</u></p> <p>OBLEX</p> <p>▲ <u>072948N 1003228E</u></p> <p>KARMI</p> <p>▲ <u>062940N 1003121E</u></p>	<p>175° — 355°</p> <p>49.0 NM</p> <p>182° — 002°</p> <p>61.0 NM</p> <p>182° — 002°</p> <p>93.0 NM</p> <p>182° — 002°</p> <p>41.0 NM</p> <p>182° — 002°</p> <p>17.0 NM</p> <p>182° — 002°</p> <p>5.0 NM</p> <p>182° — 002°</p> <p>32.0 NM</p> <p>182° — 002°</p> <p>84.0 NM</p> <p>181° — 001°</p> <p>60.0 NM</p>	<p>FL 460 FL 155</p> <p>Class A FL 160</p> <p>FL 460 6 500 FT</p> <p>Class A 7 000 FT</p>		<p>↓</p>	<p>Uni-directional southbound route</p>
<p>For flight planning procedure, see ENR 1.10.</p>					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels 5		Remarks Controlling unit Frequency 6
				Odd	Even	
M769 (RNAV 2) [GNSS]						Uni-directional northbound route
BANGKOK DVOR/DME (BKK) ▲ 135337N 1003546E	189° 009°	FL 460 FL 155				
LEBIM ▲ 130515N 1002825E	49.0 NM 182° 002°	Class A FL 160				
SURMA ▲ 115122N 1002633E	74.0 NM 182° 002°					
GOKEX ▲ 111815N 1002544E	33.0 NM 182° 002°					
DONSI ▲ 100738N 1002401E	70.0 NM 182° 002°					
SORTO ▲ 095353N 1002342E	14.0 NM 182° 002°	FL 460 FL 125				
PINUN ▲ 092825N 1002306E	25.0 NM 182° 002°	Class A FL 130				
RIPMU ▲ 090852N 1002238E	19.0 NM 182° 002°					
DOXAS ▲ 084657N 1002208E	22.0 NM 182° 002°					
DANDO ▲ 073054N 1002024E	76.0 NM 187° 007°					
RIGTO ▲ 064228N 1001504E	48.0 NM				↑	

For flight planning procedure, see ENR 1.10.

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
N506 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> UGIPA ▲ <u>134524N 1005221E</u> GORSI ▲ <u>133055N 1012128E</u> GOMES ▲ <u>132406N 1013506E</u> BERLU ▲ <u>131350N 1015620E</u> BOKAK ▲ <u>125736N 1022947E</u>	 117° 298° 18.0 NM 118° 298° 32.0 NM 118° 298° 15.0 NM 117° 297° 23.0 NM 117° 297° 36.0 NM	 FL 460 7 500 FT Class A 8 000 FT Class A FL160	 	 ↓ 	 Uni-directional eastbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
N891 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> DOLNI ▲ <u>131740N 1011048E</u> RAYONG DVORDME (RYN) ▲ <u>124648N 1014042E</u> ANOBO △ <u>110323N 1021442E</u> BENSA ▲ <u>102631N 1022630E</u>	 $\frac{137^\circ}{317^\circ}$ 49.0 NM $\frac{137^\circ}{317^\circ}$ 42.0 NM $\frac{163^\circ}{343^\circ}$ 108.0 NM $\frac{163^\circ}{343^\circ}$ 38.0 NM	 $\frac{FL\ 460}{7\ 000\ FT}$ Class A 8 000 FT $\frac{FL\ 460}{FL\ 160}$ Class A FL 170		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
P627 (RNAV 2) [GNSS] <u>PHUKET DVOR/DME (PUT)</u> ▲ 080655N 0981823E <u>ANPUB</u> ▲ 075141N 0975216E <u>RUSET</u> ▲ 074616N 0974257E	 $\frac{240^\circ}{060^\circ}$ 30.0 NM $\frac{240^\circ}{060^\circ}$ 11.0 NM	 $\frac{\text{FL 460}}{6\ 500\ \text{FT}}$ Class A 7 000 FT		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
<p>P629 (RNAV 2) [GNSS]</p> <p>BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u></p> <p>MUBUS ▲ <u>134530N 1004342E</u></p> <p>DOLNI ▲ <u>131740N 1011048E</u></p> <p>NUGPA ▲ <u>130254N 1014959E</u></p> <p>OLDIR ▲ <u>125401N 1021325E</u></p> <p>VAPVU ▲ <u>124701N 1023149E</u></p>	<p>137° — 317°</p> <p>11.0 NM</p> <p>137° — 317°</p> <p>38.0 NM</p> <p>112° — 292°</p> <p>41.0 NM</p> <p>112° — 292°</p> <p>25.0 NM</p> <p>112° — 292°</p> <p>19.0 NM</p>	<p>FL 460 — 7 500 FT</p> <p>Class A</p> <p>8 000 FT</p> <p>FL 460 — FL 155</p> <p>Class A</p> <p>FL 160</p>		<p style="text-align: center;">↑</p>	<p>Uni-directional westbound route</p>
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
P646 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> TARED ▲ <u>142620N 0993129E</u> BETNO ▲ <u>150554N 0981231E</u>	 298° ----- 118° 70.0 NM 298° ----- 118° 86.0 NM	 FL 460 ----- 9 500 FT Class A 10 000 FT	 	 	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y1 (RNAV 2) [GNSS] UDON DVOR/DME (UDN) ▲ <u>172304N 1024630E</u> TERCO ▲ <u>165550N 1023308E</u> UBL0D ▲ <u>143715N 1012612E</u> PIPOB ▲ <u>142236N 1011914E</u>	 <div style="text-align: center;"> $\frac{206^\circ}{026^\circ}$ 30.0 NM </div> <div style="text-align: center;"> $\frac{206^\circ}{026^\circ}$ 152.0 NM </div> <div style="text-align: center;"> $\frac{206^\circ}{026^\circ}$ 16.0 NM </div>	 <div style="text-align: center;"> <u>FL 460</u> 12 000 FT Class A 13 000 FT </div> <div style="text-align: center;"> <u>FL 460</u> 6 500 FT Class A 7 000 FT </div>		 <div style="text-align: center;"> ↓ </div>	 Uni-directional southbound route Conditional Route (CDR) availability: CDR1 1. Weekdays, Monday to Friday 1000 - 2300 UTC 2. From Friday 1000 UTC to Sunday 2300 UTC 3. Public Holidays CDR2 Other Periods, Availability shall be notified by Airspace use plan (AUP) published in www.thaicmac.aerothai.aero
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6
Y2 (RNAV 2) [GNSS] KHON KAEN DVOR/DME (KKN) ▲ <u>162815N 1024716E</u> NEMTE ▲ <u>160345N 1022913E</u> UBLOD ▲ <u>143715N 1012612E</u> PIPOB ▲ <u>142236N 1011914E</u>					↓	Uni-directional southbound route, Conditional Route (CDR) availability: CDR1 1. Weekdays, Monday to Friday 1000-2300 UTC 2. From Friday 1000 UTC to Sun- day 2300 UTC 3. Public Holidays CDR2 Other Periods, Availability shall be notified by Airspace use plan (AUP) published in www.thaicmac.aerothai.aero
	$\frac{216^\circ}{036^\circ}$ 30.0 NM	FL 460 12 000 FT/FL 120 Class A 13 000 FT/FL 130				
	$\frac{216^\circ}{036^\circ}$ 105.0 NM					
	$\frac{206^\circ}{026^\circ}$ 16.0 NM	FL 460 6 500 FT Class A 7 000 FT				
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y3 (RNAV 2) [GNSS] MENEX ▲ 110831N 0994543E DORNA ▲ 092459N 0994614E TEDOS ▲ 084834N 0990507E MONBU ▲ 082659N 0984056E PHUKET DVOR/DME (PUT) ▲ 080655N 0981823E	 180° 000° 103.0 NM 229° 049° 55.0 NM 229° 049° 32.0 NM 229° 049° 30.0 NM 	 FL 460 7 000 FT Class A 8 000 FT 	 	 ↓ 	Uni-directional southbound route Conditional Route (CDR) availability: CDR1 Not applicable CDR2 1. Available when VTD58 is activated 2. Availability shall be notified by NOTAM or Airspace use plan (AUP) published in www.thaicmac.aerothai.aero Aircraft shall keep within the lateral limit 5 NM either side of the route and close to the centreline as much as possible to avoid entering VTD58
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y4 (RNAV 2) [GNSS] NONEL ▲ 105301N 0995337E SAMUI DVOR/DME (SMU) ▲ 093249N 1000342E MESEM ▲ 090719N 0994816E RECNO ▲ 083425N 0992825E BITEN ▲ 082659N 0992029E OSPEX ▲ 082015N 0991319E KRABI DVOR/DME (KBI) ▲ 080627N 0985839E	173° 353° 80.0 NM 211° 031° 30.0 NM 211° 031° 38.0 NM 227° 047° 11.0 NM 227° 047° 10.0 NM 227° 047° 20.0 NM	FL 460 7 000 FT Class A 8 000 FT		↑	Uni-directional northbound route Conditional Route (CDR) availability: CDR1 Not applicable CDR2 1. Available when VTD58 is activated 2. Availability shall be notified by NOTAM or Airspace use plan (AUP) published in www.thaicmac.aerothai.aero Aircraft shall keep within the lateral limit 5 NM either side of the route and close to the centreline as much as possible to avoid entering VTD58
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6
Y5 (RNAV 2) [GNSS]						
▲ PHUKET DVOR/DME (PUT) 080655N 0981823E	010° 190° 30.0 NM	FL 460 6 500 FT Class A 7 000 FT		↓		Uni-directional northbound route
▲ IGEVI 083640N 0982320E	024° 204° 31.0 NM					Conditional Route (CDR) availability:
△ ANDAX 090441N 0983545E	024° 204° 32.0 NM	FL 460 12 500 FT/FL 125 Class A				CDR1 1. Weekdays, Monday to Friday 1700 - 2200 UTC 2. From Friday 1700 UTC to Sunday 2200 UTC 3. Public Holidays
▲ NOMEK 093404N 0984835E	026° 206° 76.0 NM	13 000 FT/FL 130				CDR2 Other Periods, Availability shall be notified by NOTAM or Airspace use plan (AUP) published in www.thaicmac.aerothai.aero
▲ CHUM PHON DVOR/DME (CPN) 104240N 0992156E	043° 223° 35.0 NM					
▲ MENEX 110831N 0994543E	044° 224° 28.0 NM					
▲ EGUBO 112838N 1000450E	044° 224° 14.0 NM					
▲ UPVIL 113836N 1001421E	044° 224° 18.0 NM					
▲ SURMA 115122N 1002633E						
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6	
Y6 (RNAV 2) [GNSS]							
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	337° 157° 51.0 NM	FL 460 12 500 FT/FL 125 Class A			↓ Uni-directional northbound route		
▲ <u>TANGO</u> 144022N 1001433E	343° 163° 21.0 NM	13 000 FT/FL 130					
△ <u>DUKEN</u> 150006N 1000808E	343° 163° 84.0 NM	FL 460 FL 245 Class A					
▲ <u>BORNO</u> 162057N 0994139E	343° 163° 17.0 NM	FL 250					
△ <u>SANAL</u> 163705N 0993619E	343° 163° 63.0 NM	FL 460 12 500 FT/FL 125 Class A					
△ <u>RINKA</u> 173746N 0991609E	343° 163° 32.0 NM	FL 460 6 500 FT Class A					
▲ <u>MARNI</u> 180836N 0990549E	349° 169° 38.0 NM	7 000 FT					
▲ <u>CHIANG MAI DVOR/DME (CMA)</u> 184558N 0985740E							
For flight planning procedure, see ENR 1.10.							


Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y7 (RNAV 2) [GNSS] PANTA ▲ 181351N 0991917E KEXIL △ 174204N 0992954E PAKMO ▲ 162013N 0995656E TAKHLI NDB (TL) ▲ 151633N 1001751E	 163° 343° 33.0 NM 163° 343° 86.0 NM 163° 343° 67.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 12 500 FT/FL 125 Class A 13 000 FT/FL 130	 	 ↓	 Uni-directional southbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6
		Lower limits or Airspace classification Minimum flight altitude 3				
Y8 (RNAV 2) [GNSS]						Uni-directional southbound route
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	197° 017° 44.0 NM	FL 460 12 500 FT/FL 125 Class A			↓	
▲ <u>MOTNA</u> 131110N 1002306E	226° 046° 16.0 NM	13 000 FT/FL 130				
▲ <u>SABIS</u> 125959N 1001125E	226° 046° 35.0 NM					
▲ <u>VANKO</u> 123511N 0994538E	180° 000° 51.0 NM					
▲ <u>BUXEL</u> 114342N 0994540E	180° 000° 35.0 NM					
▲ <u>MENEX</u> 110831N 0994543E	198° 018° 101.0 NM	FL 460 7 500 FT Class A				
▲ <u>IKERA</u> 093146N 0991532E	198° 018° 25.0 NM	8 000 FT				
▲ <u>SURAT THANI DVOR/DME (STN)</u> 090746N 0990805E	220° 040° 25.0 NM	FL 460 6 500 FT Class A				Northbound direction between PUT and STN is available for flight departing VTSP and arriving VTSB only
▲ <u>LAMUL</u> 084818N 0985208E	219° 039° 23.0 NM	7 000 FT				
▲ <u>SAVSA</u> 083016N 0983729E	220° 040° 30.0 NM					
▲ <u>PHUKET DVOR/DME (PUT)</u> 080655N 0981823E						

For flight planning procedure, see ENR 1.10.

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y9 (RNAV 2) [GNSS] DANDO ▲ <u>073054N 1002024E</u> HAT YAI DVOR/DME (HTY) ▲ <u>065603N 1002316E</u>	 $\frac{176^\circ}{356^\circ}$ 35.0 NM	 $\frac{FL\ 460}{6\ 500\ FT}$ Class A 7 000 FT	 	 ↑	Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y10 (RNAV 2) [GNSS] OBLEX ▲ 072948N 1003228E HAT YAI DVOR/DME (HTY) ▲ 065603N 1002316E	 196° 015° 35.0 NM	 FL 460 6 500 FT Class A 7 000 FT		 ↓	 Uni-directional southbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y12 (RNAV 2) [GNSS] DOLNI ▲ 131740N 1011048E ALEMI ▲ 123626N 1012600E ALUMO ▲ 104554N 1015123E	 $\frac{161^\circ}{341^\circ}$ 44.0 NM $\frac{168^\circ}{348^\circ}$ 113.0 NM	 $\frac{FL\ 460}{FL\ 155}$ Class A FL 160		 	Uni-directional northbound route When VTR13 is activated, Y12 is not available for flight planning.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6
		Lower limits or Airspace classification Minimum flight altitude 3				
Y13 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u>	<u>056°</u> 236°	<u>FL 460</u> 6 500 FT				Uni-directional westbound route
PIPOB ▲ <u>142236N 1011914E</u>	51.0 NM <u>073°</u> 253°	Class A 7 000 FT				Available for aircraft with VTBS as destination only.
RUKSA ▲ <u>143351N 1015512E</u>	37.0 NM <u>073°</u> 253°	<u>FL 460</u> FL 205				
PAKRI ▲ <u>145202N 1025409E</u>	60.0 NM <u>072°</u> 252°	Class A FL 210				
GRASO ▲ <u>150917N 1034714E</u>	54.0 NM				↑	
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y14 (RNAV 2) [GNSS] SELKA ▲ 142020N 1015311E KHORAT DVOR/DME (KRT) ▲ 145502N 1020823E	 024° 204° 38.0 NM	 FL 460 FL 205 Class A FL 210		 ↓	 Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	<u>Upper limits</u> <u>Lower limits</u> or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y15 (RNAV 2) [GNSS] SANOT △ 145134N 1032548E GRASO ▲ 150917N 1034714E GUROK ▲ 160329N 1041106E	 <u>050°</u> 230° 27.0 NM <u>024°</u> 204° 59.0 NM	 <u>FL 460</u> FL 205 Class A FL 210		 ↓ 	 Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y16 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> UPKUP ▲ <u>140353N 1012655E</u> LIPLI ▲ <u>141028N 1015756E</u> XIKMA ▲ <u>142236N 1023626E</u> PEKBA ▲ <u>144808N 1034733E</u> BUTRA ▲ <u>152506N 1053546E</u>	 079° — 259° 51.0 NM 078° — 258° 31.0 NM 073° — 253° 39.0 NM 070° — 251° 73.0 NM 071° — 252° 111.0 NM	 FL 460 — 7 500 FT Class A 8 000 FT FL 460 — FL 205 Class A FL 210		 ↓	 Uni-directional eastbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y17 (RNAV 2) [GNSS] <u>SAMUI DVORDME (SMU)</u> ▲ 093249N 1000342E <u>OLBAG</u> ▲ 095849N 1001852E <u>APUSA</u> △ 100057N 1002007E <u>DONSI</u> ▲ 100738N 1002401E	 <u>030°</u> <u>210°</u> 30.0 NM <u>030°</u> <u>210°</u> 2.0 NM <u>031°</u> <u>211°</u> 8.0 NM	 <u>FL 460</u> 4 500 FT Class A 5 000 FT		 ↓	Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y18 (RNAV 2) [GNSS] <u>HAT YAI DVOR/DME (HTY)</u> ▲ 065603N 1002316E <u>TONUV</u> ▲ 062319N 1011127E <u>PETAC</u> ▲ 061740N 1011945E <u>BETONG DVOR/DME (BET)</u> ▲ 054708N 1010839E	 124° 304° 58.0 NM 124° 304° 10.0 NM 200° 020° 32.0 NM	 FL 460 6 500 FT Class A 7 000 FT	 	 ↓ ↑	Conditional Route (CDR) availability; CDR1 1. Weekdays, Monday to Friday 1100-2300UTC 2. From Friday 1100 UTC to Sunday 2300 UTC 3. Public Holidays CDR2 Other period, Availability shall be notified by NOTAM or Airspace use plan (AUP) in www.thaicmac.aerothai.aero

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y19 (RNAV 2) [GNSS] PATTANI NDB (PT) ▲ 064718N 1010853E LERNI ▲ 062706N 1011618E PETAC ▲ 061740N 1011945E BETONG DVOR/DME (BET) ▲ 054708N 1010839E	 160° 340° 21.0 NM 160° 340° 10.0 NM 200° 020° 32.0 NM	 FL 460 6 500 FT Class A 7 000 FT	 	 ↓ ↑	Conditional Route (CDR)availability; CDR1 1. Weekdays, Monday to Friday 1100-2300 UTC 2. From Friday 1100 UTC to Sunday 2300 UTC 3. Public Holidays CDR2 Other period, Availability shall be notified by NOTAM or Airspace use plan (AUP) in www.thaicmac.aerothai.aero

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y20 (RNAV 2) [GNSS]					
BANGKOK DVOR/DME (BKK)					
▲ <u>135337N 1003546E</u>	$\frac{044^\circ}{224^\circ}$	$\frac{\text{FL 460}}{6\ 500\ \text{FT}}$		↓	
▲ <u>MALKI</u> <u>143111N 1011153E</u>	51.0 NM	Class A 7 000 FT			
▲ <u>UBLOD</u> <u>143715N 1012612E</u>	$\frac{067^\circ}{247^\circ}$	$\frac{\text{FL 460}}{12\ 500\ \text{FT} / \text{FL 125}}$			
▲ <u>KHORAT DVOR/DME (KRT)</u> <u>145502N 1020823E</u>	45.0 NM	Class A 13 000 FT / FL 130			
▲ <u>RAMEI</u> <u>150240N 1030040E</u>	$\frac{082^\circ}{262^\circ}$	$\frac{\text{FL 460}}{6\ 500\ \text{FT}}$			
▲ <u>RAMBU</u> <u>150554N 1032319E</u>	22.0 NM	Class A 7 000 FT			
▲ <u>GRASO</u> <u>150917N 1034714E</u>	$\frac{082^\circ}{262^\circ}$				
▲ <u>UBON DVOR/DME (UBL)</u> <u>151443N 1045157E</u>	23.0 NM			↑	
▲ <u>UBON DVOR/DME (UBL)</u> <u>151443N 1045157E</u>	$\frac{086^\circ}{266^\circ}$				
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y21 (RNAV 2) [GNSS] UDON DVOR/DME (UDN) ▲ 172304N 1024630E POVEX ▲ 165905N 1030530E DOTUS ▲ 163103N 1032732E ROI-ET DVORDME (ROT) ▲ 160701N 1034619E ENTEK ▲ 154755N 1041024E UBON DVOR/DME (UBL) ▲ 151443N 1045157E	 $\frac{144^\circ}{324^\circ}$ 30.0 NM $\frac{144^\circ}{324^\circ}$ 35.0 NM $\frac{144^\circ}{324^\circ}$ 30.0 NM $\frac{130^\circ}{310^\circ}$ 30.0 NM $\frac{130^\circ}{310^\circ}$ 52.0 NM	 FL 460 6 500 FT Class A 7 000 FT		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y23 (RNAV 2) [GNSS] KHORAT DVOR/DME (KRT) ▲ <u>145502N 1020823E</u> EMRUT ▲ <u>160020N 1023533E</u> KHON KAEN DVOR/DME (KKN) ▲ <u>162815N 1024716E</u> AKRET ▲ <u>164016N 1030856E</u> SAKON NAKHON DVOR/DME (SKN) ▲ <u>171251N 1040812E</u> NAKHON PHANOM DVOR/DME (NKP) ▲ <u>172318N 1043818E</u>	 023° 203° 70.0 NM 023° 203° 30.0 NM 061° 241° 24.0 NM 061° 241° 65.0 NM 071° 251° 31.0 NM	 FL 460 6 500 FT Class A 7 000 FT	 	 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST(COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y24 (RNAV 2) [GNSS] IKOGA ▲ <u>073935N 1013235E</u> PASVA ▲ <u>061529N 1020431E</u>	 160° 340° 90 NM	 FL 460 FL 245 FL 250		 ↓	Uni-directional southbound route
Y25 (RNAV 2) [GNSS] TONIK ▲ <u>091736N 1015907E</u> PASVA ▲ <u>061529N 1020431E</u>	 179° 359° 181 NM	 FL 460 FL 245 FL 250		 ↓	Uni-directional southbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y93 (RNAV 2) [GNSS] ▲ AKVUG 090349N 0992219E △ OTGOL 091306N 0993248E ▲ DORNA 092459N 0994614E ▲ SAMUI DVOR/DME (SMU) 093249N 1000342E	 049° 229° 14.0 NM 049° 229° 18.0 NM 066° 246° 19.0 NM	 FL 460 7 500 FT Class A 8 000 FT FL 460 4 500 FT Class A 5 000 FT		↓	Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels		Remarks Controlling unit Frequency 6
		Lower limits		Odd	Even	
		Airspace Classification				
		Minimum flight altitude				
Y95 (RNAV 2) [GNSS]						
<u>SAMUI DVOR/DME (SMU)</u> ▲ 093249N 1000342E	142° 322°	FL 460 4 500 FT		↓		
<u>RUMVA</u> ▲ 091717N 1001600E	20.0 NM 142° 322°	Class A 5 000 FT				
<u>PAGLU</u> △ 091549N 1001709E	2.0 NM 142° 322°	FL 460 6 500 FT				
<u>RIPMU</u> ▲ 090852N 1002238E	9.0 NM 142° 322°	Class A 7 000 FT				
<u>APOBI</u> ▲ 090147N 1002814E	9.0 NM 142° 322°					
<u>LOSDA</u> ▲ 085356N 1003425E	10.0 NM 142° 322°					
<u>IDRUK</u> ▲ 082724N 1005513E	34.0 NM 142° 322°	FL 460 9 500 FT				
<u>IKOGA</u> ▲ 073935N 1013235E	60.0 NM 142° 322°	Class A 10 000 FT			↑	
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y96 (RNAV 2) [GNSS] GOKEX ▲ 111815N 1002544E OLSEL ▲ 113411N 1001649E UPVIL ▲ 113836N 1001421E EMTIX ▲ 114931N 1000814E	 $\frac{332^\circ}{152^\circ}$ 18.0 NM $\frac{332^\circ}{152^\circ}$ 5.0 NM $\frac{332^\circ}{152^\circ}$ 12.0 NM	 $\frac{\text{FL 460}}{7\ 500\ \text{FT}}$ Class A 8 000 FT		 ↓	Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y98 (RNAV 2) [GNSS] ▲ <u>NONEL</u> 105301N 0995337E ▲ <u>OLSEL</u> 113411N 1001649E ▲ <u>SURMA</u> 115122N 1002633E ▲ <u>LEBIM</u> 130515N 1002825E ▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	 <u>030°</u> 210° 47.0 NM <u>030°</u> 210° 20.0 NM <u>002°</u> 182° 74.0 NM <u>009°</u> 189° 49.0 NM 	 <u>FL 460</u> 7 500 FT Class A 8 000 FT 	 	 ↓ 	 Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y99 (RNAV 2) [GNSS] PHUKET DVOR/DME (PUT) ▲ <u>080655N 0981823E</u> EMRIT ▲ <u>080621N 0984840E</u> KRABI DVORDME (KBI) ▲ <u>080627N 0985839E</u> OSPEX ▲ <u>082015N 0991319E</u> BITEN ▲ <u>082659N 0992029E</u> EMVEL ▲ <u>084438N 0992122E</u> AKVUG ▲ <u>090349N 0992219E</u> VEGNA ▲ <u>091427N 0992251E</u> NIXET ▲ <u>092517N 0992613E</u> NONEL ▲ <u>105301N 0995337E</u> EGUBO ▲ <u>112838N 1000450E</u> EMTIX ▲ <u>114931N 1000814E</u> HOTEL ▲ <u>130006N 1001948E</u> MOTNA ▲ <u>131110N 1002306E</u> BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u>	 092° 272° 30.0 NM 090° 270° 10.0 NM 047° 227° 20.0 NM 047° 227° 10.0 NM 003° 183° 18.0 NM 003° 183° 19.0 NM 003° 183° 11.0 NM 018° 198° 11.0 NM 018° 198° 91.0 NM 018° 198° 37.0 NM 010° 190° 21.0 NM 010° 190° 71.0 NM 017° 197° 12.0 NM 017° 197° 44.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 7 500 FT Class A 8 000 FT		 ↓	 Uni-directional northbound route
For flight planning procedure, see ENR 1.10.					

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