

ENR 3. ATS ROUTES

ENR 3.1 ATS ROUTES – INTERNATIONAL

Route designator Name of significant Points Coordinates (WGS-84)	Track MAG(GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification (Refer to ENR 1.4-1)		Lateral limits NM	Direction of Cruising levels		Remarks Controlling units Frequency
		Odd	Even				
1	2	3		4	5		6
A1 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ SELKA 142135.9N 1015947.5E ▲ PASAT 145507.93N 1034728.55E ▲ UBON DVOR/DME (UBL) 151442.71N 1045157.30E ▲ BUTRA 152505.8N 1053545.9E	071 251 86 NM 072 253 109 NM 072 253 65 NM 076 256 44 NM	FL 460 FL 75 FL 80 FL 460 FL 95 FL 100		*	↓ ↑	Longitudinal separation between aircraft 10 mins.	
Note : 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.							
A202 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ KORAT DVOR/DME (KRT) 145502.35N 1020823.32E ▲ RAMEI 150103.57N 1025940.72E ▲ OKENA 161608.19N 1042532.75E ▲ SUVANNAKHET DVOR/DME (SAV) 163342.0N 1044556.0E	056 236 109 NM 083 263 50 NM 048 228 112 NM 048 228 26 NM	FL 460 FL 65 FL 70 FL 460 FL 125 FL 130 FL 460 FL 65 FL 70		*	↓ ↑	10 mins longitudinal separation between aircraft applying Mach Number Technique	
A334 ▲ HAT YAI DVOR/DME (HTY) 065602.75N 1002316.47E ▲ PASVA 061529N 1020431E ▲ KOTA BHARU VOR/DME (VKB) 060948.3N 1021851.1E	112 292 108 NM 112 292 15 NM	FL 460 FL 95 FL 100		20	↓ ↑	10 mins longitudinal separation between RNAV- equipped aircraft apply Mach Number Technique. 15 mins longitudinal separation between other aircraft	
* For the width of airways see ENR 2.1-1.							

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				Odd	Even	
1	2	3	4	5		6
A581 ▲ BOMAS 172304.8N 980549.1E ▲ TATEL 172904.8N 984548.8E ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 985740.55E ▲ CHIANG RAI DVOR/DME (CTR) 195653.65N 995300.12E ▲ PONUK 201858.1N 1002305.8E	<u>081</u> 261 39 NM	<u>FL 460</u> FL 105 FL 110 Class A (FL290 and above)	10	↑		Longitudinal separation between aircraft 10 mins.
	<u>008</u> 188 77 NM	<u>FL 350</u> FL 075 FL 080 Class A (FL290 and above)				
	<u>036</u> 217 88 NM	<u>FL 460</u> FL 120 FL 130 Class A (FL290 and above)		↓		
	<u>052</u> 232 36 NM					
B202 ▲ UBON DVOR/DME (UBL) 151442.71N 1045157.30E ▲ PAKSE VOR (PAK) 151148N 1054417E	<u>093</u> 273 51 NM	<u>FL 460</u> FL 260 FL 270	*	↓	↑	Longitudinal separation between aircraft 15 mins.
	B204 ▲ GOMES 132406.1N 1013505.7E ▲ AGEDO 132419.4N 1022138.6E	<u>090</u> 270 45 NM	<u>FL 460</u> FL 135 FL 140	*	↓	↑
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				Odd	Even	
1	2	3	4	5		6
B205 ▲ RAYONG DVOR/DME (RYN) 124648.3N 1014041.7E ▲ BOKAK 125736.3N 1022947.3E	<u>077</u> 257 49 NM	<u>FL 460</u> FL 155 FL 160	*	↓	↑	Longitudinal separation between aircraft 10 mins.
B218 ▲ VIENTIANE DVOR/DME (VTN) 180018N 1023224E ▲ LOEI VOR/DME (LOY) 172649.38N 1014323.12E ▲ CHUM PHAE DVOR/DME (CMP) 163811.3N 1015905.4E	<u>234</u> 054 57 NM <u>163</u> 343 51 NM	<u>FL 460</u> FL 35 FL 40 <u>FL 460</u> FL 65 FL 70	20	↑	↓	Longitudinal separation between aircraft 10 mins.
B346 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ NOBER 151635.6N 1004006.0E ▲ PETCHABUN DVOR/DME (PCB) 164033.66N 1011148.12E ▲ YAKUA 174414.79N 1013051.65E	<u>003</u> 183 83 NM <u>020</u> 200 89 NM <u>016</u> 196 66 NM	 <u>FL 460</u> FL 100 FL 110	20	↓	↑	Longitudinal separation between aircraft 15 mins.
B460 ▲ KORAT DVOR/DME (KRT) 145502.35N 1020823.32E ▲ ROIET DVOR/DME (ROT) 160700.59N 1034619.45E ▲ SAVANNAKHET VOR/DME (SAV) 163342.0N 1044556.0E	<u>053</u> 233 119 NM <u>065</u> 245 63 NM	 <u>FL 460</u> FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
B579 ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E ▲ DALAN 062808N 993920E	<u>141</u> 321 127 NM	<u>FL 460</u> FL 95 FL 100	20	↓	↑	Longitudinal separation between aircraft 10 mins.
*For the width of Airways see ENR 2.1-1						

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				Odd	Even	
1	2	3	4	5		6
G331 ▲ PADET 100006.9N 981719.3E ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E	179 359	FL 460 FL 95 FL 100	10	↓	↑	Longitudinal separation between aircraft 10 mins.
	113 NM					
G458 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ HOTEL 130006.2N 1001948.3E ▲ UKERA 120207.25N 1000109.59E ▲ MENEX 110830.7N 994542.6E ▲ APRIL 110006.7N 994306.7E ▲ SURAT DVOR/DME (STN) 090746.24N 990805.09E ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E	196 016 56 NM	FL 460 FL 75 FL 80	10	↓		Longitudinal separation between aircraft 10 mins.
	198 018 61 NM	FL 460 FL 70 FL 80				
	196 016 55 NM					
	197 017 9 NM					
	197 017 117 NM			↑		
	219 039 78 NM	FL 460 FL 65 FL 70				
G463 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ BETNO 150553.5N 981231.2E	298 117 157 NM	FL 460 FL 95 FL 100	*	↑	↓	Longitudinal separation between aircraft 10 mins.
G473 ▲ MAKAS 164947.0N 982948.9E ▲ PHITSANULOK DVOR/DME (PSL) 164613.34N 1001728.70E ▲ CHUM PHAE DVOR/DME (CMP) 163811.3N 1015905.4E ▲ UBON DVOR/DME (UBL) 151442.71N 1045157.30E	092 272 103 NM	FL 460 FL 90	*	↓		Longitudinal separation between aircraft 15 mins.
	094 275 98 NM	FL 100				
	116 297 186 NM			↑		
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				Odd	Even	
1	2	3	4	5		6
G474 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E △ BATOK 135606.0N 1015353.6E ▲ MENAM 135724.1N 1024729.2E	<u>088</u> 268 76 NM	<u>FL 460</u> FL 95 FL 100	*	↓	↑	10 mins longitudinal separation between aircraft applying Mach Number Technique.
	<u>088</u> 269 52 NM					
R201 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ U-TAPAO DVOR/DME (BUT) 124006.3N 1005948.0E	<u>162</u> 342 77 NM	<u>FL 460</u> FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins. Excluding area of VTP7
R203 ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E ▲ SAPAM 080434N 973300E	<u>268</u> 088 45 NM	<u>FL 460</u> FL 95 FL 100	*	↓	↑	Longitudinal separation between aircraft 10 mins.
R207 ▲ SISUK 194804.1N 980242.9E ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 985740.55E ▲ NAN DVOR/DME (NAN) 184832.76N 1004657.31E ▲ ANBOK 183634.6N 1011247.6E	<u>140</u> 320 81 NM	<u>FL 460</u> FL 80 FL 90	20	↓	↑	Longitudinal separation between aircraft 15 mins.
	<u>088</u> 269 104 NM					
	<u>116</u> 296 27 NM					
R215 ▲ CHIANG RAI DVOR/DME (CTR) 195653.65N 995300.12E ▲ NAN DVOR/DME (NAN) 184832.76N 1004657.31E ▲ TOMIP 191104.5N 1011547.5E	<u>143</u> 323 85 NM	<u>FL 460</u> FL 95 FL 100	*	↓	↑	Longitudinal separation between aircraft 15 mins.
	<u>051</u> 231 35 NM					

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				Odd	Even	
1	2	3	4	5		6
R325 ▲ IKULA 100006.9N 972114.0E ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E ▲ UTHAI 070007.7N 992948.9E ▲ DUBAX 062555.9N 1000736.6E	<u>153</u> <u>333</u> 126 NM <u>134</u> <u>313</u> 97 NM <u>132</u> <u>312</u> 51 NM	<u>FL 270</u> FL 90 FL 100 <u>FL 460</u> FL 95 FL 100	*	↓	↑	Longitudinal separation between aircraft 10 mins.
R334 ▲ RAYONG DVOR/DME (RYN) 124648.3N 1014041.7E ▲ KOH KONG 1136.9N 10300.0E ▲ PHNOM PENH VOR (PNH) 1132.8N 10450.5E	<u>132</u> <u>312</u> 103 NM <u>092</u> <u>272</u> 109 NM	<u>FL 460</u> FL 165 FL 170	20	↓	↑	Longitudinal separation between aircraft 10 mins.
R345 ▲ ROIET DVOR/DME (ROT) 160700.59N 1034619.45E ▲ GRASO 150650.28N 1034716.84E ▲ PASAT 145507.93N 1034728.55E ▲ BIDEM 142153.57N 1034750.07E	<u>180</u> <u>360</u> 60 NM <u>180</u> <u>360</u> 12 NM <u>180</u> <u>360</u> 33 NM	<u>FL 460</u> FL 215 FL 220		↓	↑	
R468 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E Δ GOMES 132406.1N 1013505.7E ▲ BOKAK 125736.3N 1022947.3E ▲ PHNOM PENH VOR (PNH) 1132.8N 10450.5E	<u>117</u> <u>297</u> 65 NM <u>116</u> <u>296</u> 60 NM <u>121</u> <u>302</u> 161 NM	<u>FL 460</u> FL 75 FL 80	*	↓	↑	Longitudinal separation between aircraft 10 mins for inbound traffic. Longitudinal separation between aircraft 10 mins for outbound traffic.
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				Odd	Even	
1	2	3	4	5		6
R470 ▲ VIENTIANE VOR/DME (VTN) 180037N 1023226E ▲ UDON DVOR/DME (UDN) 172304.20N 1024630.05E ▲ ROI ET DVOR/DME (ROT) 160700.59N 1034619.45E ▲ UBON DVOR/DME (UBL) 151442.71N 1045157.30E	339 159 40 NM 143 323 95 NM 129 309 82 NM	FL 460 FL 35 FL 40 FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
R474 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ ALBOS 144441.7N 1010141.9E ▲ CHUM PHAE DVOR/DME (CMP) 163811.3N 1015905.4E ▲ VIENTIANE VOR/DME (VTN) 180037N 1023226E	026 206 57 NM 026 206 126 NM 021 201 88 NM	FL 460 FL 65 FL 70 FL 460 FL 35 FL 40	*	↓	↑	Longitudinal separation between aircraft 15 mins.
R575 ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E ▲ RECNO 083425.3N 992824.9E ▲ SAMUI VOR/DME (SMU) 093249.47N 1000342.27E ▲ UPNEP 094213.1N 1002936.4E Δ EMELA 101249.19N 1010729.14E ▲ ALUMO 104553.89N 1015122.86E Δ ANOBO 110323.01N 1021441.61E ▲ KOH KONG 113700.7N 1025947.2E	068 248 75 NM 031 211 68 NM 070 250 27 NM 051 231 48 NM 053 233 54 NM 053 233 29 NM 053 233 55 NM	FL 460 FL 90 FL 95 FL 460 FL 65 FL 460 FL 155 FL 160		↓	↑	
*For the width of Airways see ENR 2.1-1						

ENR 3.1 ATS ROUTES-DOMESTIC

Route designator Name of significant Points Coordinates (WGS-84)	Track MAG(GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification (Refer to ENR 1.4-1)	Lateral limits NM	Direction of Cruising levels		Remarks Controlling units Frequency
				Odd	Even	
1	2	3	4	5		6
W1 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ KHORAT DVOR/DME (KRT) 145502.35N 1020823.32E Δ RAMEI 150103.57N 1025940.72E Δ RAMBU 150351.24N 1032316.32E ▲ GRASO 150650.28N 1034716.84E ▲ UBON DVOR/DME (UBL) 151442.71N 1045157.30E	056 236 109 NM 083 263 50 NM 083 263 23 NM 083 263 23 NM 083 263 63 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins. (RAMEI on request for W1)
W4 ▲ UDON DVOR/DME (UDN) 172304.20N 1024630.05E ▲ ROIET DVOR/DME (ROT) 160700.59N 1034619.45E ▲ UBON DVOR/DME (UBL) 151442.71N 1045157.30E	143 323 95 NM 129 309 82 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W5 ▲ UDON DVOR/DME (UDN) 172304.20N 1024630.05E ▲ KHON KHEN DVOR/DME (KKN) 162814.73N 1024716.07E ▲ ROIET DVOR/DME (ROT) 160700.59N 1034619.45E ▲ UBON DVOR/DME (UBL) 151442.71N 1045157.30E	180 360 55 NM 110 290 61 NM 129 309 82 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation Between aircraft 10 mins.
W6 ▲ KORAT DVOR/DME (KRT) 145502.35N 1020823.32E ▲ KHON KAEN DVOR/DME (KKN) 162814.73N 1024716.07E ▲ SAKON NAKHON DVOR/DME (SKN) 171250.89N 1040812.34E ▲ NAKHON PHANOM DVOR/DME (NKP) 172317.87N 1043818.01E	022 202 100 NM 060 240 89 NM 070 250 31 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
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				Odd	Even	
1	2	3	4	5		6
W7 ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 0985740.55E ▲ MAE SOT DVOR/DME (MST) 164155.27N 0983231.58E	191 011 126 NM	FL 460 FL 80 FL 90	*	↓	↑	Longitudinal separation Between aircraft 10 mins.
W8 ▲ TAKHLI NDB (TL) 151608.09N 1001751.05E ▲ KORAT DVOR/DME (KRT) 145502.35N 1020823.32E	101 281 109 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation Between aircraft 10 mins.
W9 ▲ MAE HONG SON DVOR/DME (MHS) 191910.73N 0975443.50E ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 0985740.55E △ SARIM 173029.97N 0994737.09E ▲ PHITSANULOK DVOR/DME (PSL) 164613.34N 1001728.70E ▲ TAKHLI NDB (TL) 151608.09N 1001751.05E ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E	119 299 68 NM 147 327 89 NM 147 327 53 NM 180 360 90 NM 168 348 84 NM	FL 460 FL 85 FL 90 FL 460 FL 65 FL 70	*	↓	↑	Excluding restricted area VTR 5. Longitudinal separation Between aircraft 10 mins.
W10 ▲ KAMPHAENG SAEN DVOR/DME (KPS) 140956.0N 0995715.0E ▲ VUTHI 145006.95N 0995725.34E ▲ TAKHLI NDB (TL) 151608.09N 1001751.05E	360 180 40 NM 037 217 33 NM	FL 260 FL 55 FL 60	*	↓	↑	For Military use only.
W12 ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 0985740.55E ▲ NAN DVOR/DME (NAN) 184832.76N 1004657.31E	088 268 104 NM	FL 460 FL 70 FL 80	*	↓	↑	Longitudinal separation Between aircraft 10 mins.
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				Odd	Even	
1	2	3	4	5		6
W13 ▲ LAMPANG DVOR/DME (LPN) 181636.75N 993008.64E ▲ PHRAE DVOR/DME (PAE) 180802.78N 1000958.35E	103 283 39 NM	FL 460 FL 60 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W14 ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E ▲ TRANG DVOR/DME (TRN) 073032.17N 993733.67E ▲ HAT YAI DVOR/DME (HTY) 065602.75N 1002316.47E ▲ PATTANI NDB (PT) 064718.45N 1010852.51E ▲ NARATHIWAT DVOR/DME (NTW) 063138.24N 1014442.48E	115 295 87 NM 127 307 57 NM 101 281 46 NM 114 294 39 NM	FL 460 FL 65 FL 70	10	↓	↑	Longitudinal separation between aircraft 10 mins.
W15 ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 0985740.55E ▲ PHRAE DVOR/DME (PAE) 180802.78N 1000958.35E △ DELTA 172035.0N 1005605.8E ▲ LOEI DVOR/DME (LOY) 172649.38N 1014323.12E ▲ UDON DVOR/DME (UDN) 172304.20N 1024630.05E ▲ SAKON NAKHON DVOR/DME (SKN) 171250.89N 1040812.34E	119 299 78 NM 137 317 65 NM 082 262 45 NM 094 274 61 NM 097 277 79 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W16 ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 0985740.55E ▲ UTTAR 174304.9N 1002706.0E ▲ CHUM PHAE DVOR/DME (CMP) 163811.3N 1015905.4E ▲ KHON KAEN DVOR/DME (KKN) 162814.73N 1024716.07E	126 306 106 NM 126 306 109 NM 102 282 47 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
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1	2	3	4	5		6
W17 ▲ RANONG DVOR/DME (RAN) 094643.18N 983502.11E ▲ SURAT DVOR/DME (STN) 090746.24N 990805.09E ▲ HAT YAI DVOR/DME (HTY) 065602.75N 1002316.47E	<u>140</u> 320 51 NM	<u>FL 460</u> FL 65 FL 70	10	↓		Longitudinal separation between aircraft 10 mins.
	<u>150</u> 330 151 NM	<u>FL 460</u> FL 75 FL 80				
W19 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E △ POLAK 132106.1N 1003454.2E ▲ REGOS 120006.5N 1003454.3E △ DIRAX 110006.7N 1003248.3E ▲ UPNEP 094213.1N 1002936.4E △ ADNEP 080343.5N 1010318.2E ▲ NARATHIWAT DVOR/DME (NTW) 063138.24N 1014442.48E	<u>182</u> 002 32 NM	<u>FL 460</u> FL 65 FL 70	*	↓		Longitudinal separation between aircraft 10 mins.
	<u>180</u> 360 81 NM					
	<u>182</u> 002 60 NM					
	<u>182</u> 002 78 NM					
	<u>161</u> 341 104 NM					
	<u>156</u> 336 100 NM				↑	
W20 ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 985740.55E ▲ CHIANG RAI DVOR/DME (CTR) 195653.65N 995300.12E	<u>036</u> 216 88 NM	<u>FL 350</u> FL 75 FL 80	10	↓	↑	Longitudinal separation between aircraft 10 mins.
W21 ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E ▲ NOBER 151635.6N 1004006.0E ▲ CHUM PHAE DVOR/DME (CMP) 163811.3N 1015905.4E ▲ UDON DVOR/DME (UDN) 172304.20N 1024630.05E	<u>003</u> 183 83 NM	<u>FL 460</u> FL 100 FL 110	10	↓	↑	Longitudinal separation between aircraft 10 mins.
	<u>043</u> 223 111 NM	<u>FL 460</u> FL 65 FL 70				
	<u>046</u> 226 64 NM					

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				Odd	Even	
1	2	3	4	5		6
W22 ▲ PHITSANULOK DVOR/DME (PSL) 164613.34N 1001728.70E ▲ PHRAE DVOR/DME (PAE) 180802.78N 1000958.35E ▲ CHIANG RAI DVOR/DME (CTR) 195653.65N 995300.12E	355 175 82 NM 352 172 110 NM	FL 460 FL 65 FL 70	10	↓	↑	Longitudinal separation between aircraft 10 mins.
W23 ▲ PHITSANULOK DVOR/DME (PSL) 164613.34N 1001728.70E △ PIVUT 174644.25N 0994552.95E ▲ LAMPANG DVOR/DME (LPN) 181636.75N 993008.64E	333 153 68 NM 333 153 33 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W24 ▲ SURAT DVOR/DME (STN) 090746.24N 990805.09E ▲ TRANG DVOR/DME (TRN) 073032.17N 993733.67E	163 343 101 NM	FL 460 FL 90 FL 100	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W25 ▲ SUKHOTHAI NDB 171412.0N 994907.3E ▲ PHRAE DVOR/DME (PAE) 180802.78N 1000958.35E ▲ NAN DVOR/DME (NAN) 184832.76N 1004657.31E	021 201 57 NM 041 221 54 NM	FL 460 FL 65 FL 90 FL 460 FL 80 FL 90	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W26 ▲ MAE SOT DVOR/DME (MST) 164155.27N 983231.58E ▲ TAK NDB (TK) 165358.24N 991507.91E ▲ PHITSANULOK DVOR/DME (PSL) 164613.34N 1001728.70E ▲ PHETCHABUN DVOR/DME (PCB) 164033.66N 1011148.12E ▲ CHUM PHAE DVOR/DME (CMP) 163811.3N 1015905.4E	074 254 43 NM 097 277 60 NM 096 276 52 NM 093 273 45 NM	FL460 FL65 FL70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
*For the width of Airways see ENR 2.1-1						

ENR 3.1 ATS ROUTES-DOMESTIC

Route designator Name of significant points Coordinates (WGS-84)	Track MAG(GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification (Refer to ENR 1.4-1)	Lateral limits NM	Direction of Cruising levels		Remarks Controlling units Frequency
				Odd	Even	
1	2	3	4	5		6
W27 ▲ PHITSANULOK DVOR/DME (PSL) 164613.34N 1001728.70E ▲ LOEI DVOR/DME (LOY) 172649.38N 1014323.12E	<u>063</u> 243 91 NM	<u>FL 460</u> FL 60 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W28 ▲ SURAT DVOR/DME (STN) 090746.24N 990805.09E ▲ NAKHON SI DVOR/DME (NKS) 083229.95N 995648.67E ▲ HAT YAI DVOR/DME (HTY) 065602.75N 1002316.47E	<u>126</u> 306 60 NM <u>165</u> 345 100 NM	<u>FL 460</u> FL 80 FL 90 <u>FL 460</u> FL 75 FL 80	10	↓	↑	Longitudinal separation between aircraft 10 mins.
W29 ▲ PHITSANULOK DVOR/DME (PSL) 164613.34N 1001728.70E ▲ UTTAR 174304.9N 1002706.0E ▲ NAN DVOR/DME (NAN) 184832.76N 1004657.31E ▲ CHIANG RAI DVOR/DME (CTR) 195653.65N 995300.12E	<u>009</u> 189 57 NM <u>016</u> 196 68 NM <u>323</u> 143 85 NM	<u>FL 460</u> FL 95 FL 100	10	↓	↑	Longitudinal separation between aircraft 10 mins.
W31 ▲ SUPOJ 101642.14N 1001220.33E Δ UKERA 120207.25N 1000109.59E ▲ HUA HIN DVOR/DME (HHN) 123804.04N 995704.23E ▲ HOTEL 1300.0N 10020.0E ▲ BANGKOK DVOR/DME (BKK) 135336.8N 1003546.3E	<u>354</u> 174 105 NM <u>354</u> 174 36 NM <u>045</u> 225 31 NM <u>016</u> 196 56 NM	<u>FL 460</u> FL 35 FL 40 <u>FL 150</u> FL 35 FL 40 <u>FL 150</u> FL 75 FL 80	10	↓	↑	Longitudinal separation between aircraft 10 mins
*For the width of Airways see ENR 2.1-1						

ENR 3.1 ATS ROUTES-DOMESTIC

Route designator Name of significant Points Coordinates (WGS-84)	Track MAG(GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification (Refer to ENR 1.4-1)	Lateral limits NM	Direction of Cruising levels		Remarks Controlling units Frequency
				Odd	Even	
1	2	3	4	5		6
W32 ▲ REGOS 120006.5N 1003454.3E ▲ SUPOJ 101642.14N 1001220.33E ▲ SAMUI DVOR/DME (SMU) 093249.47N 1000342.27E ▲ SURAT DVOR/DME (STN) 090746.24N 0990805.09N ▲ KRABI DVOR/DME (KBI) 080627.19N 0985839.07E ▲ TRANG DVOR/DME (TRN) 073032.17N 993733.67E	192 012 105 NM 191 011 45 NM 246 066 60 NM 189 009 62 NM 133 313 62 NM	FL 460 FL 35 FL 40 FL 460 FL 75 FL 80	10	↓ ↑ ↓	↑ ↓	Longitudinal separation between aircraft 10 mins.
W33 ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E ▲ RECNO 083425.3N 992824.9E ▲ SAMUI DVOR/DME (SMU) 093249.47N 1000342.27E ▲ UPNEP 094213.1N 1002936.4E ▲ SURIX 10595908N 1015014.56E ▲ TRAT NDB/DME(TRT) 121628.10N 1021850.08E ▲ RAYONG DVOR/DME(RYN) 124648.3N 1014041.7E	068 248 75 NM 031 211 68 NM 070 250 27 NM 045 225 111 NM 020 200 82 NM 309 129 48 NM	FL 460 FL 90 FL 100 FL 460 FL 65 FL 70	10	↓ ↓	↑	Longitudinal separation between aircraft 10 mins.
W34 ▲ MENEX 110830.7N 994542.6E ▲ CHUMPHON DVOR/DME (CPN) 104240.21N 992156.03E ▲ RANONG DVOR/DME (RAN) 094643.18N 983502.11E ▲ PHUKET DVOR/DME (PUT) 080654.83N 981822.69E	222 042 35 NM 220 040 72 NM 189 009 101 NM	FL 460 FL 65 FL 70	10	↓ ↑	↓	Longitudinal separation between aircraft 10 mins.
*For the width of Airways see ENR 2.1-1						

ENR 3.1 ATS ROUTES-DOMESTIC

Route designator Name of significant points Coordinates (WGS-84)	Track MAG(GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification (Refer to ENR 1.4-1)	Lateral limits NM	Direction of Cruising levels		Remarks Controlling units Frequency
				Odd	Even	
1	2	3	4	5		6
W35 ▲ UPNEP 094213.1N 1002936.4E ▲ NAKHON SI DVOR/DME (NKS) 083229.95N 995648.67E ▲ TRANG DVOR/DME (TRN) 073032.17N 993733.67E	205 025 77 NM 197 017 65 NM	FL 460 FL 75 FL 80	10	↓	↑	Longitudinal separation between aircraft 10 mins.
W36 ▲ CHIANG MAI DVOR/DME (CMA) 184558.03N 0985740.55E ▲ MACHI 191222.3N 0983506.7E ▲ MAE HONG SON DVOR/DME (MHS) 191910.73N 0975443.50E	321 141 34 NM 280 100 39 NM	FL 460 FL 80 FL 90	10	↓	↑	Longitudinal separation between aircraft 10 mins.
W38 ▲ RAMEI 150103.57N 1025940.72E ▲ BURI RUM DVOR/DME (BRM) 151422.43N 1031531.59E ▲ ROIET DVOR/DME (ROT) 160700.59N 1034619.45E	050 230 20 NM 029 209 60 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W39 ▲ NOBER 151635.6N 1004006.0E ▲ PHETCHABUN DVOR/DME (PCB) 164033.66N 1011148.12E ▲ LOEI VOR/DME (LOY) 172649.38N 1014323.12E	020 200 89 NM 033 213 55 NM	FL 460 FL 65 FL 70	*	↓	↑	Longitudinal separation between aircraft 10 mins.
W40 ▲ PHRAE DVOR/DME (PAE) 180802.78N 1000958.35E ▲ PHETCHABUN DVOR/DME (PCB) 164033.66N 1011148.12E	146 326 105 NM	FL 460 FL 65 FL 70	10	↓	↑	Longitudinal separation between aircraft 10 mins.
*For the width of Airways see ENR 2.1-1						

ENR 3.1 ATS ROUTES-DOMESTIC

Route designator Name of significant points Coordinates (WGS-84)	Track MAG(GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification (Refer to ENR 1.4-1)	Lateral limits NM	Direction of Cruising levels		Remarks Controlling units Frequency
				Odd	Even	
1	2	3	4	5		6
W42 ▲ MENEX 110830.7N 0994542.6E ▲ REGOS 120006.5N 1003454.3E ▲ RAYONG DVOR/DME (RYN) 124648.3N 1014041.7E ▲ TOPER 143505.9N 1024347.2E ▲ RAMEI 150103.57N 1025940.72E	043 223 71 NM 054 234 79 NM 029 209 124 NM 031 211 30 NM	FL 460 FL 285 FL 290	20	↓	↑	Longitudinal separation between aircraft 10 mins.
W43 ▲ CHUM PHARE DVOR/DME (CMP) 163811.3N 1015905.4E ▲ OKENA 161608.19N 1042532.75E	098 278 142 NM	FL 460 FL 65 FL 70	20	↓	↑	Longitudinal separation between aircraft 10 mins.
W650 ▲ HAT YAI DVOR/DME (HYT) 065602.75N 1002316.47E ▲ POPID 062907.9N 1003212.4E	162 342 28 NM	FL 145 FL 105 FL 110	10	↓	↑	Longitudinal separation between aircraft 10 mins.
*For the width of Airways see ENR 2.1-1						