

ENR 3. ATS ROUTES

ENR 3.1 LOWER AND UPPER ATS ROUTES

Route designator (RNP type) Name of significant points Coordinates  1	Track MAG (GEO) VOR RDL DIST (COP)  2	Upper limits <u>Lower limits</u> or Airspace classification Minimum flight altitude  3	Lateral limits NM  4	Direction of cruising levels  5		Remarks Controlling unit Frequency  6
				Odd	Even	
<b>A1</b>						
▲ BANGKOK DVOR/DME (BKK) 135337N 1003546E	<u>071°</u> 251°	<u>FL 460</u> 7 500 FT	10	↓		Longitudinal separation between aircraft 10 min.  One way system will be applied for a portion between BKK DVOR/DME and UBL DVOR/DME as follows:  - ATS route A1 will apply for eastbound traffic only  - Westbound traffic shall filed flight plan via W1 after UBL  - The available for westbound traffic on A1 or direct route will be subject to prior approval from ATC
▲ ROBKA 141043N 1012508E	51.0 NM	Class A	8 000 FT			
▲ SELKA 142020N 1015311E	<u>071°</u> 251°	29.0 NM				
▲ TOPER 143808N 1024538E	<u>071°</u> 251°	54.0 NM				
△ SANOT 145134N 1032548E	<u>075°</u> 255°	41.0 NM				
▲ PASAT 145727N 1034726E	<u>075°</u> 255°	22.0 NM				
▲ UBON DVOR/DME (UBL) 151443N 1045157E	<u>077°</u> 257°	<u>FL 460</u> 9 500 FT				
▲ BUTRA 152506N 1053546E	44.0 NM	Class A 10 000 FT				
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST (COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>A202</b>  <u>RAMEI</u> ▲ 150240N 1030040E  <u>GUROK</u> ▲ 160329N 1041106E  <u>OKENA</u> ▲ 161608N 1042533E  <u>SAVANNAKHET DVOR/DME (SAV)</u> ▲ 163342N 1044556E	  049° 229°  91.0 NM  049° 229°  19.0 NM  048° 228°  26.0 NM	  <u>FL 460</u> 12 500 FT/FL 125  Class A  13 000 FT/FL 125  <u>FL 460</u> <u>6 500 FT</u>  Class A 7 000 FT	  (*)          	  ↓          ↑	  10 min longitudinal separation between aircraft applying Mach Number Technique.  (*) For width of airways, see ENR 2.1-1          For continuation, see AIP Lao People's Democratic Republic.
For flight planning procedure, see ENR 1.10.					

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<b>A334</b> HAT YAI DVOR/DME (HTY) ▲ 065603N 1002316E  PASVA ▲ 061529N 1020431E	112° 292° 108.0 NM	FL 460 9 500 FT Class A 10 000 FT	20	↓    ↑	10 min longitudinal separation between RNAV equipped aircraft apply Mach Number Technique.  15 min longitudinal separation between other aircraft.  For continuation, see AIP Malay- sia.
For flight planning procedure, see ENR 1.10.					

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<b>A340</b> <u>PHNOM PENH VOR/DME (PNH)</u> ▲ 113238N 1045038E  <u>BISOR</u> ▲ 122107N 1024647E  <u>RAYONG DVOR/DME (RYN)</u> ▲ 124648N 1014042E	  291° 111° 130.0 NM  292° 111° 70.0 NM	  FL 460 FL 165 Class A FL 170	  20	  ↓  ↑	For continuation, see AIP King- dom of Cambodia.  Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

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<b>A457</b>  <u>HAT YAI DVOR/DME (HTY)</u> ▲ 065603N 1002316E   <u>TAMOS</u> ▲ 063208N 1002407E	  178° <hr/> 358°  24.0 NM	  FL 460 <hr/> 9 500 FT  Class A 10 000 FT	  20	  ↓  ↑	Longitudinal separation between aircraft 15 min.
For flight planning procedure, see ENR 1.10.					

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<b>A464</b>					
CHIANG MAI DVOR/DME (CMA) ▲ 184558N 0985740E	163° 343° 38.0 NM	FL 460 6 500 FT Class A 7 000 FT	20	↓	
ENBAT ▲ 180941N 0991004E	163° 343° 42.0 NM				
TOPAS △ 172916N 0992358E	163° 343° 71.0 NM				
BEKOD ▲ 162117N 0994636E	163° 343° 91.0 NM				
SEMBO ▲ 145359N 1001548E	163° 343° 63.0 NM				
BANGKOK DVOR/DME (BKK) ▲ 135337N 1003546E	182° 002° 32.0 NM				
POLAK △ 132106N 1003454E	181° 001° 33.0 NM				
GUTSO ▲ 124820N 1003454E	181° 001° 48.0 NM				
REGOS ▲ 120007N 1003454E	182° 002° 60.0 NM				
DIRAX △ 110007N 1003248E	183° 003° 40.0 NM	FL 460 3 500 FT Class A 4 000 FT			
TUSPU ▲ 101948N 1003108E	183° 003° 37.0 NM				
UPNEP ▲ 094213N 1002936E	182° 002° 40.0 NM				
APOBI ▲ 090147N 1002814E	182° 002° 12.0 NM				
GUPMO ▲ 085012N 1002750E	182° 002° 46.0 NM				
RELIP ▲ 080432N 1002619E	183° 003° 68.0 NM				
HAT YAI DVOR/DME (HTY) ▲ 065603N 1002316E	163° 343° 27.0 NM	FL 460 8 500 FT Class A 9 000 FT		↑	
KARMI ▲ 062940N 1003121E					

For flight planning procedure, see ENR 1.10.

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<b>A581</b>  <u>BOMAS</u> ▲ 172305N 0980549E  <u>TATEL</u> ▲ 172905N 0984549E  <u>GOGOP</u> ▲ 180813N 0985150E  <u>CHIANG MAI DVOR/DME (CMA)</u> ▲ 184558N 0985740E  <u>ADLUS</u> ▲ 190610N 0991320E  <u>CHIANG RAI DVOR/DME (CTR)</u> ▲ 195654N 0995300E  <u>PONUK</u> ▲ 201858N 1002306E	  081° 261° 39.0 NM  008° 188° 39.0 NM  008° 188° 38.0 NM  036° 216° 25.0 NM  036° 216° 63.0 NM  052° 232° 36.0 NM   	  FL 460 10 500 FT Class A 11 000 FT/FL 110  FL 350 7 500 FT Class A 8 000 FT  FL 460 6 500 FT Class A 7 000 FT	  10          	  ↓          ↑	  Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

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<b>B202</b> UBON DVOR/DME (UBL) ▲ 151443N 1045157E  PAKSE VOR/DME (PAK) ▲ 151148N 1054417E	 093° 273° 51.0 NM	 FL 460 FL 260 Class A FL 270	 (*)	 ↓   ↑	 Longitudinal separation between aircraft 15 min. (*) For width of airways, see ENR 2.1-1.  For continuation, see AIP Lao Peo- ple's Democratic Republic.
For flight planning procedure, see ENR 1.10.					



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<b>B204</b>  GOMES ▲ 132406N 1013506E  AGEDO ▲ 132419N 1022139E	  090° 270° 45.0 NM	  FL 460 FL 135 Class A FL 140	  (*)	  ↓	  Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

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<b>B205</b> RAYONG DVOR/DME (RYN) ▲ 124648N 1014042E  BOKAK ▲ 125736N 1022947E	 077° 257° 49.0 NM	 FL 460 FL 155 Class A FL 160	 (*)	 ↓   ↑	 Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

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<b>B218</b>  VIENTIANE DVOR/DME (VTN) ▲ 180037N 1023226E  LOEI DVOR/DME (LOY) ▲ 172649N 1014323E  CHUM PHAE DVOR/DME (CMP) ▲ 163811N 1015905E	  234° 054° 57.0 NM  163° 343° 51.0 NM	  FL 460 3 500 FT Class A 4 000 FT  FL 460 6 500 FT Class A 7 000 FT	  20	  ↓  ↑ ↓  ↑	For continuation, see AIP Lao People's Democratic Republic.  Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

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<b>B346</b> <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E  <u>NOBER</u> ▲ 151636N 1004006E  <u>PHETCHABUN DVOR/DME (PCB)</u> ▲ 164034N 1011148E  <u>YAKUA</u> ▲ 174415N 1013052E	 003° 183° 83.0 NM  020° 200° 89.0 NM  016° 196° 66.0 NM	 FL 460 10 000 FT Class A  11 000 FT/FL 110	 20	 ↓         ↑	Longitudinal separation between aircraft 15 min.
For flight planning procedure, see ENR 1.10.					

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<b>B460</b>  ▲ <u>KHORAT DVOR/DME (KRT)</u> 145502N 1020823E  ▲ <u>ROI-ET DVOR/DME (ROT)</u> 160701N 1034619E  ▲ <u>SAVANNAKHET DVOR/DME (SAV)</u> 163342N 1044556E	  053° 233° 119.0 NM  065° 245° 63.0 NM  	  FL 460 6 500 FT Class A 7 000 FT  	  20  	  ↓    ↑	  Longitudinal separation between aircraft 10 min.    For continuation, see AIP Lao People's Democratic Republic.
For flight planning procedure, see ENR 1.10.					

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<b>B579</b> <u>PHUKET DVOR/DME (PUT)</u> ▲ 080655N 0981823E  <u>REBED</u> ▲ 074332N 0983736E  <u>NUTGU</u> ▲ 072803N 0985020E  <u>DALAN</u> ▲ 062808N 0993920E	 141° <hr/> 321° 30.0 NM  141° <hr/> 321° 20.0 NM  141° <hr/> 321° 77.0 NM	 FL 460 <hr/> 6 500 FT Class A 7 000 FT  FL 460 <hr/> 6 500 FT Class A 7 000 FT  FL 460 <hr/> 9 500 FT Class A 10 000 FT	 20	 ↓          ↑	
For flight planning procedure, see ENR 1.10.					

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<b>G331</b>  ▲ <u>PADET</u> 100007N 0981719E  ▲ <u>DADSA</u> 090713N 0981749E  ▲ <u>SUSID</u> 083659N 0981808E  ▲ <u>PHUKET DVOR/DME (PUT)</u> 080655N 0981823E	  180° — 000°  53.0 NM  180° — 000°  30.0 NM  180° — 000°  30.0 NM	  FL 460 — 9 500 FT  Class A  10 000 FT  FL 460 — 6 500 FT  Class A  7 000 FT	  10	  ↓         ↑	
For flight planning procedure, see ENR 1.10.					

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				Odd	Even	
<b>G458</b>						
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 100354E	197° 017°	FL 460 7 500 FT	10		↓	
▲ <u>MOTNA</u> 131110N 100230E	44.0 NM	Class A 8 000 FT				
▲ <u>HOTEL</u> 130006N 100194E	197° 017°					
▲ <u>12.0 NM</u>						
▲ <u>UKERA</u> 120207N 100011E	198° 018°					
▲ <u>61.0 NM</u>						
▲ <u>MENEX</u> 110831N 099454E	196° 016°					
▲ <u>56.0 NM</u>						
▲ <u>APRIL</u> 110007N 099430E	197° 017°					
▲ <u>9.0 NM</u>						
▲ <u>IKERA</u> 093146N 099153E	198° 018°					
▲ <u>92.0 NM</u>						
▲ <u>SURAT THANI DVOR/DME (STN)</u> 090746N 099080E	198° 018°					
▲ <u>25.0 NM</u>						
▲ <u>LAMUL</u> 084818N 098520E	220° 040°	FL 460 6 500 FT				
▲ <u>25.0 NM</u>		Class A 7 000 FT				
▲ <u>SAVSA</u> 083016N 098372E	219° 039°					
▲ <u>23.0 NM</u>						
▲ <u>PHUKET DVOR/DME (PUT)</u> 080655N 098182E	220° 040°				↑	
▲ <u>30.0 NM</u>						
For flight planning procedure, see ENR 1.10.						



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<b>G463</b>  <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E  <u>TARED</u> ▲ 142620N 0993129E  <u>BETNO</u> ▲ 150554N 0981231E	  298° 118° 70.0 NM  298° 118° 86.0 NM	  FL 460 9 500 FT Class A 10 000 FT	  (*)	  ↓    ↑	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

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<b>G473</b>  MAKAS ▲ <u>164947N 0982949E</u>  PHITSANULOK DVOR/DME (PSL) ▲ <u>164613N 1001729E</u>  CHUM PHAE DVOR/DME (CMP) ▲ <u>163811N 1015905E</u>  UBON DVORDME (UBL) ▲ <u>151443N 1045157E</u>	  092° 272° 103.0 NM  094° 275° 98.0 NM  116° 297° 186.0 NM	  FL 460 9 000 FT Class A 10 000 FT	  (*)	  ↓         ↑	  Longitudinal separation between aircraft 15 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

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<b>G474</b> ▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E  △ <u>BATOK</u> 135606N 1015354E  ▲ <u>MENAM</u> 135724N 1024729E	 088° 268° 76.0 NM  088° 269° 52.0 NM   	 FL 460 9 500 FT Class A 10 000 FT   	 (*)   	 ↓  ↑	10 min longitudinal separation between aircraft applying Mach Number Technique  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

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<b>R201</b> <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E  <u>U-TAPAO DVOR/DME (BUT)</u> ▲ 124000N 1010002E	 162° 342° 77.0 NM	 FL 460 6 500 FT Class A 7 000 FT	 20	 ↓   ↑	 Excluding area of VTP7 Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

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<b>R202</b>  TATEL ▲ 172905N 0984549E  PHRAE DVOR/DME (PAE) ▲ 180803N 1000958E	  064° 244°  89.0 NM	  FL 460 12 500 FT/FL 125  Class A FL 130	  10	  ↓  ↑	
For flight planning procedure, see ENR 1.10.					

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<b>R203</b>  PHUKET DVOR/DME (PUT) ▲ 080655N 0981823E  UBZEN ▲ 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 width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

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<b>R207</b>					
▲ <u>SISUK</u> 194804N 0980243E	141° 321° 46.0 NM	FL 460 8 000 FT Class A	20	↓	Longitudinal separation between aircraft 15 min.
▲ <u>MACHI</u> 191306N 0983346E	141° 321° 10.0 NM	9 000 FT			
▲ <u>LAMUN</u> 190513N 0984044E	141° 321° 25.0 NM				
▲ <u>CHIANG MAI DVORDME (CMA)</u> 184558N 0985740E	088° 268° 38.0 NM	FL 460 9 500 FT Class A			
▲ <u>MONLO</u> 184702N 0993743E	088° 268° 66.0 NM	10 000 FT			
▲ <u>NAN DVORDME (NAN)</u> 184833N 1004657E	116° 296° 27.0 NM			↑	
▲ <u>ANBOK</u> 183635N 1011248E					
For flight planning procedure, see ENR 1.10.					

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<b>R215</b> CHIANG RAI DVORDME (CTR) ▲ 195654N 0995300E NAN DVORDME (NAN) ▲ 184833N 1004657E TOMIP ▲ 191105N 1011548E	 143° 323° 85.0 NM 051° 231° 35.0 NM	 FL 460 9 500 FT Class A 10 000 FT	 (*)	 ↓ ↑	Longitudinal separation between aircraft 15 min.
For flight planning procedure, see ENR 1.10.					



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<b>R325</b>						
▲ IKULA 100007N 0972114E	154° 334° 66.0 NM	FL 460 9 000 FT Class A 10 000 FT	(*)	↓	(*) For width of airways, see ENR 2.1-1.	
▲ MUDMA 090050N 0975115E	154° 334° 30.0 NM	FL 460 6 500 FT Class A 7 000 FT				
▲ UPSAB 083348N 0980452E	154° 334° 30.0 NM	7 000 FT				
▲ PHUKET DVOR/DME (PUT) 080655N 0981823E	134° 314° 30.0 NM					
▲ URGAD 074615N 0984031E	133° 313° 5.0 NM					
▲ OSVIP 074253N 0984409E	134° 314° 62.0 NM	FL 460 9 500 FT Class A 10 000 FT				
▲ UTHAI 070008N 0992949E	132° 312° 51.0 NM					
▲ DUBAX 062556N 1000737E				↑		
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST (COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>R334</b> <u>RAYONG DVOR/DME (RYN)</u> ▲ 124648N 1014042E  <u>SAKDA</u> ▲ 113654N 1030000E	 132° 312° 103.0 NM	 FL 460 FL 165 Class A FL 170	 20	 ↓   ↑	 Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>R345</b> ROI-ET DVOR/DME (ROT) ▲ 160701N 1034619E GRASO ▲ 150917N 1034714E PASAT ▲ 145727N 1034726E PEKBA ▲ 144808N 1034733E BIDEM ▲ 142154N 1034750E	 180° 000° 58.0 NM 180° 000° 12.0 NM 180° 000° 9.0 NM 180° 000° 26.0 NM	 FL 460 FL 215 Class A FL 220	 10	 ↓          ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>R468</b> <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E  <u>GORSI</u> ▲ 133055N 1012128E  <u>GOMES</u> ▲ 132406N 1013506E  <u>BOKAK</u> ▲ 125736N 1022947E	 118° 298° 50.0 NM  118° 298° 15.0 NM  117° 297° 60.0 NM	 FL 460 7 500 FT Class A 8 000 FT	 (*)	 ↓    ↑	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>R470</b>  <u>VIENTIANE DVOR/DME (VTN)</u> ▲ 180037N 1023226E  <u>UDON DVOR/DME (UDN)</u> ▲ 172304N 1024630E  <u>ROI-ET DVOR/DME (ROT)</u> ▲ 160701N 1034619E  <u>UBON DVOR/DME (UBL)</u> ▲ 151443N 1045157E	  339° 159° 40.0 NM  323° 143° 95.0 NM  309° 129° 82.0 NM	  FL 460 3 500 FT Class A 4 000 FT  FL 460 6 500 FT Class A 7 000 FT	  (*)	  ↓         ↑	For continuation, see AIP Lao People's Democratic Republic.  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
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
<b>R474</b>					
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	027° 207° 57.0 NM	FL 460 6 500 FT Class A	(*)	↓	(*) For width of airways, see ENR 2.1-1.
▲ <u>ALBOS</u> 144442N 1010142E	027° 207° 126.0 NM	7 000 FT			
▲ <u>CHUM PHAE DVOR/DME (CMP)</u> 163811N 1015905E	022° 202° 78.0 NM	FL 460 3 500 FT Class A 4 000 FT			
▲ <u>LEDER</u> 175044N 1022825E	022° 202° 11.0 NM	FL 460 3 500 FT Class A 4 000 FT			
▲ <u>VIENTIANE DVOR/DME (VTN)</u> 180037N 1023226E					
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>R575</b>					
▲ PHUKET DVOR/DME (PUT) 080655N 0981823E	069° 249° 30.0 NM	FL 460 8 500 FT Class A	10	↓	(*) For width of airways, see ENR 2.1-1.
▲ ONET1 081757N 0984633E	069° 249° 45.0 NM	9 000 FT			
▲ RECNO 083425N 0992825E	031° 211° 38.0 NM				
▲ MESEM 090719N 0994816E	031° 211° 30.0 NM				
▲ SAMUI DVOR/DME (SMU) 093249N 1000342E	070° 250° 15.0 NM	FL 460 6 500 FT Class A			
△ VININ 093754N 1001740E	070° 250° 13.0 NM	7 000 FT			
▲ UPNEP 094213N 1002936E	051° 231° 48.0 NM		(*)		
△ EMELA 101249N 1010729E	053° 233° 18.0 NM	FL 460 FL 155 Class A			
▲ RILVI 102334N 1012142E	053° 233° 37.0 NM	FL 160			
▲ ALUMO 104554N 1015123E	053° 233° 29.0 NM				
△ ANOBO 110323N 1021442E	054° 234° 56.0 NM			↑	
▲ SAKDA 113654N 1030000E					
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>R588</b>					
▲ PHUKET DVOR/DME (PUT) 080655N 0981823E	092° 272°	FL 460 9 500 FT	(*)	↓	(*) For width of airways, see ENR 2.1-1.
▲ EMRIT 080621N 0984840E	30.0 NM	Class A 10 000 FT			
▲ KRABI DVOR/DME (KBI) 080627N 0985839E	090° 270°				
▲ RELIP 080432N 1002619E	10.0 NM				
▲ IDRUK 082724N 1005513E	092° 272°	FL 460 FL 155			
△ SUPIN 083435N 1010419E	87.0 NM	Class A FL 160			
△ MUBAN 085441N 1012952E	052° 232°				
▲ TENUM 090229N 1013948E	37.0 NM				
△ TONIK 091736N 1015907E	052° 232°				
▲ BASIT 093447N 1022108E	12.0 NM				
	32.0 NM				
	052° 232°				
	13.0 NM				
	052° 232°				
	24.0 NM				
	052° 232°				
	28.0 NM			↑	
For flight planning procedure, see ENR 1.10.					



Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W1</b> <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E  <u>MALKI</u> ▲ 143111N 1011153E  <u>UBL0D</u> ▲ 143715N 1012612E  <u>KHORAT DVOR/DME (KRT)</u> ▲ 145502N 1020823E  <u>RAMEI</u> ▲ 150240N 1030040E  <u>RAMBU</u> △ 150554N 1032319E  <u>GRASO</u> ▲ 150917N 1034714E  <u>UBON DVOR/DME (UBL)</u> ▲ 151443N 1045157E	 044° 224° 51.0 NM  067° 247° 15.0 NM  067° 247° 45.0 NM  082° 262° 51.0 NM  082° 262° 22.0 NM  082° 262° 23.0 NM  086° 266° 63.0 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  FL 460 6 500 FT Class A 7 000 FT	 10	 ↓          ↑	 Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W4</b> UDON DVOR/DME (UDN) ▲ 172304N 1024630E  ROI-ET DVOR/DME (ROT) ▲ 160701N 1034619E  UBON DVOR/DME (UBL) ▲ 151443N 1045157E	  143° 323°  95.0 NM  129° 309°  82.0 NM	  FL 460 6 500 FT  Class A  7 000 FT	  (*)	  ↓      ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W5</b>  ▲ <u>UDON DVOR/DME (UDN)</u> 172304N 1024630E  ▲ <u>KHON KAEN DVOR/DME (KKN)</u> 162815N 1024716E  ▲ <u>ROI-ET DVOR/DME (ROT)</u> 160701N 1034619E  ▲ <u>UBON DVOR/DME (UBL)</u> 151443N 1045157E	  180° 000°  55.0 NM  110° 290°  61.0 NM  129° 309°  82.0 NM	  FL 460 6 500 FT  Class A 7 000 FT	  (*)	  ↓        ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W6</b>  ▲ <u>KHORAT DVOR/DME (KRT)</u> 145502N 1020823E  ▲ <u>KHON KAEN DVOR/DME (KKN)</u> 162815N 1024716E  ▲ <u>SAKON NAKHON DVOR/DME (SKN)</u> 171251N 1040812E  ▲ <u>NAKHON PHANOM DVOR/DME (NKP)</u> 172318N 1043818E	  022° 202°  100.0 NM  060° 240°  89.0 NM  070° 250°  31.0 NM	  FL 460 6 500 FT  Class A  7 000 FT	  (*)	  ↓          ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W7</b>  CHIANG MAI DVOR/DME (CMA) ▲ <u>184558N 0985740E</u>  PUMAM ▲ <u>180831N 0985001E</u>  LILRI ▲ <u>170333N 0983653E</u>  MAE SOT DVOR/DME (MST) ▲ <u>164152N 0983230E</u>	  $\frac{192^\circ}{012^\circ}$  38.0 NM  $\frac{192^\circ}{012^\circ}$  66.0 NM  $\frac{192^\circ}{012^\circ}$  22.0 NM   	  FL 460 8 000 FT  Class A  9 000 FT   	  (*)   	   ↓     ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W8</b>  ▲ <u>TAKHLI NDB (TL)</u> 151633N 1001751E  ▲ <u>KHORAT DVOR/DME (KRT)</u> 145502N 1020823E	  $\frac{102^\circ}{282^\circ}$  109.0 NM	  $\frac{FL 460}{6\ 500\ FT}$  Class A  7 000 FT	  (*)	  ↓    ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W9</b>					
▲ MAE HONG SON DVOR/DME (MHS) 191911N 0975444E	120° 300°	FL 460 8 500 FT	20	↓	Excluding restricted area VTR5. Longitudinal separation between aircraft 10 min. (* ) For width of airways, see ENR 2.1-1.
▲ BOKIB 190434N 0982225E	30.0 NM	Class A 9 000 FT			
▲ VISES 185811N 0983438E	119° 300°				
▲ CHIANG MAI DVOR/DME (CMA) 184558N 0985740E	13.2 NM				
▲ PANTA 181351N 0991917E	120° 300°				
▲ SARIM 173030N 0994737E	25.0 NM	FL 460 6 500 FT			
▲ PIBIK 171130N 1000028E	148° 328°	Class A 7 000 FT			
▲ PHITSANULOK DVOR/DME (PSL) 164613N 1001729E	38.0 NM				
▲ PEBLI 161606N 1001736E	149° 329°				
▲ TAKHLI NDB (TL) 151633N 1001751E	51.0 NM				
▲ BANGKOK DVOR/DME (BKK) 135337N 1003546E	148° 328°				
	23.0 NM				
	30.0 NM				
	181° 000°				
	30.0 NM				
	181° 000°				
	59.0 NM				
	169° 349°				
	84.0 NM				
				↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W10</b>  ▲ <u>KAMPHAENG SAEN DVOR/DME (KPS)</u> 140956N 0995715E  ▲ <u>VUTHI</u> 145007N 0995725E  ▲ <u>TAKHLI NDB (TL)</u> 151633N 1001751E	  001° ----- 181°  40.0 NM  037° ----- 218°  33.0 NM	  FL 260 ----- 5 500 FT  Class A  6 000 FT	  (*)	  ↓         ↑	For Military use only.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					



Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W12</b>  CHIANG MAI DVOR/DME (CMA) ▲ <u>184558N 0985740E</u>  MONLO ▲ <u>184702N 0993743E</u>  NAN DVORDME (NAN) ▲ <u>184833N 1004657E</u>	  088° ----- 268°  38.0 NM  088° ----- 268°  66.0 NM	  FL 460 ----- 7 000 FT  Class A  8 000 FT	  (*)	  ↓          ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W13</b>  ▲ <u>LAMPANG DVOR/DME (LPN)</u> 181636N 0993008E  ▲ <u>PHRAE DVOR/DME (PAE)</u> 180803N 1000958E	  $\frac{103^\circ}{283^\circ}$  39.0 NM	  $\frac{FL\ 460}{6\ 000\ FT}$  Class A 7 000 FT	  (*)	  ↓    ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W14</b>  ▲ PHUKET DVOR/DME (PUT) 080655N 0981823E  ▲ EPGOT 075416N 0984555E  ▲ TRANG DVOR/DME (TRN) 073032N 0993734E  ▲ HAT YAI DVOR/DME (HTY) 065603N 1002316E  ▲ PATTANI NDB (PT) 064718N 1010853E  ▲ NARATHIWAT DVOR/DME (NTW) 063138N 1014442E	  $\frac{115^\circ}{295^\circ}$ 30.0 NM  $\frac{115^\circ}{295^\circ}$ 57.0 NM  $\frac{127^\circ}{307^\circ}$ 57.0 NM  $\frac{101^\circ}{281^\circ}$ 46.0 NM  $\frac{114^\circ}{294^\circ}$ 39.0 NM  	  FL 460 $\frac{6\ 500\ FT}{7\ 000\ FT}$ Class A 7 000 FT	10	  ↓          ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>	
<b>W15</b>						
▲ <u>CHIANG MAI DVOR/DME (CMA)</u> 184558N 0985740E	$\frac{119^\circ}{299^\circ}$	$\frac{FL\ 460}{6\ 500\ FT}$	(*)	↓	Longitudinal separation between aircraft 10 min.  (* For width of airways, see ENR 2.1-1.	
▲ <u>KABMU</u> 182739N 0993247E	38.0 NM	Class A 7 000 FT				
▲ <u>PHRAE DVOR/DME (PAE)</u> 180803N 1000958E	40.0 NM					
△ <u>PANKU</u> 172035N 1005606E	$\frac{137^\circ}{317^\circ}$	65.0 NM				
▲ <u>LOEI DVOR/DME (LOY)</u> 172649N 1014323E	$\frac{082^\circ}{262^\circ}$	45.0 NM				
▲ <u>UDON DVOR/DME (UDN)</u> 172304N 1024630E	$\frac{094^\circ}{274^\circ}$	61.0 NM				
▲ <u>SAKON NAKHON DVOR/DME (SKN)</u> 171251N 1040812E	$\frac{097^\circ}{277^\circ}$	79.0 NM				↑
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W16</b>					
▲ CHIANG MAI DVOR/DME (CMA) 184558N 0985740E	126° 306°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min.  (* ) For width of airways, see ENR 2.1-1.
▲ ASAVI 182326N 0992958E	38.0 NM	Class A 7 000 FT			
▲ UTTAR 174305N 1002706E	126° 306°				
▲ CHUM PHAE DVOR/DME (CMP) 163811N 1015905E	109.0 NM				
▲ KHON KAEN DVOR/DME (KKN) 162815N 1024716E	102° 282°			↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W17</b>					
▲ <u>RANONG DVOR/DME (RAN)</u> 094643N 0983502E	140° 320°	FL 460 6 500 FT	10	↓	
▲ <u>TOGIM</u> 092659N 0985148E	26.0 NM	Class A 7 000 FT			
▲ <u>SURAT THANI DVOR/DME (STN)</u> 090746N 0990805E	140° 320°	7 000 FT			
▲ <u>EMVEL</u> 084438N 0992122E	25.0 NM	FL 460 7 500 FT			
▲ <u>HAT YAI DVOR/DME (HTY)</u> 065603N 1002316E	151° 331°	Class A 8 000 FT		↑	
▲ <u>HAT YAI DVOR/DME (HTY)</u> 065603N 1002316E	27.0 NM	8 000 FT			
▲ <u>HAT YAI DVOR/DME (HTY)</u> 065603N 1002316E	151° 331°	8 000 FT			
▲ <u>HAT YAI DVOR/DME (HTY)</u> 065603N 1002316E	124.0 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
<b>W19</b>					
▲ BANGKOK DVOR/DME (BKK) 135337N 1003546E	182° 002°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min. (* ) For width of airways, see ENR 2.1-1.
△ POLAK 132106N 1003454E	32.0 NM	Class A 7 000 FT			
▲ GUTSO 124820N 1003454E	181° 001°				
▲ REGOS 120007N 1003454E	33.0 NM				
▲ DIRAX 110007N 1003248E	181° 001°				
▲ TUSPU 101948N 1003108E	48.0 NM				
▲ UPNEP 094213N 1002936E	182° 002°				
▲ ROBDA 092558N 1003511E	60.0 NM				
▲ IDRUK 082724N 1005513E	183° 003°				
▲ ADNEP 080344N 1010318E	40.0 NM				
▲ NARATHIWAT DVOR/DME (NTW) 063138N 1014442E	183° 003°				
	162° 342°				
	17.0 NM				
	162° 342°				
	62.0 NM				
	162° 342°				
	25.0 NM				
	156° 336°				
	101.0 NM			↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W20</b>  ▲ <u>CHIANG MAI DVOR/DME (CMA)</u> 184558N 0985740E  ▲ <u>ADLUS</u> 190610N 0991320E  ▲ <u>CHIANG RAI DVOR/DME (CTR)</u> 195654N 0995300E	  036° ----- 216°  25.0 NM  036° ----- 216°  63.0 NM	  FL 350 ----- 7 500 FT  Class A  8 000 FT	  10	  ↓         ↑	Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					



Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W21</b>  ▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E  ▲ <u>NOBER</u> 151636N 1004006E  ▲ <u>CHUM PHAE DVOR/DME (CMP)</u> 163811N 1015905E  ▲ <u>UDON DVORDME (UDN)</u> 172304N 1024630E	  003° 183° 83.0 NM  043° 223° 111.0 NM  046° 226° 64.0 NM	  FL 460 10 000 FT Class A 11 000 FT/FL 110  FL 460 6 500 FT Class A 7 000 FT	  10	  ↓         ↑	  .Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W22</b>  ▲ <u>PHITSANULOK DVOR/DME (PSL)</u> 164613N 1001729E  ▲ <u>NIROP</u> 171614N 1001444E  ▲ <u>PHRAE DVOR/DME (PAE)</u> 180803N 1000958E  ▲ <u>CHIANG RAI DVOR/DME (CTR)</u> 195654N 0995300E	  $\frac{356^\circ}{176^\circ}$ 30.0 NM  $\frac{356^\circ}{176^\circ}$ 52.0 NM  $\frac{352^\circ}{172^\circ}$ 110.0 NM	  FL 460 6 500 FT Class A 7 000 FT	  10	  ↓    ↑	Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W23</b> PHITSANULOK DVOR/DME (PSL) ▲ <u>164613N 1001729E</u> POLOB ▲ <u>171309N 1000328E</u> PIVUT △ <u>174644N 0994553E</u> LAMPANG DVOR/DME (LPN) ▲ <u>181636N 0993008E</u>	 334° 154° 30.0 NM 334° 154° 37.0 NM 334° 154° 33.0 NM  	 FL 460 6 500 FT Class A 7 000 FT  	 (*)    ↑	  ↓    ↑	 Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W24</b>  ▲ <u>SURAT THANI DVOR/DME (STN)</u> 090746N 0990805E  ▲ <u>IDNAR</u> 084344N 0991524E  ▲ <u>BITEN</u> 082659N 0992029E  ▲ <u>TRANG DVOR/DME (TRN)</u> 073032N 0993734E	  $\frac{164^\circ}{344^\circ}$ 25.0 NM  $\frac{164^\circ}{344^\circ}$ 17.0 NM  $\frac{164^\circ}{344^\circ}$ 59.0 NM  	  FL 460 7 500 FT  Class A 8 000 FT  	  10  	  ↓        ↑	  Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W25</b> ▲ <u>SUKHOTHAI NDB (THS)</u> 171407N 0994919E  ▲ <u>PHRAE DVOR/DME (PAE)</u> 180803N 1000958E  ▲ <u>NAN DVORDME (NAN)</u> 184833N 1004657E	  021° 201° 57.0 NM  041° 221° 54.0 NM   	  FL 460 6 500 FT Class A 9 000 FT  FL 460 8 000 FT Class A 9 000 FT   	  (*)    	  ↓   ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>		
<b>W26</b>							
▲ MAE SOT DVOR/DME (MST) 164152N 0983230E	074° 254°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.		
▲ ISBEL 164754N 0985341E	21.0 NM	Class A 7 000 FT					
▲ TAK NDB (TK) 165358N 0991508E	074° 254°	22.0 NM					
▲ PHITSANULOK DVOR/DME (PSL) 164613N 1001729E	098° 278°	60.0 NM					
▲ GOKON 164301N 1004834E	097° 277°	30.0 NM					
▲ PHETCHABUN DVOR/DME (PCB) 164034N 1011148E	097° 277°	22.0 NM					
▲ CHUM PHAE DVOR/DME (CMP) 163811N 1015905E	094° 274°	46.0 NM				↑	
For flight planning procedure, see ENR 1.10.							

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W27</b> PHITSANULOK DVOR/DME (PSL) ▲ <u>164613N 1001729E</u>  REMER ▲ <u>165935N 1004531E</u>  LOEI DVOR/DME (LOY) ▲ <u>172649N 1014323E</u>	  064° 245° 30.0 NM  065° 245° 62.0 NM	  FL 460 6 000 FT Class A 7 000 FT	  (*)	  ↓    ↑	Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
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
<b>W28</b>  ▲ SURAT THANI DVOR/DME (STN) 090746N 0990805E  ▲ SEGRA 085300N 0992831E  ▲ NAKHON SI THAMMARAT DVOR/DME (NKS) 083230N 0995649E  ▲ HAT YAI DVOR/DME (HTY) 065603N 1002316E	  126° 306°  25.0 NM  126° 306°  35.0 NM  165° 345°  100.0 NM   	  FL 460 8 500 FT  Class A  9 000 FT  FL 460 7 500 FT  Class A  8 000 FT   	  10          	  ↓         ↑	          
For flight planning procedure, see ENR 1.10.					



Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W29</b>					
PHITSANULOK DVOR/DME (PSL)					
▲ 164613N 1001729E	010° 190°	FL 460 6 500 FT	10	↓	Longitudinal separation between aircraft 10 min.
▲ GOSTA 171557N 1002230E	30.0 NM	Class A 7 000 FT			
▲ UTTAR 174305N 1002706E	010° 190°	27.0 NM			
▲ NAN DVOR/DME (NAN) 184833N 1004657E	017° 197°	68.0 NM		↑	
▲ CHIANG RAI DVOR/DME (CTR) 195654N 0995300E	324° 144°	FL 460 8 500 FT		↓	
	85.0 NM	Class A 9 000 FT		↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W31</b>					
▲ <u>SUPOJ</u> 101642N 1001220E	355° 175°	FL 460 3 500 FT	10	↓	
▲ <u>EGUBO</u> 112838N 1000450E	72.0 NM	Class A 4 000 FT			
△ <u>UKERA</u> 120207N 1000110E	354° 174°	34.0 NM			
▲ <u>HUA HIN DVOR/DME (HHN)</u> 123804N 0995704E	36.0 NM	046° 226°	FL 150 3 500 FT		
▲ <u>HOTEL</u> 130006N 1001948E	31.0 NM	Class A 4 000 FT			
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	017° 197°	FL 150 7 500 FT	Class A		
	56.0 NM	8 000 FT	Class A		↑
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W32</b>					
▲ REGOS 120007N 1003454E	193° 013° 43.0 NM	FL 460 3 500 FT Class A	10		Unidirectional Conditional Route (CDR) Portion REGOS - SMU  1.Available on weekdays, Mon - Fri 1700-2300 UTC.  2.Available from Friday 1700 UTC to Sunday 2300 UTC and public holiday.  3.Other Period, Availability shall be notified by NOTAM or Airspace use plan (AUP) in www.thaicmac.aerothai.aero
▲ GOKEX 111815N 1002544E	193° 013° 63.0 NM	4 000 FT		↑	
▲ SUPOJ 101642N 1001220E	191° 011° 15.0 NM			↓	
▲ ENRAG 100223N 1000931E	191° 011° 30.0 NM				
▲ SAMUI DVOR/DME (SMU) 093249N 1000342E	246° 066° 19.0 NM				
▲ DORNA 092459N 0994614E	246° 066° 16.0 NM				
△ ADLAL 091810N 0993106E	246° 066° 9.0 NM				
▲ VEGNA 091427N 0992251E	246° 066° 16.0 NM				
▲ SURAT THANI DVOR/DME (STN) 090746N 0990805E	189° 009° 19.0 NM	FL 460 7 500 FT Class A			
▲ TEDOS 084834N 0990507E	189° 009° 6.0 NM	8 000 FT			
▲ TAVAT 084257N 0990416E	189° 009° 12.0 NM				
▲ NULMA 083118N 0990228E	189° 009° 3.0 NM				
▲ LUXIR 082819N 0990200E	189° 009° 7.0 NM				
▲ SARER 082127N 0990057E	189° 009° 15.0 NM			↑	
▲ KRABI DVOR/DME (KBI) 080627N 0985839E	133° 313° 28.0 NM			↓	
▲ TUNRA 074737N 0991905E	133° 313° 25.0 NM			↑	
▲ TRANG DVOR/DME (TRN) 073032N 0993734E					

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
<b>W33</b>					
▲ PHUKET DVOR/DME (PUT) 080655N 0981823E	069° 249°	FL 460 9 500 FT	10	↓	Conditional Route (CDR) Portion PUT-SMU  1.Available on weekdays, Monday to Friday 1700-2300 UTC.  2.Available from Friday 1700 UTC to Sunday 2300 UTC and public holiday.  3.Other Period, Availability shall be notified by NOTAM or Airspace use plan (AUP) in www.thaicmac.aerothai.aero
▲ ONET1 081757N 0984633E	30.0 NM	Class A 10 000 FT			
▲ RECNO 083425N 0992825E	069° 249°				
▲ MESEM 090719N 0994816E	45.0 NM				
▲ SAMUI DVOR/DME (SMU) 093249N 1000342E	031° 211°	FL 460 6 500 FT			
▲ VININ 093754N 1001740E	38.0 NM	Class A 7 000 FT			
▲ UPNEP 094213N 1002936E	031° 211°				
▲ MABKO 094809N 1003543E	30.0 NM				
▲ SURIX 105959N 1015015E	070° 250°				
▲ TRAT NDB (TRT) 121628N 1021850E	15.0 NM				
▲ RAYONG DVOR/DME (RYN) 124648N 1014042E	070° 250°				
	13.0 NM				
	046° 226°				
	8.0 NM				
	046° 226°				
	103.0 NM				
	021° 201°				
	81.0 NM				
	310° 129°				
	48.0 NM				
				↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W34</b>  ▲ <u>MENEX</u> 110831N 0994543E  ▲ <u>CHUM PHON DVOR/DME (CPN)</u> 104240N 0992156E  ▲ <u>RANONG DVOR/DME (RAN)</u> 094643N 0983502E  ▲ <u>I GEVI</u> 083640N 0982320E  ▲ <u>PHUKET DVOR/DME (PUT)</u> 080655N 0981823E	  $\frac{223^\circ}{043^\circ}$ 35.0 NM  $\frac{220^\circ}{040^\circ}$ 72.0 NM  $\frac{190^\circ}{010^\circ}$ 71.0 NM  $\frac{190^\circ}{010^\circ}$ 30.0 NM	  $\frac{FL 460}{6 500 FT}$ Class A 7 000 FT	  10	  ↓         ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W35</b>  ▲ <u>UPNEP</u> 094213N 1002936E  ▲ <u>PINUN</u> 092825N 1002306E  ▲ <u>PAGLU</u> 091549N 1001709E  NAKHON SI THAMMARAT DVOR/DME (NKS) ▲ <u>083230N 0995649E</u>  TRANG DVOR/DME (TRN) ▲ <u>073032N 0993734E</u>	  206° 026°  15.0 NM  205° 025°  14.0 NM  205° 025°  48.0 NM  198° 018°  65.0 NM	  FL 460 7 500 FT  Class A 8 000 FT	  10	  ↓         ↑	Conditional Route (CDR) Portion UPNEP - NKS  1.Available on weekdays, Monday to Friday 1700-2300 UTC.  2.Available from Friday 1700 UTC to Sunday 2300 UTC and public holiday.  3.Other Period, Availability shall be notified by NOTAM or Airspace use plan (AUP) in <a href="http://www.thaicmac.aerothai.aero">www.thaicmac.aerothai.aero</a>
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W36</b>  CHIANG MAI DVOR/DME (CMA) ▲ <u>184558N 0985740E</u>  LAMUN ▲ <u>190513N 0984044E</u>  MACHI ▲ <u>191306N 0983346E</u>  DOMKA ▲ <u>191419N 0982602E</u>  MAE HONG SON DVOR/DME (MHS) ▲ <u>191911N 0975444E</u>	  321° 141° 25.0 NM  321° 141° 10.0 NM  280° 100° 7.4 NM  280° 100° 30.0 NM	  FL 460 8 000 FT  Class A 9 000 FT	  10	  ↓         ↑	  Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST (COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W38</b>  RAMEI ▲ <u>150240N 1030040E</u>  BURI RAM DVOR/DME (BRM) ▲ <u>151422N 1031532E</u>  ROI-ET DVOR/DME (ROT) ▲ <u>160701N 1034619E</u>	  052° 232°  20.0 NM  030° 210°  60.0 NM	  FL 460 6 500 FT  Class A  7 000 FT	  (*)	  ↓         ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					



Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W39</b>  ▲ <u>NOBER</u> 151636N 1004006E  ▲ <u>PHETCHABUN DVOR/DME (PCB)</u> 164034N 1011148E  ▲ <u>LOEI DVOR/DME (LOY)</u> 172649N 1014323E	  020° 200°  89.0 NM  033° 213°  55.0 NM	  FL 460 6 500 FT  Class A 7 000 FT	  (*)	  ↓    ↑	  Longitudinal separation between aircraft 10 min.  (*) For width of airways, see ENR 2.1-1.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W40</b> ▲ PHRAE DVORDME (PAE) 180803N 1000958E ▲ PHETCHABUN DVORDME (PCB) 164034N 1011148E	146° 326° 105.0 NM	FL 460 6 500 FT Class A 7 000 FT	10	↓   ↑	Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W42</b>					
▲ MENEX 110831N 0994543E	044° 224° 28.0 NM	FL 460 FL 155 Class A FL 160	20	↓	
▲ EGUBO 112838N 1000450E	044° 224° 14.0 NM				
▲ UPVIL 113836N 1001421E	044° 224° 18.0 NM				
▲ SURMA 115122N 1002633E	044° 224° 12.0 NM				
▲ REGOS 120007N 1003454E	055° 235° 5.0 NM				
▲ ASEKU 120306N 1003905E	055° 235° 32.0 NM	FL 460 FL 285 Class A FL 290			
▲ PIDEL 122143N 1010514E	055° 035° 25.0 NM				
▲ ALEMI 123626N 1012600E	055° 235° 18.0 NM				
▲ RAYONG DVOR/DME (RYN) 124648N 1014042E	030° 210° 14.0 NM	FL 460 FL 125 Class A FL 130			
▲ RUPTA 125839N 1014733E	030° 210° 17.0 NM	FL 460 FL 155 Class A FL 160			
▲ BERLU 131350N 1015620E	030° 210° 49.0 NM	FL 460 FL 205 Class A FL 210			
▲ ELNIB 135647N 1022120E	030° 310° 30.0 NM				
▲ XIKMA 142236N 1023626E	031° 211° 18.0 NM				
▲ TOPER 143808N 1024538E	031° 211° 16.0 NM				
▲ PAKRI 145202N 1025409E	032° 212° 12.0 NM	FL 460 6 500 FT Class A 7 000 FT		↑	
▲ RAMEI 150240N 1030040E					

For flight planning procedure, see ENR 1.10.

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W43</b>  CHUM PHAE DVOR/DME (CMP) ▲ 163811N 1015905E   OKENA ▲ 161608N 1042533E	  098° 278°  142.0 NM	  FL 460 6 500 FT  Class A 7 000 FT	  20	  ↓   ↑	  Longitudinal separation between aircraft 10 min
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
<b>W44</b> <u>NARATHIWAT DVOR/DME (NTW)</u> ▲ 063138N 1014442E  <u>ERVES</u> ▲ 061208N 1012853E  <u>BETONG DVOR/DME (BET)</u> ▲ 054708N 1010839E	  219° 039° 25.0 NM  219° 039° 32.0 NM   	  FL 460 8 500 FT  Class A  9 000 FT   	  10    	  ↓    ↑  	

Route designator (RNP type) Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST(COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W650</b>  HAT YAI DVOR/DME (HTY) ▲ 065603N 1002316E  POPID ▲ 062908N 1003212E	  162° 342° 28.0 NM	  FL 145 10 500 FT Class A 11 000 FT/FL 110	  10	  ↓  ↑	Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST (COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W94</b>  NAKHON SI THAMMARAT DVOR/DME (NKS) ▲ 083230N 0995649E  GUPMO ▲ 085012N 1002750E	  061° 241° 35.0 NM	  FL 460 4 500 FT Class A 5 000 FT	  10	  ↓  ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates  <b>1</b>	Track MAG (GEO) VOR RDL DIST (COP)  <b>2</b>	Upper limits Lower limits or Airspace classification Minimum flight altitude  <b>3</b>	Lateral limits NM  <b>4</b>	Direction of cruising levels  Odd   Even  <b>5</b>	Remarks Controlling unit Frequency  <b>6</b>
<b>W99</b> SAMUI DVOR/DME (SMU) ▲ 093249N 1000342E OLBAG ▲ 095849N 1001852E APUSA △ 100057N 1002007E DONSI ▲ 100738N 1002401E TUSPU ▲ 101948N 1003108E	 030° 210° 30.0 NM 030° 210° 2.0 NM 031° 211° 8.0 NM 031° 211° 14.0 NM	 FL 460 4 500 FT Class A 5 000 FT FL 460 6 500 FT Class A 7 000 FT	 10	 ↓	Uni-directional route (northbound)
For flight planning procedure, see ENR 1.10.					