

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 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
A1					
BANGKOK DVOR/DME (BKK)					
▲ 135337N 1003546E	071° 251°	FL 460 7 500 FT	10	↓	Longitudinal separation between aircraft 10 min.
▲ ROBKA 141043N 1012508E	51.0 NM	Class A 8 000 FT			One way system will be applied for a portion between BKK DVOR/DME and UBL DVOR/DME as follows:
▲ SELKA 142020N 1015311E	071° 251° 29.0 NM				- ATS route A1 will apply for eastbound traffic only
▲ TOPER 143808N 1024538E	071° 251° 54.0 NM				- Westbound traffic shall filed flight plan via W1 after UBL
△ SANOT 145134N 1032548E	072° 252° 41.0 NM				- The available for westbound traffic on A1 or direct route will be subject to prior approval from ATC
▲ PASAT 145727N 1034726E	075° 255° 22.0 NM				
▲ UBON DVOR/DME (UBL) 151443N 1045157E	075° 255° 65.0 NM				
▲ BUTRA 152506N 1053546E	077° 257° 44.0 NM	FL 460 9 500 FT Class A 10 000 FT		↓ ↑	
For flight planning procedure, see ENR 1.10.					

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A202 <u>RAMEI</u> ▲ 150240N 1030040E <u>GUROK</u> ▲ 160329N 1041106E <u>OKENA</u> ▲ 161608N 1042533E SAVANNAKHET DVOR/DME (SAV) ▲ 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.					

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
A334 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.					

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
A457 <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.					

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

For flight planning procedure, see ENR 1.10.

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A581						For continuation, see AIP Republic of the Union of Myanmar.	
▲ <u>BOMAS</u> 172305N 0980549E	082° 262° 39.0 NM	FL 460 10 500 FT Class A FL 110	10	↓		Longitudinal separation between aircraft 10 min.	
▲ <u>TATEL</u> 172905N 0984549E	009° 189° 39.0 NM						
▲ <u>GOGOP</u> 180813N 0985150E	009° 189° 38.0 NM						
▲ <u>CHIANG MAI DVOR/DME (CMA)</u> 184558N 0985740E	037° 217° 25.0 NM	FL 350 7 500 FT Class A 8 000 FT					
▲ <u>ADLUS</u> 190610N 0991320E	037° 217° 33.0 NM						
▲ <u>NUMDO</u> 193243N 0993402E	037° 218° 30.0 NM						
▲ <u>CHIANG RAI DVOR/DME (CTR)</u> 195654N 0995300E	053° 233° 36.0 NM	FL 460 6 500 FT Class A 7 000 FT					
▲ <u>PONUUK</u> 201858N 1002306E					↑		
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
B202 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.					

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
B204 <u>GOMES</u> ▲ 132406N 1013506E <u>AGEDO</u> ▲ 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.					

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
B205 <u>RAYONG DVOR/DME (RYN)</u> ▲ 124648N 1014042E <u>OLDIR</u> ▲ 125401N 1021325E <u>BOKAK</u> ▲ 125736N 1022947E	 078° 258° 33.0 NM 078° 258° 16.0 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.					

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
B218 <u>VIENTIANE DVOR/DME (VTN)</u> ▲ 180037N 1023226E <u>NOGAD</u> ▲ 173834N 1020021E <u>LOEI DVOR/DME (LOY)</u> ▲ 172649N 1014323E <u>BOVGO</u> ▲ 170740N 1014935E <u>CHUM PHAE DVOR/DME (CMP)</u> ▲ 163811N 1015905E	 235° 055° 38.0 NM 235° 055° 20.0 NM 164° 344° 20.0 NM 164° 344° 31.0 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.					

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
B346 ▲ <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 021° 201° 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.					

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
B460 ▲ <u>KHORAT DVOR/DME (KRT)</u> 145502N 1020823E ▲ <u>BODUR</u> 154853N 1032127E ▲ <u>ROI-ET DVOR/DME (ROT)</u> 160701N 1034619E ▲ <u>RURAR</u> 161943N 1041436E ▲ <u>SAVANNAKHET DVOR/DME (SAV)</u> 163342N 1044556E	 053° 234° 89.0 NM 054° 234° 30.0 NM 066° 246° 30.0 NM 066° 246° 33.0 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.					

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
B579 <u>PHUKET DVOR/DME (PUT)</u> ▲ 080655N 0981823E <u>REBED</u> ▲ 074332N 0983736E <u>NUTGU</u> ▲ 072803N 0985020E <u>DALAN</u> ▲ 062808N 0993920E	 141° ----- 321° 30.0 NM 141° ----- 321° 20.0 NM 141° ----- 321° 77.0 NM	 FL 460 ----- 6 500 FT Class A 7 000 FT FL 460 ----- 6 500 FT Class A 7 000 FT FL 460 ----- 9 500 FT Class A 10 000 FT	 20	 ↓ ↑	
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
G331 PADET ▲ 100007N 0981719E DADSA ▲ 090713N 0981749E SUSID ▲ 083659N 0981808E PHUKET DVOR/DME (PUT) ▲ 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.					

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
G458					
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	197° 017° 44.0 NM	FL 460 7 500 FT Class A 8 000 FT	10	↓	
▲ <u>MOTNA</u> 131110N 1002306E	197° 017° 12.0 NM				
▲ <u>HOTEL</u> 130006N 1001948E	198° 018° 61.0 NM				
▲ <u>UKERA</u> 120207N 1000110E	196° 016° 56.0 NM				
▲ <u>MENEX</u> 110831N 0994543E	197° 017° 9.0 NM				
▲ <u>APRIL</u> 110007N 0994307E	198° 018° 92.0 NM				
▲ <u>IKERA</u> 093146N 0991532E	198° 018° 25.0 NM				
▲ <u>SURAT THANI DVOR/DME (STN)</u> 090746N 0990805E	220° 040° 25.0 NM	FL 460 6 500 FT Class A 7 000 FT			
▲ <u>LAMUL</u> 084818N 0985208E	219° 039° 23.0 NM				
▲ <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
G463 BANGKOK DVOR/DME (BKK) ▲ 135337N 1003546E TARED ▲ 142620N 0993129E BETNO ▲ 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.					

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
G473 MAKAS ▲ 164947N 0982949E PHITSANULOK DVOR/DME (PSL) ▲ 164613N 1001729E CHUM PHAE DVOR/DME (CMP) ▲ 163811N 1015905E UBON DVORDME (UBL) ▲ 151443N 1045157E	 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.					

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
G474 <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E <u>ANKOS</u> ▲ 135300N 1012742E <u>DOSBU</u> ▲ 135240N 1015002E <u>ANREN</u> ▲ 135212N 1021838E <u>OMURO</u> ▲ 135143N 1024559E	 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	 (*)	 ↓ ↑	 Available from FL250 and below. (*) For width of airways, see ENR 2.1-1. For continuation, see AIP Kingdom of Cambodia.
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
R201 <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.					

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
R202 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.					

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
R203 <u>PHUKET DVOR/DME (PUT)</u> ▲ 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 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
R207 ▲ <u>SISUK</u> 194804N 0980243E ▲ <u>MACHI</u> 191306N 0983346E ▲ <u>LAMUN</u> 190513N 0984044E ▲ <u>CHIANG MAI DVORDME (CMA)</u> 184558N 0985740E ▲ <u>MONLO</u> 184702N 0993743E ▲ <u>NAN DVORDME (NAN)</u> 184833N 1004657E ▲ <u>ANBOK</u> 183635N 1011248E	 141° 321° 46.0 NM 141° 321° 10.0 NM 141° 321° 25.0 NM 088° 268° 38.0 NM 088° 268° 66.0 NM 116° 296° 27.0 NM	 FL 460 8 000 FT Class A 9 000 FT FL 460 9 500 FT Class A 10 000 FT	20	 ↓ ↑	Longitudinal separation between aircraft 15 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
R215 CHIANG RAI DVOR/DME (CTR) ▲ 195654N 0995300E DUBEN ▲ 193249N 1001207E NAN DVOR/DME (NAN) ▲ 184833N 1004657E TOMIP ▲ 191105N 1011548E	 144° 324° 30.0 NM 144° 324° 55.0 NM 051° 232° 35.0 NM	 FL 460 9 500 FT Class A 10 000 FT	 (*)	 ↓ ↑	 Longitudinal separation between aircraft 15 min. For continuation, see AIP Lao People's Democratic Republic.
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
R325					
▲ 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 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
R334 <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 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
R468 <u>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	 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 FL 460 FL 155 Class A FL 160	 (*) 	 ↓ ↑	 Available from FL250 and below. (*) For width of airways, see ENR 2.1-1. For continuation, see AIP Kingdom of Cambodia.
For flight planning procedure, see ENR 1.10.					

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R470					For continuation, see AIP Lao People's Democratic Republic.
▲ <u>VIENTIANE DVOR/DME (VTN)</u> 180037N 1023226E	161° 341°	FL 460 3 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min.
▲ <u>ELNET</u> 174625N 1023746E	15.0 NM 161° 341°	Class A 4 000 FT			(*) For width of airways, see ENR 2.1-1.
▲ <u>UDON DVOR/DME (UDN)</u> 172304N 1024630E	25.0 NM 144° 324°	FL 460 6 500 FT			
▲ <u>POVEX</u> 165905N 1030530E	30.0 NM 144° 324°	Class A 7 000 FT			
▲ <u>DOTUS</u> 163103N 1032732E	35.0 NM 144° 324°				
▲ <u>ROI-ET DVOR/DME (ROT)</u> 160701N 1034619E	30.0 NM 130° 310°				
▲ <u>ENTEK</u> 154755N 1041024E	30.0 NM 130° 310°				
▲ <u>UBON DVOR/DME (UBL)</u> 151443N 1045157E	52.0 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
R474 BANGKOK DVOR/DME (BKK) ▲ 135337N 1003546E ALBOS ▲ 144442N 1010142E CHUM PHAE DVOR/DME (CMP) ▲ 163811N 1015905E LEDER ▲ 175044N 1022825E VIENTIANE DVOR/DME (VTN) ▲ 180037N 1023226E	 027° 207° 57.0 NM 027° 207° 126.0 NM 022° 202° 78.0 NM 022° 202° 11.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 3 500 FT Class A 4 000 FT FL 460 3 500 FT Class A 4 000 FT	 (*) 	 ↓ ↑	 (*) 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.					

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		
R575							
▲ 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 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		
R588							
▲ 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	10.0 NM						
▲ RELIP 080432N 1002619E	87.0 NM						
▲ IDRUK 082724N 1005513E	37.0 NM	FL 460 FL 155 Class A FL 160					
△ SUPIN 083435N 1010419E	12.0 NM						
△ MUBAN 085441N 1012952E	32.0 NM						
▲ TENUM 090229N 1013948E	13.0 NM						
△ TONIK 091736N 1015907E	24.0 NM						
▲ BASIT 093447N 1022108E	28.0 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		
W1							
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	044° 224°	FL 460 6 500 FT	10	↓	Longitudinal separation between aircraft 10 min.		
▲ <u>MALKI</u> 143111N 1011153E	51.0 NM	Class A 7 000 FT					
▲ <u>UBLOD</u> 143715N 1012612E	15.0 NM	FL 460 12 500 FT/FL 125					
▲ <u>KHORAT DVOR/DME (KRT)</u> 145502N 1020823E	45.0 NM	Class A 13 000 FT/FL 130					
▲ <u>RAMEI</u> 150240N 1030040E	51.0 NM	FL 460 6 500 FT					
△ <u>RAMBU</u> 150554N 1032319E	22.0 NM	Class A 7 000 FT					
▲ <u>GRASO</u> 150917N 1034714E	23.0 NM						
▲ <u>UBON DVOR/DME (UBL)</u> 151443N 1045157E	63.0 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
W4					
▲ UDON DVOR/DME (UDN) 172304N 1024630E	144° 324°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.
▲ POVEX 165905N 1030530E	30.0 NM	Class A 7 000 FT			
▲ DOTUS 163103N 1032732E	144° 324°	35.0 NM			
▲ ROI-ET DVOR/DME (ROT) 160701N 1034619E	30.0 NM				
▲ ENTEK 154755N 1041024E	130° 310°	30.0 NM			
▲ UBON DVOR/DME (UBL) 151443N 1045157E	30.0 NM				
	52.0 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		
W5							
▲ UDON DVOR/DME (UDN) 172304N 1024630E	180° 000°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.		
▲ ANPUS 165800N 1024651E	25.0 NM	Class A 7 000 FT					
▲ ALGIT 165300N 1024655E	180° 000°	5.0 NM					
▲ KHON KAEN DVOR/DME (KKN) 162815N 1024716E	25.0 NM	111° 291°					
▲ SEDNO 161733N 1031707E	31.0 NM	111° 291°					
▲ ROI-ET DVOR/DME (ROT) 160701N 1034619E	30.0 NM	130° 310°					
▲ ENTEK 154755N 1041024E	30.0 NM	130° 310°					
▲ UBON DVOR/DME (UBL) 151443N 1045157E	52.0 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
W6 ▲ <u>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	 <div style="text-align: center;"> $\frac{023^\circ}{203^\circ}$ 70.0 NM </div> <div style="text-align: center;"> $\frac{023^\circ}{203^\circ}$ 30.0 NM </div> <div style="text-align: center;"> $\frac{061^\circ}{241^\circ}$ 24.0 NM </div> <div style="text-align: center;"> $\frac{061^\circ}{241^\circ}$ 65.0 NM </div> <div style="text-align: center;"> $\frac{071^\circ}{251^\circ}$ 31.0 NM </div>	 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 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
W7 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 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
W8 ▲ TAKHLI NDB (TL) 151633N 1001751E ▲ KHORAT DVOR/DME (KRT) 145502N 1020823E	 102° 282° 109.0 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 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	
W9						
MAE HONG SON DVOR/DME (MHS) ▲ <u>191911N 0975444E</u>	120° 300° 30.0 NM	FL 460 8 500 FT Class A	20	↓	Excluding restricted area VTR5. Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.	
BOKIB ▲ <u>190434N 0982225E</u>	119° 300° 13.2 NM	9 000 FT				
VISES ▲ <u>185811N 0983438E</u>	120° 300° 25.0 NM					
CHIANG MAI DVOR/DME (CMA) ▲ <u>184558N 0985740E</u>	148° 328° 38.0 NM	FL 460 6 500 FT Class A				
PANTA ▲ <u>181351N 0991917E</u>	149° 329° 51.0 NM	7 000 FT				
SARIM △ <u>173030N 0994737E</u>	148° 328° 23.0 NM					
PIBIK ▲ <u>171130N 1000028E</u>	148° 328° 30.0 NM					
PHITSANULOK DVOR/DME (PSL) ▲ <u>164613N 1001729E</u>	181° 000° 30.0 NM					
PEBLI ▲ <u>161606N 1001736E</u>	181° 000° 59.0 NM					
TAKHLI NDB (TL) ▲ <u>151633N 1001751E</u>	169° 349° 84.0 NM			↑		
BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u>						
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
W10 ▲ <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 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
W12 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 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
W13 ▲ <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 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
W14					
▲ PHUKET DVOR/DME (PUT) 080655N 0981823E	115° 295°	FL 460 6 500 FT	10	↓	
▲ EPGOT 075416N 0984555E	30.0 NM	Class A 7 000 FT			
▲ TRANG DVOR/DME (TRN) 073032N 0993734E	57.0 NM				
▲ HAT YAI DVOR/DME (HTY) 065603N 1002316E	127° 307°				
▲ PATTANI NDB (PT) 064718N 1010853E	57.0 NM				
▲ NARATHIWAT DVOR/DME (NTW) 063138N 1014442E	101° 281°				
	46.0 NM			↑	
	114° 294°				
	39.0 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		
W15							
▲ CHIANG MAI DVOR/DME (CMA) 184558N 0985740E	120° 300°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.		
▲ KABMU 182739N 0993247E	38.0 NM	Class A 7 000 FT					
▲ PHRAE DVOR/DME (PAE) 180803N 1000958E	40.0 NM						
△ PANKU 172035N 1005606E	65.0 NM						
▲ BARCE 172245N 1011219E	16.0 NM						
▲ LOEI DVOR/DME (LOY) 172649N 1014323E	30.0 NM						
▲ SWENI 172555N 1015903E	15.0 NM						
▲ ESGIB 172458N 1021514E	16.0 NM						
▲ UDON DVOR/DME (UDN) 172304N 1024630E	30.0 NM						
▲ GULNO 171915N 1031735E	30.0 NM						
▲ SAKON NAKHON DVOR/DME (SKN) 171251N 1040812E	49.0 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
W16						
▲ <u>CHIANG MAI DVOR/DME (CMA)</u> 184558N 0985740E	127° 307°	FL 460 6 500 FT	(*)		↓	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.
▲ <u>ASAVI</u> 182326N 0992958E	38.0 NM	Class A 7 000 FT				
▲ <u>UTTAR</u> 174305N 1002706E	127° 307°					
▲ <u>CHUM PHAE DVOR/DME (CMP)</u> 163811N 1015905E	109.0 NM					
▲ <u>ONUVI</u> 163228N 1022655E	103° 283°					
▲ <u>KHON KAEN DVOR/DME (KKN)</u> 162815N 1024716E	27.0 NM					
	103° 283°				↑	
	20.0 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
W17 <u>RANONG DVOR/DME (RAN)</u> ▲ 094643N 0983502E <u>TOGIM</u> ▲ 092659N 0985148E <u>SURAT THANI DVOR/DME (STN)</u> ▲ 090746N 0990805E <u>EMVEL</u> ▲ 084438N 0992122E <u>HAT YAI DVOR/DME (HTY)</u> ▲ 065603N 1002316E	 $\frac{140^\circ}{320^\circ}$ 26.0 NM $\frac{140^\circ}{320^\circ}$ 25.0 NM $\frac{151^\circ}{331^\circ}$ 27.0 NM $\frac{151^\circ}{331^\circ}$ 124.0 NM	 $\frac{\text{FL 460}}{6\ 500\ \text{FT}}$ Class A 7 000 FT $\frac{\text{FL 460}}{7\ 500\ \text{FT}}$ Class A 8 000 FT	 10	 ↓ ↑	
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	
W19						
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	182° 002°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.	
△ <u>POLAK</u> 132106N 1003454E	32.0 NM	Class A 7 000 FT				
▲ <u>GUTSO</u> 124820N 1003454E	181° 001°					
▲ <u>REGOS</u> 120007N 1003454E	33.0 NM					
▲ <u>DIRAX</u> 110007N 1003248E	181° 001°					
▲ <u>TUSPU</u> 101948N 1003108E	48.0 NM					
▲ <u>UPNEP</u> 094213N 1002936E	182° 002°					
▲ <u>ROBDA</u> 092558N 1003511E	60.0 NM					
▲ <u>IDRUK</u> 082724N 1005513E	183° 003°					
▲ <u>ADNEP</u> 080344N 1010318E	40.0 NM					
▲ <u>NARATHIWAT DVOR/DME (NTW)</u> 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 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
W20					
▲ CHIANG MAI DVOR/DME (CMA)					
▲ 184558N 0985740E	037° 217°	FL 350 7 500 FT	10	↓	Longitudinal separation between aircraft 10 min.
▲ ADLUS	25.0 NM	Class A			
▲ 190610N 0991320E	037° 217°	8 000 FT			
▲ NUMDO	33.0 NM				
▲ 193243N 0993402E	037° 218°			↑	
▲ CHIANG RAI DVOR/DME (CTR)	30.0 NM				
▲ 195654N 0995300E					
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
W21 <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E <u>NOBER</u> ▲ 151636N 1004006E <u>CHUM PHAE DVOR/DME (CMP)</u> ▲ 163811N 1015905E <u>SURGU</u> ▲ 170158N 1022408E <u>UDON DVOR/DME (UDN)</u> ▲ 172304N 1024630E	 004° 184° 83.0 NM 044° 224° 111.0 NM 046° 227° 34.0 NM 047° 227° 30.0 NM	 FL 460 10 000 FT Class A 11 000 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.					

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
W22					
▲ PHITSANULOK DVOR/DME (PSL) 164613N 1001729E	356° 176°	FL 460 6 500 FT	10	↓	Longitudinal separation between aircraft 10 min.
▲ NIROP 171614N 1001444E	30.0 NM 356° 176°	Class A 7 000 FT			
▲ PHRAE DVOR/DME (PAE) 180803N 1000958E	52.0 NM 352° 172°				
▲ BENV 192707N 0995741E	80.0 NM 352° 172°			↑	
▲ CHIANG RAI DVOR/DME (CTR) 195654N 0995300E	30.0 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
W23 ▲ PHITSANULOK DVOR/DME (PSL) 164613N 1001729E ▲ POLOB 171309N 1000328E △ PIVUT 174644N 0994553E ▲ LAMPANG DVOR/DME (LPN) 181636N 0993008E	 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 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
W24 SURAT THANI DVOR/DME (STN) ▲ 090746N 0990805E IDNAR ▲ 084344N 0991524E BITEN ▲ 082659N 0992029E TRANG DVOR/DME (TRN) ▲ 073032N 0993734E	 164° 344° 25.0 NM 164° 344° 17.0 NM 164° 344° 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 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
W25 ▲ <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 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
W26					
▲ 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°				
▲ PHITSANULOK DVOR/DME (PSL) 164613N 1001729E	22.0 NM				
▲ GOKON 164301N 1004834E	098° 278°				
▲ PHETCHABUN DVOR/DME (PCB) 164034N 1011148E	60.0 NM				
▲ CHUM PHAE DVOR/DME (CMP) 163811N 1015905E	097° 277°				
	30.0 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
W27 ▲ PHITSANULOK DVOR/DME (PSL) 164613N 1001729E ▲ REMER 165935N 1004531E ▲ RIBDO 172014N 1012918E ▲ LOEI DVOR/DME (LOY) 172649N 1014323E	 065° 245° 30.0 NM 065° 245° 47.0 NM 065° 245° 15.0 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
W28					
▲ SURAT THANI DVOR/DME (STN) 090746N 0990805E	$\frac{126^\circ}{306^\circ}$ 25.0 NM	$\frac{FL\ 460}{8\ 500\ FT}$ Class A	10	↓	
▲ SEGRA 085300N 0992831E	$\frac{126^\circ}{306^\circ}$ 35.0 NM	9 000 FT			
▲ NAKHON SI THAMMARAT DVOR/DME (NKS) 083230N 0995649E	$\frac{165^\circ}{345^\circ}$ 100.0 NM	$\frac{FL\ 460}{7\ 500\ FT}$ Class A		↑	
▲ HAT YAI DVOR/DME (HTY) 065603N 1002316E		8 000 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
W29 ▲ PHITSANULOK DVOR/DME (PSL) 164613N 1001729E ▲ GOSTA 171557N 1002230E ▲ UTTAR 174305N 1002706E ▲ NAN DVOR/DME (NAN) 184833N 1004657E ▲ DUBEN 193249N 1001207E ▲ CHIANG RAI DVOR/DME (CTR) 195654N 0995300E	 010° 190° 30.0 NM 010° 190° 27.0 NM 017° 197° 68.0 NM 324° 144° 55.0 NM 324° 144° 30.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 8 500 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 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
W31					
▲ SUPOJ 101642N 1001220E	355° 175° 72.0 NM	FL 460 3 500 FT Class A 4 000 FT	10	↓	
▲ EGUBO 112838N 1000450E	354° 174° 34.0 NM				
△ UKERA 120207N 1000110E	354° 174° 36.0 NM				
▲ HUA HIN DVOR/DME (HHN) 123804N 0995704E	046° 226° 31.0 NM	FL 150 3 500 FT Class A 4 000 FT			
▲ HOTEL 130006N 1001948E	017° 197° 56.0 NM	FL 150 7 500 FT Class A 8 000 FT		↑	
▲ BANGKOK DVOR/DME (BKK) 135337N 1003546E					
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
W32					
REGOS ▲ <u>120007N 1003454E</u>	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
GOKEK ▲ <u>111815N 1002544E</u>	193° 013° 63.0 NM	4 000 FT		↑	
SUPOJ ▲ <u>101642N 1001220E</u>	191° 011° 15.0 NM			↓	
ENRAG ▲ <u>100223N 1000931E</u>	191° 011° 30.0 NM				
SAMUI DVOR/DME (SMU) ▲ <u>093249N 1000342E</u>	246° 066° 19.0 NM				
DORNA ▲ <u>092459N 0994614E</u>	246° 066° 16.0 NM				
ADLAL △ <u>091810N 0993106E</u>	246° 066° 9.0 NM				
VEGNA ▲ <u>091427N 0992251E</u>	246° 066° 16.0 NM				
SURAT THANI DVOR/DME (STN) ▲ <u>090746N 0990805E</u>	189° 009° 19.0 NM	FL 460 7 500 FT Class A			
TEDOS ▲ <u>084834N 0990507E</u>	189° 009° 6.0 NM	8 000 FT			
TAVAT ▲ <u>084257N 0990416E</u>	189° 009° 12.0 NM				
NULMA ▲ <u>083118N 0990228E</u>	189° 009° 3.0 NM				
LUXIR ▲ <u>082819N 0990200E</u>	189° 009° 7.0 NM				
SARER ▲ <u>082127N 0990057E</u>	189° 009° 15.0 NM			↑	
KRABI DVOR/DME (KBI) ▲ <u>080627N 0985839E</u>	133° 313° 28.0 NM			↓	
TUNRA ▲ <u>074737N 0991905E</u>	133° 313° 25.0 NM			↑	
TRANG DVOR/DME (TRN) ▲ <u>073032N 0993734E</u>					

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		
W33							
▲ PHUKET DVOR/DME (PUT) 080655N 0981823E	069° 249° 30.0 NM	FL 460 9 500 FT Class A	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	069° 249° 45.0 NM	10 000 FT					
▲ RECNO 083425N 0992825E	031° 211° 38.0 NM	FL 460 6 500 FT Class A					
▲ MESEM 090719N 0994816E	031° 211° 30.0 NM	7 000 FT					
▲ SAMUI DVOR/DME (SMU) 093249N 1000342E	070° 250° 15.0 NM						
△ VININ 093754N 1001740E	070° 250° 13.0 NM						
▲ UPNEP 094213N 1002936E	046° 226° 8.0 NM						
▲ MABKO 094809N 1003543E	046° 226° 103.0 NM						
▲ SURIX 105959N 1015015E	021° 201° 81.0 NM						
▲ TRAT NDB (TRT) 121628N 1021850E	310° 129° 48.0 NM						
▲ RAYONG DVOR/DME (RYN) 124648N 1014042E						↑	
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
W34 ▲ <u>MENEX</u> 110831N 0994543E ▲ <u>CHUM PHON DVOR/DME (CPN)</u> 104240N 0992156E ▲ <u>RANONG DVOR/DME (RAN)</u> 094643N 0983502E ▲ <u>IGEVI</u> 083640N 0982320E ▲ <u>PHUKET DVOR/DME (PUT)</u> 080655N 0981823E	 223° — 043° 35.0 NM 220° — 040° 72.0 NM 190° — 010° 71.0 NM 190° — 010° 30.0 NM	 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 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
W35					
▲ UPNEP 094213N 1002936E	206° 026°	FL 460 7 500 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 www.thaicmac.aerothai.aero
▲ PINUN 092825N 1002306E	15.0 NM 205° 025°	Class A 8 000 FT		↓	
▲ PAGLU 091549N 1001709E	14.0 NM 205° 025°				
NAKHON SI THAMMARAT DVOR/DME (NKS) ▲ 083230N 0995649E	48.0 NM 198° 018°				
▲ TRANG DVOR/DME (TRN) 073032N 0993734E	65.0 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
W36 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>	 $\frac{321^\circ}{141^\circ}$ 25.0 NM $\frac{321^\circ}{141^\circ}$ 10.0 NM $\frac{280^\circ}{100^\circ}$ 7.4 NM $\frac{280^\circ}{100^\circ}$ 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 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
W38					
▲ <u>RAMEI</u>					
▲ 150240N 1030040E	052° 232°	FL 460 6 500 FT	(*)	↓	Longitudinal separation between aircraft 10 min. (*) For width of airways, see ENR 2.1-1.
▲ <u>BURI RAM DVOR/DME (BRM)</u>	19.0 NM	Class A			
▲ 151422N 1031532E	030° 210°	7 000 FT			
▲ <u>ANKID</u>	30.0 NM				
▲ 154049N 1033057E	030° 210°			↑	
▲ <u>ROI-ET DVOR/DME (ROT)</u>	30.0 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
W39 ▲ NOBER 151636N 1004006E ▲ PHETCHABUN DVORDME (PCB) 164034N 1011148E ▲ DUBOL 171004N 1013154E ▲ LOEI DVORDME (LOY) 172649N 1014323E	 021° 201° 89.0 NM 034° 214° 35.0 NM 034° 214° 20.0 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 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
W40 ▲ 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 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	
W42						
▲ 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° 235° 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° 5.0 NM	FL 460 FL 155 Class A FL 160				
▲ NUGPA 130254N 1014959E	030° 210° 13.0 NM					
▲ BERLU 131350N 1015620E	030° 210° 35.0 NM	FL 460 FL 205 Class A FL 210				
▲ DULEM 134416N 1021400E	030° 210° 9.0 NM					
▲ ANREN 135212N 1021838E	030° 210° 35.0 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 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
W43 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
W44 <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 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
W650 ▲ <u>HAT YAI DVOR/DME (HTY)</u> 065603N 1002316E ▲ <u>POPID</u> 062908N 1003212E	 $\frac{162^\circ}{342^\circ}$ 28.0 NM	 $\frac{FL\ 145}{10\ 500\ FT}$ 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 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
W94 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 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
W99					
▲ SAMUI DVOR/DME (SMU)					
▲ 093249N 1000342E	030° 210°	FL 460 4 500 FT	10	↓	Uni-directional route (northbound)
▲ OLBAG	30.0 NM	Class A			
▲ 095849N 1001852E	030° 210°	5 000 FT			
△ APUSA	2.0 NM				
△ 100057N 1002007E	031° 211°	FL 460 6 500 FT			
▲ DONSI	8.0 NM	Class A			
▲ 100738N 1002401E	031° 211°	7 000 FT			
▲ TUSPU	14.0 NM				
For flight planning procedure, see ENR 1.10.					

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