

ENR 3 ATS ROUTES

3.1 Domestic ATS Routes

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			6
<u>W11</u>								
▲ <u>"BND" VOR/DME</u> 065255.5S 1073044.4E	305	71.8	<u>FL 600</u> 9 000 ft	A, C	10		↓	Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>"CKG" VOR/DME</u> 061116.4S 1063147.8E	310	70.6						
▲ <u>RIMTI</u> 052525S 1053747E	290	27.8						For south bound Flight, after "TKG" VOR joint W19.
▲ <u>"TKG" VOR/DME</u> 051537.2S 1051138.9E	<u>310</u> 131	51.3	<u>FL 600</u> 7 000 ft				↓	Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>ALADO</u> 044150S 1043251E	<u>312</u> 132	195.0						
▲ <u>NONAP</u> 023010S 1020826E	<u>312</u> 133	151.7	<u>FL 600</u> FL 145					Pekanbaru APP, Jakarta ACC (See ENR 2.1)
▲ <u>"MKB" VOR/DME</u> 004713.2S 1001641.6E	<u>339</u> 159	143.2	<u>FL 600</u> 11 500 ft					
▲ <u>NOKEL</u> 012712N 0992536E	<u>338</u> 159	132.0	<u>FL 600</u> 9 500 ft					
▲ <u>"MDN" VOR/DME</u> 033016.4N 0983627.9E	<u>328</u> 149	124.0						Medan APP, Jakarta ACC (See ENR 2.1)
▲ <u>DUAMO</u> 051558N 0973041E	<u>278</u> 098	126.0	<u>FL 600</u> 10 000 ft			↑		
▲ <u>"BAC" VOR/DME</u> 053121.5N 0952520.3E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	3	4	5	5	6	6
<u>W12</u>								
▲ <u>"CKG" VOR/DME</u> 061116.4S 1063147.8E		73.0						
▲ <u>DOLTA</u> 050734S 1055530E	330	83.0	<u>FL 600</u> 6 000 ft				↓	Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>GUSKO</u> 035508S 1051418E		71.4						Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>"PLB" VOR/DME</u> 025242.9S 1043911.4E	<u>320</u> 141	95.8					↓	
▲ <u>"JMB" VOR/DME</u> 013809.6S 1033842.2E		42.1	<u>FL 600</u> 10 000 ft	A, C	10			Jambi APP, Palembang APP, Jakarta ACC (See ENR 2.1 and WIJJ AD 2.18)
▲ <u>KUALA</u> 010838S 1030836E	<u>314</u> 134	67.9						
▲ <u>"AD" NDB</u> 002056.9S 1022008.6E	<u>311</u> 131	70.9						Pekanbaru APP, Jakarta ACC (See ENR 2.1)
▲ <u>"PKU" VOR/DME</u> 002532.1N 1012629.8E	<u>317</u> 137	123.6	<u>FL 600</u> 9 500 ft					
▲ <u>MEDIA</u> 015642N 1000244E	<u>317</u> 138	127.0					↑	Medan APP, Jakarta ACC (See ENR 2.1)
▲ <u>"MDN" VOR/DME</u> 033016.4N 0983627.9E								
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	<u>Upper</u> Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	3	4	5	5	6	6
W12 CONT								
▲ <u>"MDN" VOR/DME</u> 033016.4N 0983627.9E								
▲ <u>JILAT</u> 042432N 0971123E	303 123	100.7 125.0	FL 600 11 500 ft	A, C	10		↓	Medan APP, Banda Aceh APP, Jakarta ACC (See ENR 2.1 and WITT AD 2.18)
▲ <u>"BAC" VOR/DME</u> 053121.5N 0952520.3E						↑		
W12E								
▲ <u>"PLB" VOR/DME</u> 025242.9S 1043911.4E								
▲ <u>BORAS</u> 033638S 1053116E	130	68.0 40.0	FL 600 6 000 ft	A, C	10	↓		Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>BIDAK</u> 040229S 1060155E		56.4				↓		
▲ <u>BIKAL</u> 045244S 1062806E	152 332	73.0					↑	Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	3	4	5	5	6	6
W13								
▲ <u>"BLI" VOR/DME</u> 084502.1S 1150947.9E	313 133	212.9				↑	↓	Ujung Pandang FIR, Bali APP, Surabaya APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>SIPUT</u> 061700S 1123500E		88.6					↓	
▲ <u>CUCUT</u> 061742S 1110600E		42.8	FL 600 11 500 ft					
▲ <u>MADIN</u> 061754S 1102300E	269	63.1		A, C	10			
▲ <u>KIDET</u> 061803S 1091937E		59.0						Jakarta FIR, Semarang APP, Jakarta APP, Jakarta ACC (See ENR 2.1 and WAHS AD 2.18)
▲ <u>"IMU" VOR/DME</u> 061815.1S 1082020.4E	283	22.6						
▲ <u>KIMON</u> 061245S 1075822E	284	58.0	FL 600 6 000 ft					
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			6
<u>W14</u>								
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E								
▲ <u>ABASA</u> 045652S 1071540E	012	62.0						Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>ALTAR</u> 034318S 1073200E		75.0						
▲ <u>"TPN" VOR/DME</u> 024328.5S 1074511.7E		61.0	<u>FL 600</u> 6 000 ft	A, C	10			
▲ <u>OLVES</u> 005231S 1085314E	031	129.7						Palembang APP, Pontianak APP, Jakarta FIC, Jakarta ACC (See ENR 2.1)
▲ <u>"PNK" VOR/DME</u> 000445.0S 1092229.8E		55.8						
<u>W15</u>								
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E								
▲ <u>ISNED</u> 052558S 1074720E	054 234	55.0						Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>EGUKO</u> 044245S 1084853E		75.0	<u>FL 600</u> 6 000 ft	A, C	10			
▲ <u>TAVIP</u> 035752S 1102300E	064 244	104.1						
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			7
<div>CONT</div> <div>W15</div> <div>▲ <u>TAVIP</u> 035752S 1102300E</div> <div>▲ <u>LAMUD</u> 030225S 1121831E</div> <div>▲ <u>"PKY" VOR/DME</u> 021436.6S 1135658.7E</div> <div>▲ <u>HAMOL</u> 014614S 1152023E</div> <div>▲ <u>"BPN" VOR/DME</u> 011444.7S 1165625.1E</div> <div>▲ <u>LADOP</u> 000142N 1193041E</div> <div>▲ <u>GOTSA</u> 005620N 1232007E</div> <div>▲ <u>"MWB" VOR/DME</u> 011923.7N 1245717.6E</div>								
		128.0	FL 600 4 000 ft	A, C	10	↓		Ujung Pandang FIR, Pangkalan Bun APP, Ujung Pandang ACC (See ENR 2.1)
	<u>064</u> 244	109.4						Banjarmasin APP, Ujung Pandang ACC (See ENR 2.1)
	<u>071</u> 251	88.2						Balikpapan APP, Ujung Pandang ACC (See ENR 2.1)
	<u>072</u> 252	101.1	Palu APP, Gorontalo APP, Ujung Pandang ACC (See ENR 2.1)					
	<u>063</u> 244	172.2						Manado APP, Ujung Pandang ACC (See ENR 2.1)
		236.2	FL 600 12 000 ft			↑		
	<u>077</u> 257	100.0	FL 600 8 500 ft					

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	3	4	5	5	6	6
<u>W15N</u>								
▲ <u>"PKY" VOR/DME</u> 021436.6S 1135658.7E	258 078	138.8	FL 600 4 000 ft	A, C	10		↓	Ujung Pandang FIR, Pangkalan Bun APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"PKN" VOR/DME</u> 024306.5S 1114115.8E	226 046	108.0				↑		
▲ <u>TAVIP</u> 035752S 1102300E								
<u>W16</u>								
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E	302	82.4	FL 600 7 000 ft	A, C	10		↓	Ujung Pandang FIR, Surabaya APP, Semarang APP, Ujung Pandang ACC (See WAHS AD 2.18 and ENR 2.1)
▲ <u>LASEM</u> 063706S 1113654E	301	36.3						
▲ <u>CUCUT</u> 061742S 1110600E		42.8					↓	
▲ <u>MADIN</u> 061754S 1102300E	269 089	63.1						Jakarta FIR Jakarta APP Jakarta ACC (See ENR 2.1)
▲ <u>KIDET</u> 061803S 1091937E		59.0				↑		
▲ <u>"IMU" VOR/DME</u> 061815.1S 1082020.4E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	<u>Upper</u> Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	3	4	5	5	6	6
<u>W16S</u>								
▲ <u>KIDET</u> 061803S 1091937E	242	51.6				↓		
▲ <u>"CA" NDB</u> 064152.7S 1083335.1E	<u>259</u> 079	63.5	<u>FL 600</u> 12 000 ft	A, C	10	↑	↓	Jakarta FIR, Jakarta ACC (See ENR 2.1)
▲ <u>"BND" VOR/DME</u> 065255.5S 1073044.4E								
<u>W17</u>								
▲ <u>"HLM" VOR/DME</u> 061619.0S 1065313.1E	<u>117</u> 297	38.0				↓		
▲ <u>"PW" NDB</u> 063400.0S 1072700.0E	<u>168</u> 348	19.2	<u>FL 600</u> 10 000 ft		10			Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>"BND" VOR/DME</u> 065255.5S 1073044.4E	<u>116</u> 296	101.6		A, C				
▲ <u>"CLP" VOR/DME</u> 073840.8S 1090208.9E		59.0						
▲ <u>LILPO</u> 074604S 1100106E	<u>096</u> 276	17.4	<u>FL 600</u> 5 000 ft		8		↑	Jakarta FIR, Yogyakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>"JOG" VOR/DME</u> 074801.2S 1101833.6E								



Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
<u>W17S</u>								
▲ "CLP" VOR/DME 073840.8S 1090208.9E	333 153	63.3	FL 600 7 000 ft	A, C	10	↑	↓	Jakarta FIR, Jakarta ACC (See ENR 2.1)
▲ "CA" NDB 064152.7S 1083335.1E	330	27.0					↓	
▲ "IMU" VOR/DME 061815.1S 1082020.4E								
<u>W17N</u>								
▲ "JOG" VOR/DME 074801.2S 1101833.6E	056 236	31.2	FL 600 10 500 ft	A, C	5	↓		Ujung Pandang FIR, Yogyakarta APP, Surabaya APP, Ujung Pandang ACC (See ENR 2.1)
▲ "SO" NDB 073043.7S 1104447.6E	360 180	18.8			8			
▲ PURWO 071148S 1104508E	300 120	25.9	FL 600 5 500 ft				↑	
▲ "ANY" VOR/DME 065828.9S 1102248.4E	302	74.7			10		↓	Jakarta FIR, Semarang APP, Jakarta ACC (See ENR 2.1 and WAHS AD 2.18)
▲ KIDET 061803S 1091937E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of Cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			6
<u>W18</u>								
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E	<u>072</u> 251	55.0				↓		Jakarta FIR, Jakarta ACC, Jakarta APP (See ENR 2.1)
▲ <u>PAPMU</u> 054042S 1075439E	<u>071</u> 251	71.8						
▲ <u>AKSOX</u> 051748S 1090254E	<u>072</u> 252	86.1						
▲ <u>SPIKO</u> 045236S 1102524E	<u>072</u> 251	50.7	FL 600 6 000 ft					
▲ <u>SUMDI</u> 043702S 1113147E		121.0		A, C	10			Ujung Pandang FIR, Banjarmasin APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>DUNIA</u> 035800S 1130830E	<u>071</u> 251	36.9						
▲ <u>DOSDO</u> 034612S 1134330E		63.6						
▲ <u>"BDM" VOR/DME</u> 032612.5S 1144353.4E	<u>044</u> 225	94.2	FL 600 7 500 ft					
▲ <u>TUTKU</u> 021923S 1155037E	<u>045</u> 225	92.1						Balikpapan APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"BPN" VOR/DME</u> 011444.7S 1165625.1E							↑	
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
W18 CONT								
▲ <u>"BPN" VOR/DME</u> 011444.7S 1165625.1E	007 188	100.0				↓		Balikpapan APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>MABOT</u> 002450N 1170956E		112.0	<u>FL 600</u> 6 000 ft	A, B	10			Tarakan APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>SOSVO</u> 021621N 1172504E	008 188	63.5					↑	
▲ <u>"TRK" VOR/DME</u> 031932.2N 1173341.9E								
W19								
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E	175	17.0						Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>MAGIG</u> 054038S 1070056E	117	54.1	<u>FL 600</u> 6 000 ft	A, C	10			
▲ <u>BIDOV</u> 051537S 1061248E	090	61.0				↑		Jakarta ACC (See ENR 2.1)
▲ <u>"TKG" VOR/DME</u> 051537.2S 1051138.9E	295 115	47.7	<u>FL 600</u> 8 500 ft			↑	↓	
▲ <u>TOLIT</u> 045452S 1042831E								
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
W19 CONT								
▲ <u>TOLIT</u> 045452S 1042831E	296 116	142.3	<u>FL 600</u> 11 500 ft	A, C	10	↓		Jakarta FIR, Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>"BKL" VOR/DME</u> 035153.1S 1022034.3E	318 138	159.1						
▲ <u>LEBEG</u> 015313S 1003404E	345 165	67.9	<u>FL 600</u> 8 000 ft					Pekanbaru APP, Jakarta ACC (See ENR 2.1)
▲ <u>"MKB" VOR/DME</u> 004713.2S 1001641.6E		200.3						
▲ <u>ELDEL</u> 015220N 0981442E	323 143	276.0	<u>FL 600</u> 12 500 ft			↑		Medan APP, Jakarta ACC (See ENR 2.1)
▲ <u>"BAC" VOR/DME</u> 053121.5N 0952520.3E								
W21								
▲ <u>"MKB" VOR/DME</u> 004713.2S 1001641.6E	165 345	67.9	<u>FL 600</u> 7 500 ft	A, C	10	↓		Jakarta FIR, Pekanbaru APP, Jakarta ACC (See ENR 2.1)
▲ <u>LEBEG</u> 015313S 1003404E	105 284	102.4	<u>FL 600</u> 10 500 ft					
▲ <u>ISKUT</u> 021848S 1021309E						↑		
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency			
						odd	even				
1	2	3	3	4	5	5	6				
CONT <u>W21</u> ▲ <u>ISKUT</u> 021848S 1021309E ▲ <u>"PLB" VOR/DME</u> 025242.9S 1043911.4E ▲ <u>TERKA</u> 041402S 1045737E ▲ <u>"TKG" VOR/DME</u> 051537.2S 1051138.9E ▲ <u>OTBIN</u> 063746S 1061050E ▲ <u>"BND" VOR/DME</u> 065255.5S 1073044.4E											
	<u>103</u> 283	150.0	<u>FL 600</u> 6 000 ft	A, C	10	↓		Jakarta FIR, Palembang APP, Jakarta ACC (See ENR 2.1)			
		83.0									
	<u>167</u> 347	62.9					↑	Jakarta ACC (See ENR 2.1)			
						<u>FL 600</u> 9 000 ft			↓		Jakarta APP, Jakarta ACC (See ENR 2.1)
	144	100.8									
			<u>FL 600</u> FL 130								
	100	80.9									

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency					
						odd	even						
1	2			3	4	5		6					
<u>W22</u> ▲ <u>"MKB" VOR/DME</u> 004713.2S 1001641.6E ▲ <u>OSNIS</u> 003607S 1004019E ▲ <u>UGIGI</u> 000310S 1012629E ▲ <u>"PKU" VOR/DME</u> 002532.1N 1012629.8E ▲ <u>TUSNU</u> 003403N 1022109E ▲ <u>"TPG" VOR/DME</u> 005412.8N 1043052.4E													
	<u>065</u> 245	26.1	<u>FL 600</u> 8 000 ft	A, C	10			Jakarta FIR, Pekanbaru APP, Jakarta ACC (See ENR 2.1)					
	<u>055</u> 235	56.7											
	<u>360</u> 180	28.6	<u>FL 600</u> 6 000 ft										
	<u>081</u> 261	55.4											
	<u>081</u> 261	131.5	Tanjungpinang APP (See ENR 2.1)										
													

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace Classification	Lateral Limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			6
<u>W23</u>								
▲ <u>"BKL" VOR/DME</u> 035153.1S 1022034.3E	<u>067</u> 247	150.6	<u>FL 600</u> 8 000 ft	A,C	10	↓		Jakarta FIR, Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>"PLB" VOR/DME</u> 025242.9S 1043911.4E		49.0						
▲ <u>TODAK</u> 023119S 1052318E	<u>064</u> 244		<u>FL 600</u> 6 000 ft					
		50.0						
▲ <u>"PKP" VOR/DME</u> 021001.9S 1060831.5E		87.8						
▲ <u>GUKN0</u> 012203S 1072210E	<u>057</u> 237	81.7	<u>FL 600</u> 4 000ft					Pontianak APP, Jakarta FIC, Jakarta ACC (See ENR 2.1)
▲ <u>UNTEP</u> 003754S 1083054E		61.3						
▲ <u>"PNK" VOR/DME</u> 000445.0S 1092229.8E						↑		
<u>W24</u>								
▲ <u>"PLB" VOR/DME</u> 025242.9S 1043911.4E		110.1		A, C	10	↑	↓	Jakarta FIR, Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>NIPES</u> 010208S 1043538E	<u>358</u> 178		<u>FL 600</u> 6 000 ft					
		33.0						
▲ <u>"NE" NDB</u> 002858.8S 1043433.6E								
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
CONT								
<u>W24.</u>								
▲ <u>"NE" NDB</u> 002858.8S 1043433.6E	<u>357</u> <u>177</u>	82.9	<u>FL 600</u> <u>6 000 ft</u>	A, C	10	↑	↓	Tanjungpinang APP (See ENR 2.1)
▲ <u>"TPG" VOR/DME</u> 005412.8N 1043052.4E								
<u>W25</u>								
▲ <u>"MKB" VOR/DME</u> 004713.2S 1001641.6E	<u>116</u> <u>296</u>	141.0	<u>FL 600</u> <u>10 500 ft</u>	A, C	10	↓		Jakarta FIR, Pekanbaru APP, Jakarta ACC (See ENR 2.1)
▲ <u>PASOL</u> 014930S 1022306E	<u>115</u> <u>294</u>	150.0						Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>"PLB" VOR/DME</u> 025242.9S 1043911.4E		82.0						
▲ <u>IBORU</u> 024845S 1060103E	<u>087</u> <u>267</u>	14.0	<u>FL 600</u> <u>6 000 ft</u>					
▲ <u>LIMLU</u> 024805S 1061501E		90.3					↑	
▲ <u>"TPN" VOR/DME</u> 024328.5S 1074511.7E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			6
<u>W26</u>								
▲ <u>"TPG" VOR/DME</u> 005412.8N 1043052.4E	152 332	61.0	FL 600 6 000 ft	A, C	10	↓		Tanjungpinang APP (See ENR 2.1)
▲ <u>KIRDA</u> 000009N 1045934E	152 331	146.8						Jakarta FIR, Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>"PKP" VOR/DME</u> 021001.9S 1060831.5E	170 350	88.3						
▲ <u>BOSLO</u> 033730S 1062330E	169 349	75.1						
▲ <u>BUNIK</u> 045142S 1063724E	159 339	70.1						
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E							↑	
<u>W26E</u>								
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9S	012	137.0	FL 600 6 000 ft	A, C	10	↓		Jakarta FIR, Jakarta APP, Palembang APP, Jakarta ACC (See ENR 2.1)
▲ <u>ALTAR</u> 034318S 1073200E	317	124.9						
▲ <u>"PKP" VOR/DME</u> 021001.9S 1060831.5E							↓	

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3			4	5		6
<u>W31</u>								
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E	<u>026</u> 206	75.4	<u>FL 600</u> 4 000 ft	A, C	10	↓		Ujung Pandang FIR, Surabaya APP, Ujung Pandang ACC, (See ENR 2.1)
▲ <u>RAMPY</u> 061501S 1132046E	<u>025</u> 205	86.0						
▲ <u>IKAPI</u> 045722S 1135837E	<u>026</u> 206	101.4						
▲ <u>"BDM" VOR/DME</u> 032612.5S 1144353.4E	<u>326</u> 146	85.3						
▲ <u>"PKY" VOR/DME</u> 021436.6S 1135658.7E								
						↑	↑	Banjarmasin APP, Ujung Pandang ACC (See ENR 2.1)
<u>W31W</u>								
▲ <u>IKAPI</u> 045722S 1135837E	228	83.6	<u>FL 600</u> 6 000 ft	A, C	10		↓	Ujung Pandang FIR, Surabaya APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>RITBO</u> 055238S 1125533E	184	15.0						
▲ <u>ROPIA</u> 060739S 1125414E	185	74.9						
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			7
<u>W32</u>								
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E								
▲ <u>PEDSO</u> 065825S 1135905E	071 251	76.2				↓		
▲ <u>SUSIL</u> 063406S 1151027E		75.0						Ujung Pandang FIR, Surabaya APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>DASTY</u> 061026S 1161950E	070 250	73.0	FL 600 6 000 ft					
▲ <u>ENDOG</u> 055237S 1171205E		55.0						
▲ <u>"MKS" DVOR/DME</u> 050216.0S 1193134.2E	069 249	147.8		A, C	10			Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>VENRU</u> 030559S 1210705E	039 219	150.0						
▲ <u>DIOLA</u> 022454S 1214047E		53.0	FL 600 10 000 ft					Manado APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>ENTEG</u> 005312S 1230000E	041 221	120.9						
▲ <u>LUANG</u> 000420N 1235055E	041 222	76.7	FL 600 8 000 ft					Manado APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MWB" VOR/DME</u> 011923.7N 1245717.6E	042 222	100.0					↑	

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3			4	5		6
<u>W32N</u>								
▲ <u>SUSIL</u> 063406S 1151027E	273	80.6	<u>FL 600</u> 4 000 ft	A, C	10		↓	Ujung Pandang FIR, Surabaya APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>KOLTA</u> 062753S 1134940E		15.0						
▲ <u>ATANO</u> 063746S 1133818E	228	68.2						
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E								
<u>W33</u>								
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E		77.3	<u>FL 600</u> <u>FL 130</u>	A, C	10	↓		Ujung Pandang FIR, Surabaya APP, Bali APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>MOVMO</u> 080117S 1135344E	<u>119</u> <u>299</u>	87.1						
▲ <u>"BLI" VOR/DME</u> 084502.1S 1150947.9E	<u>100</u> <u>279</u>	150.0	<u>FL 600</u> 6 500 ft					
▲ <u>LEDOM</u> 091251S 1173846E	<u>099</u> <u>278</u>	159.9						
▲ <u>"WGP" VOR/DME</u> 094011.5S 1201814.5E	<u>098</u> <u>277</u>	202.8						
▲ <u>"KPG" VOR/DME</u> 101000.3S 1234130.5E								
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
W33 CONT								
▲ <u>"KPG" VOR/DME</u> 101000.3S 1234130.5E	<u>040</u> 220	127.5	<u>FL 600</u> 9 500 ft	A, C	10	↓		Kupang APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>MUBRA</u> 083337S 1250629E	<u>086</u> 266	25.0	<u>FL 600</u> 7 500ft				↑	Dili APP
▲ <u>"DIL" VOR</u> 083236.0S 1253142.0E								
W34								
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E								
▲ <u>ENTAS</u> 074247S 1142213E	<u>101</u> 281	97.4	<u>FL 600</u> 4 000 ft	A, C	10	↓		Surabaya APP, Bali APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>AGUNG</u> 075929S 1154104E		80.0						
▲ <u>"LMB" VOR/DME</u> 084620.4S 1161738.6E	<u>141</u> 321	59.1					↑	Bali APP, Ujung Pandang ACC (See ENR 2.1)

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	<u>Upper</u> Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			6
<u>W35</u>								
▲ <u>"PNK" VOR/DME</u> 000445.0S 1092229.8E	121 301	93.9	<u>FL 600</u> 6 500 ft	A, C	10	↓		Jakarta FIR, Pontianak APP, Jakarta FIC, Jakarta ACC (See ENR 2.1)
▲ <u>TEPEV</u> 005430S 1104212E	122 302	62.9						
▲ <u>ENPIN</u> 012805S 1113525E	121 301	222.3						Ujung Pandang FIR, Banjarasin APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"BDM" VOR/DME</u> 032612.5S 1144353.4E	102 281	154.6						
▲ <u>GURNI</u> 035848S 1171508E	114 294	150.2						Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MKS" DVOR/DME</u> 050216.0S 1193134.2E	143 322	150.0						
▲ <u>NETTO</u> 070258S 1210145E	142 322	119.3	<u>FL 600</u> 7 000 ft					Kupang APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MOF" VOR/DME</u> 083827.9S 1221422.7E	136 315	125.4						
▲ <u>"KPG" VOR/DME</u> 101000.3S 1234130.5E							↑	

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6	7	8	9
<u>W36</u>								
▲ <u>OSRUT</u> 003151S 1121708E		155.0				↓		Ujung Pandang FIR, Balikpapan APP, Ujung Pandang FIC, Ujung Pandang ACC, (See ENR 2.1)
▲ <u>ELANG</u> 005536S 1145003E	098 278	128.0	FL 600 8 500 ft					
▲ <u>"BPN" VOR/DME</u> 011444.7S 1165625.1E	082 262	96.0						
▲ <u>DOMKI</u> 010130S 1183121E	085 265	43.0	FL 600 9 500 ft					Palu APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>EMSIV</u> 005759S 1191412E	083 263	39.9						
▲ <u>"PAL" VOR/DME</u> 005306.0S 1195341.0E	091 271	29.0		A, C	10			Palu APP, Gorontalo APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>RIKMU</u> 005337S 1202238E		157.6	FL 600 FL 135					
▲ <u>ENTEG</u> 005312S 1230000E	090 270	214.3						Gorontalo APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>TELES</u> 005424S 1263354E	090 269	36.0	FL 600 9 000 ft					
▲ <u>MUDAL</u> 005424S 1270948E	090 270	133.5						Ternate APP, Ujung Pandang ACC
▲ <u>GOBAL</u> 005536S 1292305E	088 268	114.5	FL 600 6 000 ft				↑	Sorong APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MIL" VOR/DME</u> 005346.4S 1311723.2E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	3	4	5	5	6	6
<u>W37</u>								
▲ <u>"BPN" VOR/DME</u> 011444.7S 1165625.1E								
▲ <u>GAMAL</u> 025150S 1180220E		117.0						
	<u>145</u> 325		<u>FL 600</u> 4 000 ft					
▲ <u>"MKS" DVOR/DME</u> 050216.0S 1193134.2E		157.5						Ujung Pandang FIR, Balikpapan APP, Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>NUKPO</u> 061913S 1214057E	<u>120</u> 300	150.0	<u>FL 600</u> 11 500 ft					
▲ <u>LUSIA</u> 070218S 1225332E		84.0		A, C	10			Ujung Pandang APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>DOVIK</u> 082013S 1250945E	<u>119</u> 298	155.9	<u>FL 600</u> 7 000 ft					
▲ <u>"DIL" VOR</u> 083236.0S 1253142.0E	<u>118</u> 298	25.0						Dili APP

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
<u>W38</u>								
▲ <u>"PNK" VOR/DME</u> 000445.0S 1092229.8E								
▲ <u>MASRI</u> 022915S 1084004E	196	149.9					↓	Jakarta FIR, Pontianak APP, Jakarta FIC, Jakarta ACC (See ENR 2.1)
▲ <u>AMBOY</u> 040800S 1081000E		102.8						
▲ <u>DENDY</u> 051149S 1073624E	207 027	71.8	FL 600 6 000 ft	A, C	10		↓	Jakarta APP, Jakarta ACC, (See ENR 2.1)
▲ <u>"DKI" VOR/DME</u> 055740.3S 1070207.9E	216 036	57.0				↑		
<u>W38W</u>								
▲ <u>"TPN" VOR/DME</u> 024328.5S 1074511.7E								
	163	87.7	FL 600 6 000 ft	A, C	10	↓		Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>AMBOY</u> 040800S 1081000E								Diversion route "TPN" to "DKI" join to W38

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	3	4	5	5	6	6
<u>W41</u>								
▲ "BLI" VOR/DME 084502.1S 1150947.9E		115.0				↓		Ujung Pandang FIR, Bali APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ PEDET 073039S 1163832E	<u>049</u> 229	77.0	<u>FL 600</u> 11 000 ft					
▲ LIPOT 064051S 1173748E	<u>048</u> 228	149.9						Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)
▲ "MKS" DVOR/DME 050216.0S 1193134.2E		150.0						
▲ LEKEX 041537S 1215425E	<u>071</u> 251	34.5	<u>FL 600</u> 7 000 ft					Kendari APP, Ujung Pandang ACC (See ENR 2.1)
▲ "KDI" VOR/DME 040432.6S 1222710.2E	<u>070</u> 250	35.0		A, C	10			
▲ IDPAP 035240S 1230009E		282.0	<u>FL 600</u> 10 000 ft					
▲ KABSU 021659S 1272529E	<u>070</u> 249	113.0						Ambon APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ ALOBA 013838S 1291142E	<u>069</u> 249	35.0	<u>FL 600</u> 5 500 ft					
▲ DAPTI 012645S 1294435E	<u>070</u> 249	98.6				↑		Sorong APP, Ujung Pandang ACC (See ENR 2.1)
▲ "MIL" VOR/DME 005346.4S 1311723.2E								
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
<div>CONT</div> <div>W41</div> <div>▲ "MIL" VOR/DME 005346.4S 1311723.2E</div> <div>▲ "MKW" VOR/DME 005347.3S 1340301.3E</div> <div>▲ SEGLO 005636S 1342619E</div> <div>▲ "BIK" VOR/DME 011056.9S 1360510.1E</div> <div>▲ JODRA 014639S 1375732E</div> <div>▲ KUBIA 020515S 1385604E</div> <div>▲ "JPA" VOR/DME 023442.2S 1403100.0E</div>								
	089 268	165.9	FL 600 10 000 ft	A, C	10	↓		Sorong APP, Ujung Pandang ACC (See ENR 2.1)
	095 275	23.5						Biak APP, Ujung Pandang ACC (See ENR 2.1)
	097 276	100.0						
	106 285	118.0	FL 600 8 500 ft					
	105 285	61.5				Ujung Pandang FIC (See ENR 2.1)		
	104 284	99.4				Jayapura APP, Ujung Pandang ACC (See ENR 2.1)		
						↑		

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3			4	5		6
<u>W42</u>								
▲ <u>"BLI" VOR/DME</u> 084502.1S 1150947.9E	<u>090</u> 270	67.2	<u>FL 600</u> 4 000 ft	A, C	10	↓		Ujung Pandang FIR, Bali APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"LMB" VOR/DME</u> 084620.4S 1161738.6E	<u>074</u> 254	68.4	<u>FL 600</u> 8 000 ft					
▲ <u>MUBOT</u> 082827S 1172417E	<u>092</u> 272	76.6	<u>FL 600</u> 7 500 ft					Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"NMA" VOR/DME</u> 083202.9S 1184129.6E	<u>091</u> 271	105.8	<u>FL 600</u> 9 500 ft					
▲ <u>RUTEN</u> 083617S 1202810E	<u>090</u> 270	105.2						
▲ <u>"MOF" VOR/DME</u> 083827.9S 1221422.7E	<u>087</u> 267	78.8	<u>FL 600</u> 7 500 ft					Kupang APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>ELKEK</u> 083553S 1233353E	<u>087</u> 267	91.8						
▲ <u>MUBRA</u> 083337S 1250629E	<u>086</u> 266	25.0						Dili APP
▲ <u>"DIL" VOR</u> 083236.0S 1253142.0E						↑		

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	<u>Upper</u> <u>Lower</u>	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2			3	4	5	6	
<u>W43</u>								
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E								Ujung Pandang FIR, Surabaya APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>ENTAS</u> 074247S 1142213E	101 281	97.4	<u>FL 600</u> 11 000 ft			↓		Bali APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>AGUNG</u> 075929S 1154104E		80.0		A, C	10			Kupang APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>MUBOT</u> 082827S 1172417E	105 285	106.3	<u>FL 600</u> FL 135					
▲ <u>"WGP" VOR/DME</u> 094011.5S 1201814.5E	112 291	186.3	<u>FL 600</u> 9 500 ft					
▲ <u>"KPG" VOR/DME</u> 101000.3S 1234130.5 E	098 277	202.8	<u>FL 600</u> 6 000 ft					
▲ <u>BACAU</u> 082906S 1262400E	057 236	189.5	<u>FL 600</u> 11 500 ft				↑	DILI APP

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6	5		6
<u>W44</u>								
▲ <u>"BLI" VOR/DME</u> 084502.1S 1150947.9 E	<u>068</u> 248	227.0	<u>FL 600</u> FL 135	A, C	10	↓		Ujung Pandang FIR, Bali APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>SULAR</u> 072341S 1184335E	<u>069</u> 249	82.9						Ujung Pandang APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>KEONG</u> 065516S 1200158E	<u>067</u> 247	116.2	<u>FL 600</u> 5 500 ft					
▲ <u>LEDIR</u> 061119S 1215007E	<u>068</u> 248	152.7						
▲ <u>EMONA</u> 051554S 1241300E	<u>069</u> 249	157.1	<u>FL 600</u> 4 500 ft					
▲ <u>SASKA</u> 042114S 1264038E	<u>063</u> 243	100.7						
▲ <u>"AMN" VOR/DME</u> 033653.7S 1281109.8E		100.0						Ambon APP, Ujung Pandang FIC, Ujung Pandang ACC, (See ENR 2.1)
▲ <u>FALAM</u> 022914S 1292504E	<u>047</u> 227	10.3	<u>FL 600</u> 7 000 ft					
▲ <u>POSAT</u> 022218S 1293239E		49.7						
▲ <u>RUMIT</u> 014839S 1300923E	<u>050</u> 230	87.3						Sorong APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MIL" VOR/DME</u> 005346.4S 1311723.2E							↑	

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			7
<u>W45</u>								
▲ <u>"HLM" VOR/DME</u> 061619.0S 1065313.1E	104	65.0				↓		
▲ <u>KASAL</u> 063238S 1075626E	103	38.1						
▲ <u>"CA" NDB</u> 064152.7S 1083335.1E		34.9	<u>FL 600</u> 5 500 ft					Jakarta FIR, Jakarta APP, Jakarta ACC (See ENR 2.1)
▲ <u>PIALA</u> 064725S 1090813E	098	75.0		A, C	10			
▲ <u>"ANY" VOR/DME</u> 065828.9S 1102248.4E	90	62.0						Ujung Pandang FIR, Surabaya APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"BA" NDB</u> 065933.5S 1112508.3E	105	83.8	<u>FL 600</u> 4 000 ft					
▲ <u>"SBR" VOR/DME</u> 072226.2S 1124616.4E	101	97.4						Bali APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>ENTAS</u> 074247S 1142213E	142	77.9	<u>FL 600</u> 6 500 ft					
▲ <u>"BLI" VOR/DME</u> 084502.1S 1150947.9E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency	
						odd	even		
1	2	3	4	5	6	7	8	9	
W46									
▲ "BLI" VOR/DME 084502.1S 1150947.9E	012 193	125.0	FL 600 9 000 ft	A, C	10	↓		Ujung Pandang FIR, Bali APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)	
▲ HOSTY 064252S 1153900E		109.0						Banjarmasin APP Ujung Pandang ACC (See ENR 2.1)	
▲ HULAT 045619S 1160421E		72.0						Balikpapan APP, Ujung Pandang ACC (See ENR 2.1)	
▲ ISRUL 034556S 1162102E		154.6							
▲ "BPN" VOR/DME 011444.7S 1165625.1E									
W51									
▲ "MKS" DVOR/DME 050216.0S 1193134.2E	340 161	150.0	FL 600 7 500 ft	A, C	10	↑ ↓		Ujung Pandang FIR, Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)	
▲ NIVEK 023945S 1184243E		127.7						FL 600 10 000 ft	Palu APP, Gorontalo APP, Ujung Pandang ACC (See ENR 2.1)
▲ "PAL" VOR/DME 005306.0S 1195341.0E		199.6							
▲ "GTL" VOR/DME 003840.7N 1225053.0E									
CONT									

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
W51 CONT								
▲ <u>"GTL" VOR/DME</u> 003840.7N 1225053.0E								
▲ <u>GONTA</u> 004849N 1232211E	<u>072</u> 252	32.9 100.0	<u>FL 600</u> 10 000 ft	A, C	10	↓	↑	Palu APP, Gorontalo APP, Ujung Pandang ACC (See ENR 2.1) Manado APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MWB" VOR/DME</u> 011923.7N 1245717.6E								
W52								
▲ <u>"MKS" DVOR/DME</u> 050216.0S 1193134.2E								
▲ <u>BIMAK</u> 053134S 1170404E	<u>258</u> 078	150.0 32.0				↓		Ujung Pandang FIR, Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>BIKOD</u> 053749S 1163236E	<u>261</u> 081	89.4	<u>FL 600</u> 4 000 ft					Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>AKINO</u> 055024S 1150347E	<u>259</u> 079	150.6		A, C	10			Surabaya APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>SIPUT</u> 061700S 1123500E	<u>250</u> 070	61.2						Ujung Pandang ACC (See ENR 2.1)
▲ <u>LASEM</u> 063706S 1113654E	<u>253</u> 073	76.7	<u>FL 600</u> 6 500 ft			↑		Semarang APP, Surabaya APP, Ujung Pandang ACC (See ENR 2.1 and WAHS AD 2.18)
▲ <u>"ANY" VOR/DME</u> 065828.9S 1102248.4E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
<u>W53</u>								
▲ <u>"MKS" DVOR/DME</u> 050216.0S 1193134.2E								
▲ <u>SUGTA</u> 043844S 1215959E		150.0	<u>FL 600</u> 8 500 ft					Ujung Pandang FIR, Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>HIPNO</u> 042514S 1232504E	<u>080</u> 260	86.0	<u>FL 600</u> 11 000ft					Kendari APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>HOLBA</u> 035640S 1262458E		182.0						Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"AMN" VOR/DME</u> 033653.7S 1281109.8E	<u>079</u> 258	108.0	<u>FL 600</u> 7 000 ft					Ambon APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>ATOMY</u> 030750S 1294653E		100.0		A, C	10			
▲ <u>RUSUX</u> 024902S 1304804E	<u>072</u> 252	64.0	<u>FL 600</u> 12 000 ft					Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>JOLAM</u> 021603S 1323606E		113.0						
▲ <u>HELIT</u> 020718S 1330446E		30.0						
▲ <u>ONTAL</u> 014102S 1343046E	<u>072</u> 251	90.0	<u>FL 600</u> 9 000 ft					Biak APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"BIK" VOR/DME</u> 011056.9S 1360510.1E	<u>071</u> 250	99.2						

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency					
						odd	even						
1	2	3		4	5		6						
<u>W54</u>													
▲ <u>"MKS" VOR/DME</u> 050216.0S 1193134.2E													
▲ <u>LEKEX</u> 041537S 1215425E	<u>071</u> 251	150.0	FL 600 7 500 ft	A, C	10	↓		Ujung Pandang FIR, Ujung Pandang APP, Ujung Pandang ACC (See ENR 2.1)					
▲ <u>"KDI" VOR/DME</u> 040432.6S 1222710.2E		34.5											
▲ <u>RALTO</u> 040119S 1230905E	<u>085</u> 265	42.0						Kendari APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)					
▲ <u>SULIS</u> 034538S 1263235E		204.0											
▲ <u>"AMN" VOR/DME</u> 033653.7S 1281109.8E	<u>084</u> 264	98.9							Ambon APP, Ujung Pandang ACC (See ENR 2.1)				
▲ <u>GOMBY</u> 041644S 1294301E	<u>112</u> 292	100.0											
▲ <u>TARIV</u> 050756S 1313335E	<u>114</u> 293	121.6											
▲ <u>FOLOT</u> 053100S 1322324E	<u>113</u> 293	54.7						FL 600 5 000 ft					
▲ <u>LEBON</u> 053900S 1324312E	<u>110</u> 290	21.3											
▲ <u>LALOV</u> 063000S 1350000E	<u>109</u> 288	145.4											
▲ <u>EROSY</u> 070818S 1364612E	<u>107</u> 287	112.3									↑		
CONT													

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3			4	5		6
<div>CONT</div> <div><u>W54</u></div>								
▲ <u>EROSY</u> 070818S 1364612E		78.3				↓		Ujung Pandang FIC, Ujung Pandang ACC
▲ <u>JOLIA</u> 073600S 1380000E	<u>108</u> 287		<u>FL 600</u> 5 000 ft	A, C	10		↑	(See ENR 2.1) Merauke APP, Ujung Pandang ACC
▲ <u>"MKE" VOR/DME</u> 083121.4S 1402501.6E		154.0						(See ENR 2.1)
<div><u>W55</u></div>								
▲ <u>"MWB" VOR/DME</u> 011923.7N 1245717.6E						↓		Ujung Pandang FIR, Manado APP, Ujung Pandang ACC
▲ <u>RUMBO</u> 000326S 1255349E	<u>145</u> 325	100.0	<u>FL 600</u> 8 500 ft					(See ENR 2.1)
▲ <u>IDAMI</u> 005245S 1262729E		59.5		A, C	10			Ujung Pandang FIC, Ujung Pandang ACC
▲ <u>BELBA</u> 021325S 1271812E	<u>147</u> 327	95.0	<u>FL 600</u> 7 500 ft					(See ENR 2.1)
▲ <u>"AMN" VOR/DME</u> 033653.7S 1281109.8E	<u>147</u> 326	98.5					↑	Ambon APP, Ujung Pandang ACC
▲ <u>BUBTU</u> 051418S 1274633E	<u>193</u> 013	100.0				↑	↓	(See ENR 2.1)
<div>CONT</div>								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
W55 CONT								
▲ <u>BUBTU</u> 051418S 1274633E	202 022	183.0	FL 600 7 500 ft	A, C	10		↓	Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>VALGO</u> 080336S 1263450E	201 021	27.6				↑		Dili APP
▲ <u>BACAU</u> 082906S 1262400E								
W61								
▲ <u>"BIK" VOR/DME</u> 011056.9S 1360510.1E	282 102	100.2	FL 600 11 000 ft	A, C	10		↓	Ujung Pandang FIR, Biak APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>FILMO</u> 004712S 1342800E		192.0						Sorong APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>FASAL</u> 000230S 1312136E		134.7						
▲ <u>FATOL</u> 002900N 1291048E	283 103	48.6						Ternate APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>FORMY</u> 004018N 1282336E		110.3	FL 600 8 000 ft					
▲ <u>HALMO</u> 010053N 1263526E	280 101	100.0				↑		Manado APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MWB" VOR/DME</u> 011923.7N 1245717.6E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			7
<u>W62</u>								
▲ <u>"BIK" VOR/DME</u> 011056.9S 1360510.1E	<u>133</u> 313	100.0	<u>FL 600</u> 7 000 ft	A, C	10	↓		Ujung Pandang FIR, Biak APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>LINLU</u> 022229S 1371518E	<u>133</u> 312	145.1	<u>FL 600</u> 14 000 ft					Ujung Pandang FIC, Merauke APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"ZW" NDB</u> 040601.7S 1385723.3E	<u>159</u> 338	278.1	<u>FL 600</u> 16 000 ft					
▲ <u>"MKE" VOR/DME</u> 083121.4S 1402501.6E							↑	
<u>W63</u>								
▲ <u>"BIK" VOR/DME</u> 011056.9S 1360510.1E	<u>165</u> 345	100.0	<u>FL 600</u> 16 000 ft	A, C	10	↓		Ujung Pandang FIR, Biak APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>IBOGO</u> 024846S 1362802E	<u>164</u> 344	104.5	<u>FL 600</u> 17 000 ft					Timika APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"TMK" VOR/DME</u> 043101.7S 1365202.0E	<u>137</u> 317	101.0						
▲ <u>UBDUT</u> 054832S 1375723E	<u>135</u> 314	218.6	<u>FL 600</u> 4 000 ft					Merauke APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MKE" VOR/DME</u> 083121.4S 1402501.6E							↑	

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			7
<u>W64</u>								
▲ <u>"BIK" VOR/DME</u> 011056.9S 1360510.1E		100.0	<u>FL 600</u> 5 000 ft	A, C	10		↓	Ujung Pandang FIR, Biak APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>NOBBY</u> 024754S 1353854E	193 013	35.2	<u>FL 600</u> 4 000 ft			↑		
▲ <u>BUNKU</u> 032206S 1352957E	128 307	106.9	<u>FL 600</u> 14 000 ft			↓		Timika APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"TMK" VOR/DME</u> 043101.7S 1365202.0E							↑	
<u>W65</u>								
▲ <u>"BIK" VOR/DME</u> 011056.9S 1360510.1E	222 042	100.2	<u>FL 600</u> 9 500 ft	A, C	10		↓	Ujung Pandang FIR, Biak APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>PEBDA</u> 022356S 1345617E	223 043	105.3						Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"KMN" VOR/DME</u> 033831.1S 1334140.5E	267 088	100.5						
▲ <u>IRSON</u> 033933S 1320112E	269 089	130.0	<u>FL 600</u> 6 000 ft					Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>SOBIA</u> 033803S 1295111E	269 090	100.0				↑		Ambon APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"AMN" VOR/DME</u> 033653.7S 1281109.8E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	<u>Upper</u> Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
<u>W66</u>								
▲ <u>"JPA" VOR/DME</u> 023442.2S 1403100.0E						↓		Ujung Pandang FIR Jayapura APP Ujung Pandang ACC (See ENR 2.1)
▲ <u>IDINA</u> 041544S 1403358E	175 355	100.6	<u>FL 600</u> 14 500 ft	A, C	10		↑	Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"ZX" NDB</u> 045042.0S 1403442.0E		34.8				↑	↓	
▲ <u>UPNUM</u> 060642S 1401600E	190 010	77.9	<u>FL 600</u> 13 000 ft			↓	↑	Jayapura APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MKE" VOR/DME</u> 083121.4S 1402501.6E	173 352	144.2	<u>FL 600</u> 4 000 ft					
<u>W67</u>								
▲ <u>"JPA" VOR/DME</u> 023442.2S 1403100.0E						↓		Ujung Pandang FIR, Jayapura APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>MALIO</u> 034447S 1391933E	223 043	99.8	<u>FL 600</u> 15 000 ft	A, C	10			Ujung Pandang FIC, Timika APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"ZW" NDB</u> 040601.7S 1385723.3E		30.6						
▲ <u>"TMK" VOR/DME</u> 043101.7S 1365202.0E	256 076	127.7	<u>FL 600</u> 17 000 ft			↑		
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			
CONT								
<u>W67</u>								
▲ <u>"TMK" VOR/DME</u> 043101.7S 1365202.0E	<u>283</u> 104	197.3	<u>FL 600</u> 13 000 ft	A, C	10		↓	Timika APP, Ujung Pandang, FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"KMN" VOR/DME</u> 033831.1S 1334140.5E	<u>319</u> 140	105.1						
▲ <u>JOLAM</u> 021603S 1323606E	<u>315</u> 135	113.6	<u>FL 600</u> 5 000 ft					Sorong APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MIL" VOR/DME</u> 005346.4S 1311723.2E		135.5						
▲ <u>FIMBA</u> 000825S 1290954E	<u>288</u> 109	167.7	<u>FL 600</u> 8 500 ft					Ternate APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>SOSOK</u> 004636N 1263140E		100.0						Manado APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>"MWB" VOR/DME</u> 011923.7N 1245717.6E						↑		
<u>W68</u>								
▲ <u>"JPA" VOR/DME</u> 023442.2S 1403100.0E	<u>237</u> 057	99.7	<u>FL 600</u> 16 500 ft	A, C	10	↑	↓	Ujung Pandang FIR, Jayapura APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>ANLEP</u> 032441S 1390434E								
CONT								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3	4	5	6			7
W68 CONT								
▲ <u>ANLEP</u> 032441S 1390434E		73.0	FL 600 16 500 ft	A, C	10		↓	Ujung Pandang FIC, Timika APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>OVGOD</u> 035724S 1375913E	241 061	75.0						Timika APP, Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ "TMK" VOR/DME 043101.7S 1365202.0E	273 094	251.2	FL 600 10 000 ft					Ujung Pandang FIC, Ujung Pandang ACC (See ENR 2.1)
▲ <u>KIKOS</u> 040502S 1324154E	274 095	172.1	FL 600 4 500 ft					Ambon APP, Ujung Pandang ACC (See ENR 2.1)
▲ <u>HANTA</u> 034714S 1295038E	275 095	100.0				↑		
▲ "AMN" VOR/DME 033653.7S 1281109.8E								
W69								
▲ "NMA" VOR/DME 083202.9S 1184129.6E	077 256	433.8	FL 600 6 500 ft	A, C	10		↓	Ujung Pandang FIR Ujung Pandang FIC Ujung Pandang ACC (See ENR 2.1)
▲ <u>UNSEP</u> 065739S 1254808E	077 255	403.0						Ujung Pandang FIC Ujung Pandang ACC (See ENR 2.1)
▲ <u>FOLOT</u> 053100S 1322324E	076 255	274.7	FL 600 5 000 ft				↑	Ujung Pandang FIC Timika APP, Ujung Pandang ACC (See ENR 2.1)
▲ "TMK" VOR/DME 043101.7S 1365202.0E								

Route designator Significant points Coordinates	Track MAG (°)	DIST (NM)	Upper Lower	Airspace classification	Lateral limits (NM)	Direction of cruising levels		Remarks Controlling unit Frequency
						odd	even	
1	2	3		4	5	6		
<u>W71</u>								
▲ <u>"KMN" VOR/DME</u> 033831.1S 1334140.5E	<u>080</u> 259	109.5	<u>FL 600</u> 8 000 ft	A, C	10	↓		Ujung Pandang FIC, Ujung Pandang ACC, Jayapura APP (See ENR 2.1)
▲ <u>BUNKU</u> 032206S 1352957E	<u>079</u> 258	204.6						
▲ <u>LAVAR</u> 025018S 1385159E	<u>078</u> 258	100.3	<u>FL 600</u> 11 500 ft					
▲ <u>"JPA" VOR/DME</u> 023442.2S 1403100.0E						↑		