

ENR 3 ROUTES

ENR 3.1 LOWER ATS ROUTES

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
L6 (RNP/RNAV)										
△	DOVER VOR/DME (DVR)	510945.44N 0012132.72E							Extremity of L6. Intersection with L9, L10 and M140.	
(RNAV 5)		287°/ 106°	30.0 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between DVR and 511557N 0004822E: London Control (Swanwick) Freq: 134.900 (All Levels). Between 511557N 0004822E and DET: London Control (Swanwick) Freq 134.900 (FL 175 and above); Freq 120.525 (Below FL 175).
△	DETLING VOR/DME (DET)	511814.41N 0003550.19E							Extremity of L6.	



Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
L8 (RNP/RNAV)										
△	HONILEY VOR/DME (HON)	522124.04N 0013949.41W							Eastbound route only btn STAFA and HON. Extremity of L8. Intersection with L10, L15, L612, N859 and P155.	
(RNAV 5)		-146°	37.0 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.390 for traffic via L612 and N859 (FL 195 and above); Freq: 129.205 for traffic via L15 and P155 (FL 195 and above); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195).
△	STAFA	525141N 0021435W							Intersection with P18.	
(RNAV 5)		326°/ 146°	20.3 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).
△	NANTI	530815N 0023401W							Westbound route only btn NANTI and TADAL. Intersection with Y53.	
(RNAV 5)		326°/-	3.5 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 75 Class A.



ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	UMKIL	531106N 0023723W								
(RNAV 5)		332°/-	8.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	VABKA	531808N 0024410W								
(RNAV 5)		332°/-	12.2 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	ASNIP	532843N 0025426W								Intersection with L28.
(RNAV 5)		329°/-	7.8 nm		FL 245 / FL 185		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 185 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 133.050 (Below FL 195).
△	TADAL	533514N 0030135W								Extremity of L8. Intersection with L70.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓							↑	
L9 (RNP/RNAV)										
△	KONAN	510751N 0020000E							FIR Boundary. Intersection with (U)L607 (see AIP Belgium).	
(RNAV 5)		275°/ 094°	24.3 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 135 and above); Freq: 135.325 (Below FL 135).
△	DOVER VOR/DME (DVR)	510945.44N 0012132.72E							Intersection with M140.	
(RNAV 5)		282°/ 102°	13.2 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).
△	UMTUM	511227N 0010103E								
(RNAV 5)		282°/ 102°	11.9 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).
△	EMKAD	511450N 0004234E								
(RNAV 5)		282°/ 101°	15.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).
△	DIKVU	511747N 0001902E								
(RNAV 5)		281°/ 101°	10.8 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).
△	BIGGIN VOR/DME (BIG)	511951.15N 0000205.32E								
(RNAV 5)		282°/ 102°	8.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 132.165 (All Levels).
△	GOXUL	512132N 0001033W								
(RNAV 5)		282°/ 102°	36.3 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 132.165 (All Levels).
△	NORRY	512847N 0010724W								
(RNAV 5)		282°/ 102°	3.7 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 132.165 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
Δ	COMPTON VOR/DME (CPT)	512929.66N 0011310.89W								
(RNAV 5)		282°/ 102°	9.0 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
Δ	KENET	513114N 0012718W								
(RNAV 5)		282°/ 102°	9.1 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
Δ	MIMBI	513257N 0014136W								
(RNAV 5)		282°/ 102°	6.9 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
Δ	SIREN	513415N 0015229W								
(RNAV 5)		282°/ 102°	7.1 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
Δ	MALBY	513533N 0020342W								
(RNAV 5)		282°/ 102°	10.4 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between MALBY and 5 nm east of WOTAN: London Control (Swanwick) Freq: 134.750 (All Levels). Between 5 nm east of WOTAN and WOTAN: London Control (Swanwick) Freq: 134.750 (Above FL 105); Bristol Radar Freq: 136.075 (FL 105 and below).
Δ	WOTAN	513726N 0022006W								
(RNAV 5)		282°/ 102°	6.7 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.750 (Above FL 105); Bristol Radar Freq: 136.075 (FL 105 and below).
Δ	BADIM	513838N 0023040W								
(RNAV 5)		282°/ 102°	6.3 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.750 (Above FL 105); Bristol Radar Freq: 136.075 (FL 105 and below).
Δ	ALVIN	513945N 0024042W								
(RNAV 5)		282°/ 101°	10.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
									0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	ERNOK	514130N 0025644W							
(RNAV 5)	281°/ 101°	12.0 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	BRECON VOR/DME (BCN)	514331.89N 0031546.92W							
(RNAV 5)	286°/ 106°	15.0 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	UGBUD	514714N 0033910W							
(RNAV 5)	286°/ 106°	8.0 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	INRUB	514910N 0035141W							
(RNAV 5)	286°/ 106°	5.3 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 160	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick)

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	AMMAN	515026N 0035954W								
(RNAV 5)		286°/ 105°	39.8 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 129.375 (All Levels).
△	STRUMBLE VOR/DME (STU)	515940.88N 0050224.69W								
(RNAV 5)		291°/ 111°	31.3 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 129.375 (All Levels).
△	SLANY	520931N 0055032W								FIR Boundary. For continuation see AIP Ireland.
Route Remarks:										
- The area of Class C controlled airspace, base FL 195, bounded by: 520408N 0045658W - 515243N 0032310W - 514954N 0032323W - 520401N 0045652W - 520408N 0045658W, is part of L9. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
L10 (RNP/RNAV)											
△	RINTI	510158N 0013656E							FIR Boundary. Extremity of L10. Intersection with B3 and UL10 (see AIP France).		
(RNAV 5)		309°/ 129°	12.4 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 134.900 (FL 135 and above); Freq: 135.325 (Below FL 135).	
△	DOVER VOR/DME (DVR)	510945.44N 0012132.72E							Acft flying within the London TMA, at or below FL 190 and routing btn DVR and BPK, whether eastbound or westbound, are to route via DET unless instructed by ATC to route direct.		
(RNAV 5)		303°/ 123°	13.7 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).	
△	ITVIP	511714N 0010312E							Intersection with Q70.		
(RNAV 5)		303°/ 123°	40.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).	
△	LAMBOURNE VOR/DME (LAM)	513845.69N 0000906.13E									
(RNAV 5)		303°/ 123°	11.5 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).	
△	BROOKMANS PARK VOR/DME (BPK)	514459.05N 0000624.25W									
(RNAV 5)		306°/ 125°	20.2 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between BPK and 10 nm NW of BPK: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115). Between 10 nm NW of BPK and BUZAD: London Control (Swanwick) Freq: 132.605 (FL 215 and above);	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
										Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	BUZAD	515632N 0003308W								
(RNAV 5)		305°/ 125°	8.2 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	WOBUN	520110N 0004400W								
(RNAV 5)		305°/ 125°	17.1 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215).
△	DAVENTRY VOR/DME (DTY)	521048.51N 0010649.64W								Base level change is not at the usual right angle to the AWY CL but is contiguous with the base level change of the northern edge of the Daventry CTA Area 4.
(RNAV 5)		299°/ 119°	22.9 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / 6000 ft ALT	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class A. London Control (Swanwick) Freq: 134.390 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	HONILEY VOR/DME (HON)	522124.04N 0013949.41W								Eastbound route only btn WAL and HON. Intersection with L15, L612, N859 and P155.
(RNAV 5)		-141°	82.0 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between WAL and abm Crewe: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195). Between abm Crewe and abm Birmingham: London Control (Swanwick) Freq: 134.390 for traffic via L612 and N859 (FL 195 and above); Freq: 129.205 for traffic via L15 and P155 (FL 195 and above); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195). Between abm Birmingham and HON: London Control (Swanwick) Freq: 134.390 for traffic via L612 and N859 (FL 195 and above);

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 129.205 for traffic via L15 and P155 (FL 195 and above); Freq: 130.925 (Below FL 195).
△	WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W							Intersection with L151, L975, N862 and Y53.	
(RNAV 5)		307°/ 127°	8.0 nm		FL 245 / 3500 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	RIGVA	532809N 0031858W							The base level change point is not at the usual right angles to the Airway CL and is defined as straight lines joining points: 531909N 0032201W - 532621N 0032107W - 533213N 0031406W.	
(RNAV 5)		307°/ 127°	13.0 nm		FL 245 / FL 45		10 nm	even FL 240 / FL 60	odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/FL 45 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	TUVDO	533540N 0033644W								
(RNAV 5)		307°/ 127°	2.2 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	PENIL	533657N 0033949W							Intersection with L70.	
(RNAV 5)		307°/ 127°	17.5 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	LAMVI	534700N 0040358W								
(RNAV 5)		307°/ 127°	5.0 nm		FL 245 / FL 45		10 nm	even FL 240 / FL 60	odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/FL 45 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	CASEL	534952N 0041057W								
(RNAV 5)		307°/ 127°	7.8 nm		FL 245 / FL 45		10 nm	even FL 240 / FL 60	odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/FL 45 Class A. (Variable lower limit) Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	KELLY	535419N 0042151W							DRA Entry and Exit Fix. Intersection with UL10.	
(RNAV 5)		307°/ 127°	17.2 nm		FL 255 / FL 45		10 nm	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class A. (Variable lower limit) Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	ISLE OF MAN VOR/DME (IOM)	540400.72N 0044548.51W								
(RNAV 5)		308°/ 128°	14.0 nm		FL 255 / FL 45		10 nm	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. (Variable lower limit)

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Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
										Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	SLYDA	541204N 0050515W								
(RNAV 5)		308°/ 128°	20.7 nm		FL 255 / FL 45		10 nm	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	RINGA	542354N 0053416W								
(RNAV 5)		308°/ 128°	12.3 nm		FL 255 / FL 45		10 nm	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. Scottish Control (Prestwick) Freq: 123.775 (FL 105 and above); Aldergrove Radar Freq: 128.500 (Below FL 105).
△	DUFFY	543053N 0055139W								Intersection with L15.
(RNAV 5)		308°/ 127°	15.6 nm		FL 255 / FL 45		10 nm	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. Scottish Control (Prestwick) Freq: 123.775 (FL 105 and above); Aldergrove Radar Freq: 128.500 (Below FL 105).
△	BELFAST VOR/DME (BEL)	543940.12N 0061347.67W								Extremity of L10.
Route Remarks:										
- RINTI - DVR only available for EGKK departures with a FPL at FL 350 and above. CDR Category Two (CDR 2) after RINTI (FIR Boundary). Availability subject to LF-CBA1 activity. - The airspace bounded by the western edge of AWY L10, RINTI (FIR Boundary), the eastern edge of AWY N57 and the southern edge of AWY Y803 is deemed to form part of AWY L10. - During the notified hours of operation of the Isle of Man CTR/CTA the lower limit of the section of this AWY btn CASEL and SLYDA will be FL 65. - Between IOM and BEL below FL 245, L10 lies within the Strangford CTA. Within the confines of the Belfast TMA, L10 assumes the classification of the Belfast TMA. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
L15 (RNP/RNAV)											
△	BIGGIN VOR/DME (BIG)	511951.15N 0000205.32E								Eastbound route only. Extremity of L15. Intersection with L9.	
(RNAV 5)		-135°	40.0 nm		FL 245 / FL 155		10 nm		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Between 20 nm before BIG and BIG: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215). Between 35 nm before BIG and 20 nm before BIG: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 135.800 (Below FL 215). Between BETPO and 35 nm before BIG: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 121.025 (Below FL 215).	
△	BETPO	514754N 0004328W									
(RNAV 5)		-135°	17.1 nm		FL 245 / FL 115		10 nm		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 115 Class A. Between 10 nm before BETPO and BETPO: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 121.025 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165). Between FINMA and 10 nm before BETPO: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 121.025 (Below FL 215).	
△	FINMA	515947N 0010313W								Intersection with M605.	
(RNAV 5)		-135°	3.0 nm		FL 245 / FL 115		10 nm		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 115 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 121.025 (Below FL 215).	
△	PIXUP	520151N 0010640W									
(RNAV 5)		-135°	28.3 nm		FL 245 / FL 115		10 nm		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 115 Class A. London Control (Swanwick) Freq: 129.205 (FL 215 and above); Freq: 121.025 (Below FL 215).	
△	HONILEY VOR/DME (HON)	522124.04N 0013949.41W								Intersection with L10, L612, N859 and P155.	
(RNAV 5)		-134°	40.4 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick)	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
										Freq: 134.390 (Above FL 195); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195).
△	KEPAD	524835N 0022844W								Intersection with L151.
(RNAV 5)		-/133°	19.9 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 134.390 (Above FL 195); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195).
△	RISLA	530151N 0025312W								Intersection with N862.
(RNAV 5)		-/133°	14.8 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 128.050 (Below FL 195).
△	AMPIT	531139N 0031133W								
(RNAV 5)		-/133°	19.9 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 128.050 (Below FL 195).
△	MALUD	532448N 0033630W								
(RNAV 5)		-/129°	22.0 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	GIGTO	533801N 0040551W								Intersection with Q4.
(RNAV 5)		-/129°	18.3 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	SOSIM	534856N 0043030W								Intersection with L28 and UL15.
(RNAV 5)		-/129°	16.1 nm		FL 255 / FL 145		10 nm		odd FL 250 / FL 150	FL 255/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	MAKUX	535830N 0045228W								
(RNAV 5)		-/129°	30.3 nm		FL 255 / FL 145		10 nm		odd FL 250 / FL 150	FL 255/FL 195 Class C, FL 195/FL 145 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
△	PEPOD	541616N 0053409W								DRA Departure Transition Fix. Exceptionally ATC may route traffic FL 80 eastbound via L15. Intersection with L603.
(RNAV 5)		-148°	17.9 nm		FL 255 / FL 75		10 nm		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	DUFFY	543053N 0055139W								Extremity of L15.
Route Remarks:										
• Between MAKUX and DUFFY below FL 245, L15 lies within the Strangford CTA.										



Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
L18 (RNP/RNAV)									
△	LANON	522552N 0042221W							Westbound route only. Extremity of L18.
(RNAV 5)		315°/-	20 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200	Class C. London Control (Swanwick) (All Levels) Freq: 133.600.
△	BADSI	523930N 0044617W							
(RNAV 5)		315°/-	11 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160	Class C. ATS delegated to Dublin ATC.
△	ABLIN	524658N 0045933W							
(RNAV 5)		315°/-	19 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	Class C. ATS delegated to Dublin ATC.
△	IRKUM	525948N 0052239W							
(RNAV 5)		315°/-	6 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 60	Class C. ATS delegated to Dublin ATC.
△	LIPGO	530350N 0053000W							FIR Boundary. For continuation see AIP Ireland.
Route Remarks:									
- CDR Category One and Three (CDR 1 and 3) (ENR 1.1, paragraph 1.1.7 refers). CDR 1 Mon-Thu 1800-0900 Winter (Summer 1 hr earlier) and from 1700 (Winter and Summer) on Friday or the day preceding a PH to 0900 (Winter), 0800 (Summer) on Monday or the day following a PH. CDR 3 at all other times. - Activation of the North Wales MTA Southern Area beyond the published hours is permitted on weekdays, weekends and PHs (See ENR 5.2-1). During these periods of activity L18 west of LANON will not be avbl. Non availability of L18 will be notified to GAT by London Control (Swanwick) and ttc will be re-routed via AWYs L9 and M17. - See also ENR 1.1, paragraph 1.1.3.									

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
L28 (RNP/RNAV)										
△	TRENT VOR/DME (TNT)	530314.23N 0014011.89W								Westbound route only btn TNT and PENIL. ATC may allocate FL 190 on a tactical basis. Extremity of L28. Intersection with N57 and Q4.
(RNAV 5)		329°/-	13.1 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200		Class C. Scottish Control (Prestwick) Freq: 118.780 (All Levels).
△	RODOL	531417N 0015143W								Intersection with P6.
(RNAV 5)		298°/-	16.1 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200		Class C. Scottish Control (Prestwick) Freq: 118.780 (All Levels).
△	MANCHESTER VOR/DME (MCT)	532125.29N 0021544.24W								
(RNAV 5)		289°/-	24.3 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200		Class C. Scottish Control (Prestwick) Freq: 118.780 (All Levels).
△	ASNIP	532843N 0025426W								Intersection with L8.
(RNAV 5)		289°/-	28.3 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200		Class C. Scottish Control (Prestwick) Freq: 118.780 (All Levels).
△	PENIL	533657N 0033949W								Eastbound route only btn SOSIM and PENIL.
(RNAV 5)		-114°	32.4 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	SOSIM	534856N 0043030W								Extremity of L28.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
L60 (RNP/RNAV)										
△	KOLAG	530237N 0031518E							Westbound route only btn KOLAG and SOPEK. FIR Boundary. For continuation see AIP Netherlands.	
(RNAV 5)		278°/-	27.6 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. ATS delegated to Amsterdam ACC.
△	SOPEK	530632N 0023000E							Extremity of partition of L60. Intersection with L989.	
					- / -					ROUTE BREAK - THIS AIR- WAY IS NOT CONTINUOUS.
△	OTBED	531717N 0000155E							Eastbound route only btn ADELU and OTBED. Extremity of partition of L60. Intersection with Y70.	
(RNAV 5)		-100°	25.1 nm		FL 245 / FL 155		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	NISBI	532129N 0003921W							Base level change point is not at right angles to the CL of L60 and follows a perpendicular line to the CL of L603 until it reaches the southern bdry of Y70, where it then follows a perpendicular line to the CL of Y70.	
(RNAV 5)		-100°	9.8 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	DOPEK	532304N 0005532W								
(RNAV 5)		-100°	4.0 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	ARTIX	532342N 0010209W								
(RNAV 5)		-100°	6.5 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 133.800 (All levels).
△	MOGMO	532443N 0011251W							Base level change point is not at right angles to the CL of L60 and extends between 532932N 0011019W and 531954N 0011523W.	
(RNAV 5)		-100°	2.4 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
Δ	MAMUL	532505N 0011648W								Intersection with L603.
(RNAV 5)		-/100°	9.3 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
Δ	ADELU	532630N 0013213W								Extremity of L60.
Route Remarks:										
- See also ENR 1.1, paragraph 1.1.3. - The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by straight lines joining: 533059N 0010932W - 532932N 0011019W - 532958N 0011456W - 533017N 0011643W - 533059N 0010932W, is part of L60. - The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 105, bounded by straight lines joining: 533119N 0010614W - 532802N 0005436W - 532932N 0011019W - 533059N 0010932W - 533119N 0010614W, is part of L60. - The portion of airspace formed by joining positions:										
(i) Camphill Box										
532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - 531418.31N 0012448.84W - 531137N 0013631W - 532719N 0014617W, from AWY base level to an upper limit of FL 100, occasionally to FL 190 on request;										
(ii) L975 Crossing Area										
533835N 0013503W - 534007N 0011937W - 534626.98N 0011937.00W - 534308.41N 0011615.09W - 534127.82N 0010357.97W - 533059N 0010932W - 532845N 0013215W - 533835N 0013503W, from AWY base level to an upper limit of FL 120, occasionally to FL 190 on request;										
is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btm the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish Control (Prestwick).										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
L70 (RNP/RNAV)									
△	DESIG	533138N 0015334W							Intersection with L603 and L975. Extremity of L70.
(RNAV 5)	277°/ 097°	31.0 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	KOLID	533426N 0024521W							
(RNAV 5)	277°/ 096°	9.7 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 85 Class C (see Route Remarks). Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	TADAL	533514N 0030135W							
(RNAV 5)	276°/ 096°	5.0 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	Class C. Scottish Control (Prestwick) Freq: 128.050 (All Levels).
△	GUNTU	533537N 0030954W							
(RNAV 5)	276°/ 096°	17.9 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	Class C. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	PENIL	533657N 0033949W							Westbound route only btn PENIL and BAGSO. Intersection with L10.
(RNAV 5)	276°/-	10.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	BABRA	533739N 0035643W							
(RNAV 5)	276°/-	5.4 nm		FL 245 / FL 115		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 115 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	GIGTO	533801N 0040551W							
(RNAV 5)	276°/-	7.6 nm		FL 245 / FL 115		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 115 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	UNDUX	533830N 0041839W							
(RNAV 5)	276°/-	5.1 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	SOPAX	533849N 0042708W							
(RNAV 5)	276°/-	13.9 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	RAMOX	533937N 0045022W							

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
(RNAV 5)		276°/-	11.0 nm		FL 245 / FL 115		10 nm	even FL 240 / FL 120		Class C. ATS delegated to Dublin ATC Freq: 129.175.
△	OGTUG	534012N 0050850W								
(RNAV 5)		276°/-	12.6 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		Class C. ATS delegated to Dublin ATC Freq: 129.175. Dublin ATIS Freq: 124.525.
△	BAGSO	534048N 0053000W								FIR Boundary. Extremity of L70. Intersection with V14 (see AIP Ireland).
Route Remarks:										
- Between KOLID and PENIL below FL 195 ATS Route subject to short notice closure to accommodate Warton operational requirements. Aircraft will be tactically vectored by ATC. - The area bounded by 533630N 0030135W - 534016N 0030209W - 533917N 0023900W - 533630N 0030135W FL 195/FL 85 Class C. The area bounded by 533918N 0023900W - 533630N 0030136W - 533222N 0030059W - 533223N 0025907W - 533918N 0023900W FL 195/FL 145 Class C, FL 145/FL 55 Class A. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
L151 (RNP/RNAV)											
△	SITET	500600N 0000000E								FIR Boundary. Extremity of L151. Intersection with A34 and UN859 (See AIP France).	
(RNAV 5)		336°/ 156°	7.2 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Dual designation with N859 btn SITET and DRAKE. London Control (Swanwick) Freq: 135.050 (All Levels).	
△	DRAKE	501234N 0000434W									
(RNAV 5)		338°/ 158°	54.9 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between DRAKE and abm BENBO: London Control (Swanwick) Freq: 135.050 (All Levels). Between abm BENBO and MID: London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).	
△	MIDHURST VOR/DME (MID)	510314.23N 0003730.01W								Eastbound (southbound) route only btn WAL and MID.	
(RNAV 5)		-148°	29.7 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between LINDY and abm TEVSI: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135). Between abm TEVSI and 5 nm before MID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.050 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175). Between 5 nm before MID and MID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.050 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175).	
△	LINDY	512814N 0010257W									
(RNAV 5)		-148°	21.5 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between KIDLI and 5 nm south of KIDLI: London Control (Swanwick) Freq: 132.165 (FL 215 and above);	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
							↓	↑	
									Freq: 121.025 (Below FL 215). Between 5 nm south of KIDLI and abm COWLY: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125). Between abm COWLY and LINDY: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).
△	KIDLI	514617N 0012141W							Intersection with N859.
(RNAV 5)	-/148°	7.6 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 121.025 (Below FL 215).
△	NEDEX	515237N 0012820W							
(RNAV 5)	-/148°	10.7 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 121.025 (Below FL 215).
△	NANUM	520135N 0013747W							
(RNAV 5)	-/148°	3.0 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 121.025 (Below FL 215).
△	TUBSU	520406N 0014028W							
(RNAV 5)	-/148°	2.5 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 121.025 (Below FL 215).
△	DISIT	520611N 0014241W							
(RNAV 5)	-/148°	11.8 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 121.025 (Below FL 215).
△	PEPUL	521603N 0015314W							
(RNAV 5)	-/148°	10.3 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick)

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 134.390 (FL 215 and above); Freq: 121.025 (Below FL 215).
△	VIDOK	522439N 0020231W								
(RNAV 5)		-148°	18.3 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 134.390 (FL 195 and above); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195).
△	TELBA	523952N 0021907W								
(RNAV 5)		-148°	10.5 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 134.390 (FL 195 and above); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195).
△	KEPAD	524835N 0022844W								Intersection with L15.
(RNAV 5)		-147°	42.3 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Between WAL and 20 nm be- fore KEPAD: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195). Between 20 nm before KEPAD and KEPAD: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).
△	WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W								Extremity of L151.
Route Remarks:										
- Four areas of controlled airspace, Class C above FL 195 and Class A below FL 195, are part of L151: Area 1: FL 145 - FL 245, bounded by: 523853N 0022755W - 520122N 0014714W - 515949N 0015102W - 520917N 0020429W - 523253N 0023011W - 523853N 0022755W. Area 2: FL 145 - FL 195, bounded by: 520917N 0020429W - 515949N 0015102W - 515853N 0015319W - 520917N 0020429W. Area 3: FL 105 - FL 245, bounded by: 520122N 0014714W - 514408N 0012901W - 515949N 0015102W - 520122N 0014714W. Area 4: FL 105 - FL 195, bounded by: 515949N 0015102W - 514408N 0012901W - 513943N 0012646W - 514055N 0013458W - 514211N 0013537W - 515853N 0015319W - 515949N 0015102W. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓						↑		
L179 (RNP/RNAV)										
△	GILTI	513413N 0020318E							Westbound route only. FIR Boundary. For continuation see AIP Netherlands.	
(RNAV 5)		274°/-	16.6 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	ERING	513526N 0013643E								
(RNAV 5)		274°/-	12.4 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 129.605 (FL 125 and above); Freq: 135.425 (Below FL 125).
△	TOBIX	513617N 0011651E								
(RNAV 5)		274°/-	13.7 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 129.605 (FL 125 and above); Freq: 135.425 (Below FL 125).
△	TUGPO	513710N 0005452E								
(RNAV 5)		274°/-	6.3 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175).
△	TERKO	513732N 0004448E								
(RNAV 5)		274°/-	3.8 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175).
△	SIRGO	513746N 0003847E								
(RNAV 5)		274°/-	4.0 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
△	FERIT	513759N 0003221E								
(RNAV 5)		274°/-	14.5 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Between FERIT and 10 nm before LAM: London Control (Swanwick) Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175). Between 10 nm before LAM and LAM: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 118.825 (Below FL 175).
△	LAMBOURNE VOR/DME (LAM)	513845.69N 0000906.13E								Extremity of L179.
Route Remarks:										
• CDR Category One (CDR 1) between GILTI and LAM (ENR 1.1, paragraph 1.1.7 refers). CDR 1 H24. • The use of this route may be interrupted when MoD (Shoeburyness) requires the activation of Danger Areas EG D138 and D138A above ALT 13000 ft through which the route passes. These Danger Areas are activated by NOTAM. Non-availability of (U)L179 will be notified by means of the daily UK CDR Closure NOTAM and the Eurocontrol CRAM. • See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓						↑		
L180 (RNP/RNAV)										
Δ	DIKAS	514637N 0031533W							Southbound route only. Minimum flight level will be determined by EG D147 activity. ATC may allocate Odd levels on a tactical basis. Extremity of L180. Intersection with N864.	
(RNAV 5)		-232°	16.2 nm		FL 245 / FL 145		10 nm		even FL 240 / FL 160	FL 245/FL 195 Class C, FL 195/FL 145 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff ATC Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
Δ	RILES	515655N 0025522W							Extremity of L180.	

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓						↑		
L186 (RNP/RNAV)										
Δ	TURNBERRY VOR/DME (TRN)	551848.28N 0044701.89W							Westbound route only. Extremity of L186. Intersection with N562 and P600.	
(RNAV 5)		-185°	17 nm		FL 245 / 6000 ft ALT		10 nm		even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
Δ	NORBO	553545N 0044543W							Extremity of L186.	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
L603 (RNP/RNAV)										
△	LAMSO	524358N 0025940E							Eastbound route only. FIR Boundary. Extremity of L603.	
(RNAV 5)		-/102°	7.2 nm		FL 245 / FL 175		12.5 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. ATS delegated to Amsterdam ACC.
△	BUKUT	524530N 0024802E								
(RNAV 5)		-/102°	11.2 nm		FL 245 / FL 175		12.5 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. ATS delegated to Amsterdam ACC.
△	DIBAL	524750N 0023000E							Extremity of partition of L603. The extremity of L603 at DIBAL is bounded by part of a straight line btn: 524010N 0023000E - 532000N 0023000E.	
					- / -					ROUTE BREAK - THIS AIR- WAY IS NOT CONTINUOUS.
△	AMVEL	531103N 0000155W							Extremity of partition of L603.	
(RNAV 5)		-/108°	10 nm		FL 245 / FL 155		10 nm		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	ROGAG	531406N 0001745W								
(RNAV 5)		-/108°	14.6 nm		FL 245 / FL 155		10 nm		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	LAMIX	531829N 0004056W								
(RNAV 5)		-/108°	20.1 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
	EDUXO	532424N 0011301W							Base level change point is not at right angles to the CL of L603 and extends between: 531938N 0011532W and 532910N 0011030W.	
(RNAV 5)		-/108°	2.4 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	MAMUL	532505N 0011648W							Intersection with L60.	
(RNAV 5)		-/108°	11.6 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	ELNOD	532826N 0013524W							The change in the lower limit occurs along the southern limit of L975 and is not at the usual right angle to CL of the AWY.	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
(RNAV 5)		-/108°	11.3 nm		FL 245 / 5000 ft ALT		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/Alt 5000 ft Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	DESIG	533138N 0015334W								Extremity of partition of L603.
					- / -					ROUTE BREAK - THIS AIR- WAY IS NOT CONTINUOUS.
△	ISLE OF MAN VOR/DME (IOM)	540400.72N 0044548.51W								Extremity of partition of L603. Intersection with L10.
(RNAV 5)		-/116°	31.0 nm		FL 255 / FL 75		10 nm		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	PEPOD	541616N 0053409W								DRA Departure Transition Fix. Intersection with L15.
(RNAV 5)		-/133°	23.8 nm		FL 255 / FL 75		10 nm		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	LISBO	543130N 0060524W								Extremity of L603.
Route Remarks:										
- Within the confines of the Belfast TMA, L603 assumes the classification of the Belfast TMA. Between IOM and LISBO below FL 245, L603 lies within the Strangford CTA. - The portion of airspace formed by joining positions: (i) Camphill Box 532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - 531418.31N 0012448.84W - 531137N 0013631W - 532719N 0014617W, from AWY base level to an upper limit of FL 100, occasionally to FL 190 on request; (ii) L975 Crossing Area 533835N 0013503W - 534007N 0011937W - 534626.98N 0011937.00W - 534308.41N 0011615.09W - 534127.82N 0010357.97W - 533059N 0010932W - 532845N 0013215W - 533835N 0013503W, from AWY base level to an upper limit of FL 120, occasionally to FL 190 on request; is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) b/n the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish Control (Prestwick). - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks	
							↓	↑		
L608 (RNP/RNAV)										
△	SUMUM	513814N 0020628E						FIR Boundary. For continuation see AIP Netherlands. Intersection with Y6.		
(RNAV 5)		290°/ 109°	19.7 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	LOGAN	514451N 0013643E								
(RNAV 5)		289°/ 109°	18.3 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	CLACTON VOR/DME (CLN)	515054.50N 0010851.32E								Extremity of L608.
Route Remarks:										
- An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by: 515220N 0021738E - 513344N 0020255E - 513947N 0013541E - 513906N 0012500E - 515222N 0012635E - 515220N 0021738E, is part of L608. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓						↑		
L610 (RNP/RNAV)										
△	RPIX	512638N 0020000E							Westbound route only. FIR Boundary. For continuation see AIP Belgium.	
(RNAV 5)		280°/-	4.8 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	SUNUP	512731N 0015227E								
(RNAV 5)		280°/-	10 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	TEBRA	512920N 0013643E								
(RNAV 5)		280°/-	18.1 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 129.605 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	KOPUL	513232N 0010814E								
(RNAV 5)		280°/-	6.6 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 129.605 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	UNSD	513340N 0005746E								
(RNAV 5)		280°/-	12.5 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between UNSAD and 10 nm before NILON: London Control (Swanwick) Freq: 129.605 (FL 215 and above); Freq: 135.425 (Below FL 125). Between 10 nm before NILON and NILON: London Control (Swanwick) Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175).
△	NILON	513546N 0003804E								
(RNAV 5)		280°/-	1.9 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175).
△	GILDA	513606N 0003501E								
(RNAV 5)		280°/-	16.4 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick)

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175).
△	LAMBOURNE VOR/DME (LAM)	513845.69N 0000906.13E								
(RNAV 5)		295°/-	23.4 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215).
△	HEMEL	514820N 0002510W								Extremity of L610. Intersection with T420.
Route Remarks:										
• CDR Category One (CDR 1) between RAPIX and LAM (ENR 1.1, paragraph 1.1.7 refers). CDR 1 H24. • The use of this route may be interrupted when MoD (Shoeburyness) requires the activation of Danger Areas EG D138 and D138A above ALT 13000 ft through which the route passes. These Danger Areas are activated by NOTAM. Non-availability of (U)L610 will be notified by means of the daily UK CDR Closure NOTAM and the Eurocontrol CRAM. • An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 105, bounded by great circle lines joining: 512453N 0013119E - 512133N 0020000E - 511948N 0020000E - 512106N 0013052E - 512453N 0013119E, is part of L610. • See also ENR 1.1, paragraph 1.1.3.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
L612 (RNP/RNAV)										
△	XAMAB	501216N 0001553E								Southbound route only btn MID and XAMAB. FIR Boundary. Extremity of L612.
(RNAV 5)		-147°	12.2 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	HAWKE	502227N 0000525E								Intersection with M189.
(RNAV 5)		-147°	5.6 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	BENBO	502705N 0000037E								Intersection with Y47.
(RNAV 5)		-147°	18.1 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	BOGNA	504207N 0001506W								

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
(RNAV 5)		-/147°	25.5 nm		FL 245 / FL 65		10 nm		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	MIDHURST VOR/DME (MID)	510314.23N 0003730.01W								
(RNAV 5)		339°/ 159°	25.8 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 5 nm before MID and MID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175). Between WOD and 5 nm be- fore MID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105).
△	WOODLEY NDB (WOD)	512710.02N 0005243.68W								Eastbound (southbound) route only btn GOW and WOD. Intersection with M605.
(RNAV 5)		-/145°	12.0 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 10 nm before WOD and WOD: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135). Between COWLY and 10 nm before WOD: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 119.775 (Below FL 155).
△	COWLY	513658N 0010354W								Intersection with Q41.
(RNAV 5)		-/154°	24.2 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between COWLY and abm WCO: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125). Between abm WCO and EMKUK:

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 130.925 (Below FL 215).
△	EMKUK	515837N 0012115W								Intersection with Y321.
(RNAV 5)		-154°	6.1 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 130.925 (Below FL 215).
△	IXURA	520405N 0012540W								
(RNAV 5)		-154°	19.4 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 130.925 (Below FL 215).
△	HONILEY VOR/DME (HON)	522124.04N 0013949.41W								Intersection with L15.
(RNAV 5)		-159°	51.1 nm		FL 245 / FL 85		8 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between HON and abm Birmingham: London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 130.925 (Below FL 215). Between abm Birmingham and abm STAFA: London Control (Swanwick) Freq: 134.390 (FL 195 and above); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195). Between abm STAFA and LISTO: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).
△	LISTO	530836N 0021157W								Intersection with P18.
(RNAV 5)		-159°	7.1 nm		FL 245 / FL 85		8 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).
△	LOVEL	531506N 0021628W								
(RNAV 5)		-159°	14.3 nm		FL 245 / FL 85		8 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between LOVEL and abm MCT: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195). Between abm MCT and BARTN: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
△	BARTN	532814N 0022541W								
(RNAV 5)		-159°	10.2 nm		FL 245 / FL 65		8 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	CROFT	533737N 0023220W								Intersection with P16.
(RNAV 5)		-159°	9.6 nm		FL 245 / FL 65		8 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	CALDA	534627N 0023838W								
(RNAV 5)		-159°	8.9 nm		FL 245 / FL 65		8 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	OBUNI	535440N 0024433W								
(RNAV 5)		-159°	6.0 nm		FL 245 / FL 95		8 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	VAMEB	540010N 0024832W								
(RNAV 5)		-159°	15.4 nm		FL 245 / FL 145		8 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	LAKEY	541420N 0025852W								
(RNAV 5)		-159°	31.6 nm		FL 245 / FL 145		8 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	DEAN CROSS DME (DCS)	544318.88N 0032026.30W								Intersection with N57 and N864.
(RNAV 5)		-154°	18.0 nm		FL 245 / FL 95		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	BEBNI	545906N 0033514W								
(RNAV 5)		-154°	16.3 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	NAVSO	551322N 0034849W								

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
(RNAV 5)		-/154°	30.5 nm		FL 245 / 6000 ft ALT		10 nm		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	LUSIV	554002N 0041441W								
(RNAV 5)		-/154°	3.3 nm		FL 245 / 6000 ft ALT		10 nm		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	FENIK	554255N 0041731W								
(RNAV 5)		-/154°	10.7 nm		FL 245 / 6000 ft ALT		10 nm		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	GLASGOW VOR/DME (GOW)	555213.81N 0042644.61W			Extremity of L612.					
Route Remarks:										
- An area of controlled airspace, Class C above FL 195 and Class A below FL 195, lower limit FL 65, bounded by great circle lines joining: 535734N 0023258W - 535109N 0023251W - 535637N 0023646W - 535734N 0023258W, is part of L612. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, lower limit FL 95, bounded by great circle lines joining: 540234N 0023858W - 535747N 0023258W - 535734N 0023258W - 535637N 0023646W - 540207N 0024044W - 540234N 0023858W, is part of L612. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, lower limit FL 145, bounded by great circle lines joining: 540629N 0024353W - 540234N 0023858W - 540207N 0024044W - 540629N 0024353W, is part of L612. - An area of Class C controlled airspace, base level FL 195, bounded by great circle lines joining: 543637N 0032230W - 543356N 0031901W - 541053N 0030154W - 543306N 0033033W - 543637N 0032230W, is part of L612. ATS within this airspace may be delegated to BAe Warton for test flying. Variable lower limit: Daily from 0700 to 2000 (1hr earlier in summer) between BEBNI and DCS the lower limit is FL 125 making the Mnm FL (Eastbound) FL 130. - Between DCS and HON the airway is 8 nm wide with western edge 3 nm west of the centre-line. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
L613 (RNP/RNAV)										
△	SOVAT	504646N 0012800E							Westbound (northbound) route only. FIR Boundary. Extremity of L613.	
(RNAV 5)		319°/-	22.9 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 135.325 (Below FL 195).
△	SANDY	510351N 0010403E							Extremity of L613.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓						↑		
L620 (RNP/RNAV)										
△	DAWLY	503427N 0032750W								Extremity of L620. Intersection with N864.
(RNAV 5)		075°/ 255°	28.4 nm		FL 245 / FL 195		10 nm	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. London Control (Swanwick) Freq: 126.075 (All Levels).
△	BRIPO	504227N 0024500W								
(RNAV 5)		075°/ 255°	9.2 nm		FL 245 / FL 195		10 nm	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. London Control (Swanwick) Freq: 126.075 (All Levels).
△	GIBSO	504459N 0023107W								Intersection with M17.
(RNAV 5)		075°/ 255°	11.1 nm		FL 245 / FL 195		10 nm	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. London Control (Swanwick) Freq: 129.425 (All Levels).
△	BEVUP	504800N 0021420W								
(RNAV 5)		075°/ 256°	10.1 nm		FL 245 / FL 135		10 nm	odd FL 230 / FL 150	even FL 240 / FL 140	FL 245/FL 195 Class C, FL 195/FL 135 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△	ABKIM	505043N 0015858W								
(RNAV 5)		076°/ 256°	25.1 nm		FL 245 / FL 95		10 nm	odd FL 230 / FL 110	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Between ABKIM and 10 nm before SAM: London Control (Swanwick) Freq: 129.425 (All levels). Between 10 nm before SAM and SAM: London Control (Swanwick)

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 129.425 (FL 155 and above); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△	SOUTHAMPTON VOR/DME (SAM)	505718.90N 0012042.20W								Intersection with N621, N866, Q41 and Y8.
(RNAV 5)		078°/ 258°	14.0 nm		FL 245 / 5500 ft ALT		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class A. Between SAM and 5 nm before SAM: London Control (Swanwick) Freq: 129.425 (FL 155 and above); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105). Between 5 nm before SAM and HAZEL: London Control (Swanwick) Freq: 129.425 (FL 175 and above); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105).
△	HAZEL	510019N 0005904W								
(RNAV 5)		078°/ 259°	13.9 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between HAZEL and 10 nm before MID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 129.425 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105). Between 10 nm before MID and MID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 129.425 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175).
△	MIDHURST VOR/DME (MID)	510314.23N 0003730.01W								Extremity of partition of L620.
					- / -					ROUTE BREAK - THIS AIRWAY IS NOT CONTINUOUS.
△	CLACTON VOR/DME (CLN)	515054.50N 0010851.32E								Eastbound route only. Extremity of partition of L620.
(RNAV 5)		072°/-	10.9 nm		FL 245 / FL 65		10 nm	odd FL 230 / FL 70		FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
△	ARTOV	515419N 0012533E							Base level change is aligned with Clacton CTA. Intersection with M604 and P44.	
(RNAV 5)		072°/-	41.3 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).
△	REDFA	520653N 0022917E							FIR Boundary. For continuation see AIP Netherlands.	
Route Remarks:										
- An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by: 521307N 0023420E - 515220N 0021738E - 515222N 0012635E - 515904N 0012302E - 521307N 0023420E, is part of L620. - Outside the Solent CTA notified hours of operation that portion of L620 that overlies the Solent CTA has a base expressed as FL 55. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
L975 (RNP/RNAV)									
△	GOLES	533629N 0010500W							Extremity of L975. Intersection with Y70. The eastern limits of L975 at GOLES are not at right angles to the CL and extends be- tween 534149N 0010209W and 533109N 0010751W.
(RNAV 5)	262°/ 082°	5.7 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	ARPUB	533534N 0011428W							
(RNAV 5)	262°/ 082°	2.2 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	UPTON	533513N 0011803W							
(RNAV 5)	262°/ 082°	9.4 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	UNIGO	533340N 0013339W							
(RNAV 5)	262°/ 082°	12.1 nm		FL 245 / 3500 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	DESIG	533138N 0015334W							Intersection with L70 and L603.
(RNAV 5)	262°/ 082°	2.5 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	DENBY	533113N 0015740W							
(RNAV 5)	262°/ 081°	7.7 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	SONEX	532953N 0021021W							
(RNAV 5)	261°/ 081°	9.3 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	BARTN	532814N 0022541W							Intersection with P17.
(RNAV 5)	261°/ 081°	8.2 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick)

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	ASMIM	532646N 0023911W								
(RNAV 5)		261°/ 081°	17.6 nm		FL 245 / FL 55		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W								Eastbound route only btn LIFFY and WAL. Intersection with L10, L151, N862 and Y53.
(RNAV 5)		-/096°	8.0 nm		FL 245 / 3500 ft ALT		12 nm		odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	EMLIP	532408N 0032124W								The base level change point is not at the usual right angles to the CL of L975, and is defined as straight lines joining points: 531909N 0032201W - 532621N 0032107W - 533213N 0031406W.
(RNAV 5)		-/096°	9.1 nm		FL 245 / FL 45		12 nm		odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/FL 45 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	MALUD	532448N 0033630W								Intersection with L15.
(RNAV 5)		-/096°	3.9 nm		FL 245 / FL 45		12 nm		odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/FL 45 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	OSLOR	532505N 0034303W								The base level change point is not at the usual right angles to the CL of L975, and is defined as straight lines joining points: 533944N 0033153W - 533054N 0034222W - 532006N 0034339W.
(RNAV 5)		-/096°	9.0 nm		FL 245 / FL 75		12 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	ROLEX	532542N 0035804W								
(RNAV 5)		-/096°	13.1 nm		FL 245 / FL 115		12 nm		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 115 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	LYNAS	532633N 0042000W								
(RNAV 5)		-/096°	10.9 nm		FL 245 / FL 145		12 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	NATKO	532712N 0043807W								

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
(RNAV 5)		-/096°	8 nm		FL 245 / FL 145		12 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△	GINIS	532739N 0045129W								
(RNAV 5)		-/096°	11.0 nm		FL 245 / FL 115		12 nm		odd FL 230 / FL 130	Class C. ATS delegated to Dublin ATC Freq: 129.175.
△	IDEXA	532814N 0050951W								
(RNAV 5)		-/095°	12.1 nm		FL 245 / FL 35		12 nm		odd FL 230 / FL 50	Class C. AWY base is FL 35 or 3014 ft amsl, whichever is higher. Consequently, when low atmospheric pressure pre- vails, FL 40 may not be avail- able as a cruising FL. ATS delegated to Dublin ATC Freq: 129.175. Dublin ATIS Freq:124.525.
△	LIFFY	532848N 0053000W			FIR Boundary. For continuation see AIP Ireland.					

Route Remarks:

- Between WAL and LIFFY where the width is 12 nm, the AWY extends 5 nm to the south and 7 nm to the north of the CL.
- An area of Class A controlled airspace bounded by straight lines joining:

L975 Crossing Area

533835N 0013503W - 534007N 0011937W -
534626.98N 0011937.00W - 534308.41N 0011615.09W -
534127.82N 0010357.97W - 533059N 0010932W -
532845N 0013215W - 533835N 0013503W,
from AWY base level to an upper limit of FL 120, occasionally to FL 190 on request;

is notified for the purposes SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) b/n the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish Control (Prestwick).

- An area of Class C controlled airspace, base level FL 35, bounded by great circle lines joining:
531500N 0053000W - 532348N 0053000W -
532315N 0051017W - 531500N 0053000W,
is part of L975.
- See also ENR 1.1, paragraph 1.1.3.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
		↓							↑		
L980 (RNP/RNAV)											
△	ORTAC	495957N 0020018W								Eastbound route only btn ORTAC and MID. FIR Boundary. Extremity of AWY is the N and E Boundaries of the Channel Islands CTR.	
(RNAV 5)		040°/-	10.9 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).	
△	VEXEN	500822N 0014934W									
(RNAV 5)		040°/-	9.5 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).	
△	DOMUT	501543N 0014009W									
(RNAV 5)		040°/-	20.2 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).	
△	KATHY	503114N 0012000W									
(RNAV 5)		041°/-	9.5 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.440 (FL 185 and above); Freq: 127.825 (Below FL 185).	
△	ABSAV	503829N 0011029W									
(RNAV 5)		041°/-	14.0 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.440 (FL 185 and above); Freq: 127.825 (Below FL 185).	
△	AVANT	504912N 0005618W									
(RNAV 5)		041°/-	18.4 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).	
△	MIDHURST VOR/DME (MID)	510314.23N 0003730.01W									
(RNAV 5)		025°/ 205°	16.5 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 118.825 (Below FL 215).	
△	OCKHAM VOR/DME (OCK)	511818.17N 0002649.86W								Westbound route only btn Amsterdam/London FIR Bdry and OCK.	
(RNAV 5)		-/228°	30.4 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Between OCK and abm BPK: London Control (Swanwick)	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 132.165 (FL 215 and above); Freq: 118.825 (Below FL 215). Between abm BPK and LAM: London Control (Swanwick) Freq: 128.160 (All Levels).
△	LAMBOURNE VOR/DME (LAM)	513845.69N 0000906.13E								
(RNAV 5)		-/264°	12.6 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	WESUL	514015N 0002909E								
(RNAV 5)		-/264°	7.4 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	BRASO	514107N 0004100E								Due to the presence of DA EG D138 pilots should ensure that they do not fly south of track from abm CLN VOR until abm SND NDB.
(RNAV 5)		-/264°	4.0 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	MANGO	514134N 0004726E								
(RNAV 5)		-/264°	2.2 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	LIVSU	514149N 0005058E								
(RNAV 5)		-/264°	3.8 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	SABER	514214N 0005658E								
(RNAV 5)		-/264°	5 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	TRIPO	514247N 0010458E								
(RNAV 5)		-/264°	12.9 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	JACKO	514409N 0012536E								
(RNAV 5)		-/264°	6.9 nm		FL 245 / FL 65		10 nm		even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
△	LOGAN	514451N 0013643E								
(RNAV 5)		-/264°	22.9 nm		FL 245 / FL 65		10 nm		even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	XAMAN	514705N 0021327E								FIR Boundary. For continuation see AIP Netherlands. Intersection with P49.
Route Remarks:										
- Areas of controlled airspace, Class C above FL 195 and Class A below FL 195: base level FL 195, bounded by great circle lines joining: 500440N 0014420W - 500000N 0014700W - 500000N 0014301W - 500620N 0014207W - 500440N 0014420W; and base level FL 105, bounded by great circle lines joining: 500440N 0014420W - 500000N 0015018W - 500000N 0014700W - 500440N 0014420W, are parts of L980. - See also ENR 1.1, paragraph 1.1.3.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M8 (RNP/RNAV)										
△	SUBIP	502644N 0005306E								Westbound route only. FIR Boundary. Extremity of M8.
(RNAV 5)		287°/-	9.1 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.425 (FL 145 and above); Freq: 135.325 (Below FL 145).
△	ELDAX	502918N 0003930E								Intersection with N20.
(RNAV 5)		296°/-	13.1 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	WAFFU	503457N 0002059E								Extremity of M8. Intersection with Y8.
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M17 (RNP/RNAV)										
△	KUMIL	503431N 0013639W							Eastbound route only. Extremity of M17.	
(RNAV 5)		-108°	20.6 nm		FL 245 / FL 165		10 nm		even FL 240 / FL 200	FL 245/FL 195 Class C, FL 195/FL 165 Class A. London Control (Swanwick) (All Levels) Freq: 129.425.
△	BILNI	504031N 0020733W							En-route RNAV hold. Intersection with N866.	
(RNAV 5)		-108°	15.6 nm		FL 245 / FL 195		10 nm		even FL 240 / FL 200	Class C. London Control (Swanwick) (All Levels) Freq: 129.425.
△	GIBSO	504459N 0023107W							Extremity of partition of M17. Intersection with L620.	
					- / -					ROUTE BREAK - THIS AIR- WAY IS NOT CONTINUOUS.
△	STRUMBLE VOR/DME (STU)	515940.88N 0050224.69W							Westbound route only. Extremity of partition of M17.	
(RNAV 5)		336°/-	10.0 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 129.375 (All Levels).
△	PEMOB	520838N 0050941W							Intersection with N14.	
(RNAV 5)		336°/-	27.6 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 129.375 (All Levels).
△	VATRY	523316N 0053000W							FIR Boundary. For continuation see AIP Ireland.	

Route Remarks:

- **CDR Category One and Three (CDR 1 and 3) between STU and VATRY** (ENR 1.1, paragraph 1.1.7 refers). Availability subject to activity within EG D201A/F/G.
CDR 1 and 3 H24.
- Pilots who depart M17 within the confines of EG D201A are encouraged to seek a DACS from Aberporth or Swanwick Mil, as detailed at ENR 5.1.
- An area bounded by the northern edges of L9 and M17 and a straight line joining 523531N 0052241W and 520052N 0042856W, FL 195 - FL 245, is also part of M17.
Class C.
Availability of this area is subject to activity within EG D201 and is only to be used when directed by London Control (Swanwick).
- See also ENR 1.1, paragraph 1.1.3.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
M20 (RNAV)										
△	RINIS	515430N 0021921E							Westbound route only. ATC may allocate Odd levels on a tactical basis. FIR Boundary. For continuation see Netherlands AIP.	
(RNAV 5)		268°/-	16.2 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 118.480 (FL 220 and above); Freq: 135.425 (FL 210 and below).
△	IDESI	515352N 0015308E							Intersection with Y6.	
(RNAV 5)		298°/-	28.3 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 118.480 (FL 220 and above); Freq: 121.225 (FL 210 and below).
△	LAPRA	520707N 0011236E							Extremity of M20.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M84 (RNP/RNAV)										
△	KONAN	510751N 0020000E							Southbound route only. FIR Boundary. Extremity of M84.	
(RNAV 5)		-128°	29.8 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.900 (FL 135 and above); Freq: 135.325 (Below FL 135).
△	ABTUM	512604N 0012229E								
(RNAV 5)		-178°	12.7 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 129.605 (All Levels).
△	NONVA	513846N 0012144E								
(RNAV 5)		-147°	10.7 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 129.605 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
△	EVMEK	514741N 0011218E							↓	↑	
(RNAV 5)		-147°	3.9 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 129.605 (All Levels).	
△	CLACTON VOR/DME (CLN)	515054.50N 0010851.32E								Extremity of M84.	
Route Remarks:											
• See also ENR 1.1, paragraph 1.1.3.											

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M85 (RNP/RNAV)										
△	ITVIP	511714N 0010312E							Southbound route only. Extremity of M85. Intersection with L10 and Q70.	
(RNAV 5)		-163°	33.6 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 129.605 (All Levels).
△	DAGGA	514919N 0004739E							Extremity of M85.	
Route Remarks:										
- CDR Category One (CDR 1) between ITVIP and DAGGA (ENR 1.1 paragraph 1.1.7 refers). CDR 1 H24. - The use of this route may be interrupted when MOD (Shoeburyness) requires the activation of Danger Areas EG D138 and EG D138A above ALT 13000 ft through which the route passes. These Danger Areas are activated by NOTAM. Non-availability of M85 will be notified by means of the daily UK CDR Closure NOTAM and the Eurocontrol CRAM.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
M87 (RNP/RNAV)											
△	UMTUM	511227N 0010103E								Southbound route only. Extremity of M87. Intersection with L9.	
(RNAV 5)		-129°	19.0 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).	
△	EKNIV	512426N 0003731E								Extremity of M87.	

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
M140 (RNP/RNAV)											
△	MIDHURST VOR/DME (MID)	510314.23N 0003730.01W								Extremity of M140. Intersection with L620.	
(RNAV 5)		095°/ 275°	28.2 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between MID and 10 nm east of MID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175). Between 10 nm east of MID and 5 nm west of MAY: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.050 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175). Between 5 nm west of MAY and MAY: London Control (Swanwick) Freq: 128.425 (FL 175 and above); Freq: 133.175 (Below FL 175).	
△	MAYFIELD VOR/DME (MAY)	510101.86N 0000658.04E									
(RNAV 5)		079°/ 260°	32.2 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between MAY and 15 nm west of WIZAD: London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Between 15 nm west of WIZAD and WIZAD: London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.175 (Below FL 195).
△	WIZAD	510700N 0005711E								
(RNAV 5)		080°/ 260°	15.6 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between WIZAD and 8 nm west of DVR: London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.175 (Below FL 195). Between 8 nm west of DVR and DVR: London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195 to FL 135); Freq: 135.325 (Below FL 135).
△	DOVER VOR/DME (DVR)	510945.44N 0012132.72E								Eastbound route only btn DVR and VABIK. Intersection with L9.
(RNAV 5)		078°/-	24.7 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between DVR and 10 nm east of DVR: London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195 to FL 135); Freq: 135.325 (Below FL 135). Between 10 nm east of DVR and VABIK: London Control (Swanwick) Freq: 134.900 (FL 135 and above); Freq: 135.325 (Below FL 135).
△	VABIK	511447N 0020000E								FIR Boundary. Extremity of M140. Intersection with Q70 (see AIP Belgium).
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓						↑		
M183 (RNP/RNAV)										
△	COMPTON VOR/DME (CPT)	512929.66N 0011310.89W							Westbound route only btn BKY and CPT. Intersection with L9, N859 and Y321.	
(RNAV 5)		-/201°	22.8 nm		FL 245 / FL 85		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between SILVA and 5 nm north of CPT: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 121.025 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125). Between 5 nm north of CPT and CPT: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△	SILVA	515051N 0010019W							Intersection with M605.	
(RNAV 5)		-/259°	35.6 nm		FL 245 / FL 85		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between NUGBO and 5 nm west of NUGBO: London Control (Swanwick) Freq: 130.925 (FL 155 and above); Freq: 129.280 (Below FL 155). Between 5 nm west of NUGBO and 10 nm east of SILVA: London Control (Swanwick) Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125). Between 10 nm east of SILVA and SILVA: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 121.025 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	NUGBO	515822N 0000412W								
(RNAV 5)		-/259°	5 nm		FL 245 / FL 85		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 130.925 (FL 155 and above); Freq: 129.280 (Below FL 155).
△	BARKWAY VOR/DME (BKY)	515923.17N 0000342.87E							Eastbound route only btn BKY and REDFA.	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
(RNAV 5)		085°/-	4.3 nm		FL 245 / FL 135		10 nm	odd FL 230 / FL 150		FL 245/FL 195 Class C, FL 195/FL 135 Class A. London Control (Swanwick) Freq: 124.930 (FL 155 and above); Freq: 129.280 (Below FL 155).
△	ADMIS	515949N 0001036E								Intersection with M189.
(RNAV 5)		085°/-	35.4 nm		FL 245 / FL 135		10 nm	odd FL 230 / FL 150		FL 245/FL 195 Class C, FL 195/FL 135 Class A. Between ADMIS and 20 nm west of TEDSA: London Control (Swanwick) Freq: 124.930 (FL 155 and above); Freq: 129.280 (Below FL 155). Between 20 nm west of TEDSA and 5 nm west of TEDSA: London Control (Swanwick) Freq: 124.930 (FL 155 and above); Freq: 119.775 (Below FL 155). Between 5 nm west of TEDSA and TEDSA: London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 124.930 (Below FL 215 to FL 155); Freq: 121.225 (Below FL 155).
△	TEDSA	520303N 0010739E								
(RNAV 5)		085°/-	25.4 nm		FL 245 / FL 135		10 nm	odd FL 230 / FL 150		FL 245/FL 195 Class C, FL 195/FL 135 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).
△	SONDO	520506N 0014842E								
(RNAV 5)		086°/-	17.0 nm		FL 245 / FL 135		10 nm	odd FL 230 / FL 150		FL 245/FL 195 Class C, FL 195/FL 135 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).
△	SONOG	520620N 0021610E								
(RNAV 5)		086°/-	8.1 nm		FL 245 / FL 135		10 nm	odd FL 230 / FL 150		FL 245/FL 195 Class C, FL 195/FL 135 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).
△	REDFA	520653N 0022917E								FIR Boundary. Extremity of M183. Intersection with L620 (see AIP Netherlands).
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M185 (RNP/RNAV)										
△	ORTAC	495957N 0020018W							Eastbound route only btn ORTAC and MID. FIR Boundary. Extremity of M185. Not available for flight plan- ning ORTAC - ELDER. Route may be used on a tacti- cal basis under instruction from ATC only.	
(RNAV 5)		034°/-	47.4 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.825 (FL 195 and above); Freq: 129.425 (Below FL 195).
△	ELDER	503948N 0012014W								
(RNAV 5)		034°/-	7.1 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) (All Levels) Freq: 127.825.
△	BEGTO	504545N 0011408W							Intersection with N514.	
(RNAV 5)		034°/-	17.4 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) (All Levels) Freq: 127.825.
△	HAZEL	510019N 0005904W								
(RNAV 5)		078°/-	13.9 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) (All Levels) Freq: 127.825.
△	MIDHURST VOR/DME (MID)	510314.23N 0003730.01W							Mnm cruising level to be flight planned within London TMA.	
(RNAV 5)		025°/ 205°	16.5 nm		FL 245 / 3500 ft ALT		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Dual designation with L980 btn MID and OCK. London Control (Swanwick) (All Levels) Freq: 132.165.
△	OCKHAM VOR/DME (OCK)	511818.17N 0002649.86W							Eastbound route only btn OCK and BPK.	
(RNAV 5)		026°/-	29.6 nm		FL 245 / 3500 ft ALT		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. London Control (Swanwick) (All Levels) Freq: 132.165.
△	BROOKMANS PARK VOR/DME (BPK)	514459.05N 0000624.25W							Extremity of M185.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
M189 (RNP/RNAV)									
△	NEVIL	500000N 0002206W						FIR Boundary. Extremity of M189. Intersection with G27 (see AIP France).	
(RNAV 5)	038°/ 219°	11.4 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	OSPOL	500900N 0001108W							
(RNAV 5)	039°/ 219°	17.1 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	HAWKE	502227N 0000525E						Intersection with L612.	
(RNAV 5)	039°/ 219°	16.0 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	WAFFU	503457N 0002059E						Intersection with M605 and Y8.	
(RNAV 5)	039°/ 219°	11.2 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	HASTY	504342N 0003200E							
(RNAV 5)	039°/ 219°	20.9 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (All Levels).
△	LYDD VOR/DME (LYD)	505958.87N 0005243.18E							
(RNAV 5)	062°/ 242°	8.1 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Dual designation with Y803 btn LYD and DVR. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.175 (Below FL 195).
△	SANDY	510351N 0010403E							
(RNAV 5)	062°/ 242°	12.5 nm		FL 245 / FL 75		10 nm	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Dual designation with Y803 btn LYD and DVR. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 135.325 (Below FL 195).
△	DOVER VOR/DME (DVR)	510945.44N 0012132.72E							

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓	↑							
(RNAV 5)		004°/ 184°	34.5 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between DVR and 20 nm north of DVR: London Control (Swanwick) Freq: 134.900 (All Levels). Between 20 nm north of DVR and JACKO: London Control (Swanwick) Freq: 128.160 (All Levels).
△	JACKO	514409N 0012536E								
(RNAV 5)		303°/ 123°	12.4 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	CLACTON VOR/DME (CLN)	515054.50N 0010851.32E								Eastbound route only btn UNGAP and CLN.
(RNAV 5)		-/104°	37.2 nm		FL 245 / FL 85		9.5 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 128.160 (All Levels).
△	ADMIS	515949N 0001036E								Intersection with M183.
(RNAV 5)		-/104°	23.0 nm		FL 245 / FL 85		9.5 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between ADMIS and abm BKY: London Control (Swanwick) Freq: 128.160 (All Levels). Between abm BKY and POTON: London Control (Swanwick) Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	POTON	520504N 0002538W								
(RNAV 5)		-/104°	7.4 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215).
△	HEIDI	520644N 0003724W								
(RNAV 5)		-/104°	4.2 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215).
△	OLNEY	520740N 0004403W								Intersection with P166.
(RNAV 5)		-/103°	14.4 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
Δ	DAVENTRY VOR/DME (DTY)	521048.51N 0010649.64W							↓	↑	Intersection with L10 and M605.
(RNAV 5)		-137°	14.9 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215).	
Δ	UNGAP	522129N 0012339W									Extremity of M189.
Route Remarks:											
- The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by straight lines joining: 512947N 0011552E - 512257N 0011505E - 512412N 0010924E - 512441N 0010412E - 512947N 0011552E, is part of M189. - Between POTON and CLN the airway is published as 9.5 nm wide with the northern boundary 4.5 nm from the CL. - See also ENR 1.1, paragraph 1.1.3.											

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M605 (RNP/RNAV)										
△	XIDIL	502106N 0003829E							Southbound route only be- tween SFD and XIDIL. FIR Boundary. For continuation see AIP France.	
(RNAV 5)		-141°	9.2 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	HARDY	502816N 0002928E								
(RNAV 5)		-141°	8.6 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	WAFFU	503457N 0002059E							Intersection with M189.	
(RNAV 5)		-141°	13.8 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	SEAFORD VOR/DME (SFD)	504538.49N 0000718.89E								
(RNAV 5)		318°/ 138°	56.2 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above);

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 135.800 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175).
△	WOODLEY NDB (WOD)	512710.02N 0005243.68W								Intersection with L612.
(RNAV 5)		350°/ 170°	7.7 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).
△	BENSU	513444N 0005508W								Intersection with Q70.
(RNAV 5)		350°/ 170°	16.5 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	SILVA	515051N 0010019W								
(RNAV 5)		350°/ 170°	9.1 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 131.130 (FL 195 and above); Freq: 130.925 (Below FL 195).
△	FINMA	515947N 0010313W								Intersection with L15.
(RNAV 5)		350°/ 170°	11.3 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 131.130 (FL 195 and above); Freq: 130.925 (Below FL 195).
△	DAVENTRY VOR/DME (DTY)	521048.51N 0010649.64W								Intersection with Y250.
(RNAV 5)		328°/ 148°	40.6 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Between DTY and abm Birmingham: London Control (Swanwick) Freq: 131.130 (FL 195 and above); Freq: 130.925 (Below FL 195). Between abm Birmingham and PEDIG: London Control (Swanwick) Freq: 134.390 (FL 195 and above); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
△	PEDIG	524448N 0014310W								
(RNAV 5)		348°/ 168°	61.5 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between PEDIG and abm TNT: London Control (Swanwick) Freq: 134.390 (FL 195 and above); Scottish Control (Prestwick) Freq: 134.425 (Below FL 195). Between abm TNT and 533328N 0020149W: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195). Between 533328N 0020149W and POL: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	POLE HILL VOR/DME (POL)	534437.56N 0020611.98W								Extremity of M605.
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M733 (RNP/RNAV)										
△	SUBIP	502644N 0005306E							Northbound route only. FIR Boundary. Extremity of M733.	
(RNAV 5)		320°/-	7.8 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) (All Levels) Freq: 128.425.
△	BANVA	503242N 0004512E								
(RNAV 5)		320°/-	19.3 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) (All Levels) Freq: 128.425.
△	UNDUG	504724N 0002530E								
(RNAV 5)		320°/-	18.0 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) (All Levels) Freq: 128.425.
△	MAYFIELD VOR/DME (MAY)	510101.86N 0000658.04E							Extremity of M733.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
M868 (RNP/RNAV)										
△	TRENT VOR/DME (TNT)	530314.23N 0014011.89W							Eastbound route only. Extremity of M868.	
(RNAV 5)		341°/-	7.2 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Dual designation with N57 btn TNT and TIPIL. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).
△	TIPIL	531000N 0014423W								
(RNAV 5)		015°/-	11.8 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).
△	EVSON	532127N 0013949W								
(RNAV 5)		043°/-	6.8 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	ADELU	532630N 0013213W							Extremity of M868. Intersection with L60.	
Route Remarks:										
- The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by straight lines joining: 531930N 0013131W - 530517N 0013152W - 531057N 0013528W - 531903N 0013212W - 531930N 0013131W, is part of M868. - The portion of airspace formed by joining positions:										
Camphill Box										
532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - 531418.31N 0012448.84W - 531137N 0013631W - 532719N 0014617W, from AWY base level to an upper limit of FL 100, occasionally to FL 190 on request;										
is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish Control (Prestwick).										
Due to ATC operational requirements, the cruising level allocation between TNT and TIPIL is inappropriate to the MAG Track.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓							↑	
N14 (RNP/RNAV)										
△	KENET	513114N 0012718W							Westbound route only. Extremity of N14.	
(RNAV 5)		295°/-	28.0 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
△	UGNUS	514232N 0020823W								
(RNAV 5)		295°/-	16.5 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
△	OKTAD	514904N 0023246W								
(RNAV 5)		284°/-	14.6 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200		Class C. London Control (Swanwick) Freq: 134.750 (All Levels).
△	DOBEM	515211N 0025545W							Extremity of partition of N14.	
					- / -					ROUTE BREAK - THIS AIR- WAY IS NOT CONTINUOUS.
△	PEMOB	520838N 0050941W							Extremity of partition of N14.	
(RNAV 5)		290°/-	8.9 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London Control (Swanwick) Freq: 129.375 (All Levels).
△	LANPI	521115N 0052330W							Extremity of N14. Intersection with Q63.	
Route Remarks:										
- CDR Category One and Three (CDR 1 and 3) between PEMOB and LANPI (ENR 1.1, paragraph 1.1.7 refers). Availability subject to activity within EG D201F. CDR 1 and 3 H24. - An area of Class C airspace, base FL 195, bounded by great circle lines joining: 514603N 0024812W - 514418N 0023515W - 514409N 0023442W - 514539N 0024814W - 514603N 0024812W is part of N14.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
N16 (RNP/RNAV)										
△	GOODWOOD VOR/DME (GWC)	505118.78N 0004524.25W							Eastbound route only. Extremity of N16.	
(RNAV 5)		047°/-	27.6 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 134.125 (Below FL 175).
△	OTSID	511023N 0001351W							Intersection with Y321.	
(RNAV 5)		047°/-	13.8 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 134.125 (Below FL 175).
△	BIGGIN VOR/DME (BIG)	511951.15N 0000205.32E								
(RNAV 5)		349°/-	25.7 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 123.900 (Below FL 175).
△	BROOKMANS PARK VOR/DME (BPK)	514459.05N 0000624.25W								
(RNAV 5)		024°/-	15.7 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 245 and above); Freq: 135.425 (Below FL 245 to FL 175); Freq: 123.900 (Below FL 175).
△	BARKWAY VOR/DME (BKY)	515923.17N 0000342.87E							Extremity of N16.	
Route Remarks:										
• Due to ATC operational requirements, the cruising level allocation between BIG and BPK is inappropriate to the MAG Track.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
N20 (RNP/RNAV)										
△	KUNAV	503054N 0010356E							Westbound route only. FIR boundary. For continuation see AIP France.	
(RNAV 5)		264°/-	15.7 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 128.425 (FL 145 and above); Freq: 120.175 (Below FL 145).
△	ELDAX	502918N 0003930E							Intersection with M8.	
(RNAV 5)		279°/-	41.6 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	NOTGI	503510N 0002503W								
(RNAV 5)		315°/-	8.6 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	EVEXU	504116N 0003441W								
(RNAV 5)		327°/-	12.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Dual designation with N859 btn EVEXU and GWC. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	GOODWOOD VOR/DME (GWC)	505118.78N 0004524.25W							Extremity of N20.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
N34 (RNP/RNAV)										
△	NEVRI	540406N 0061611W							Northbound route only. DRA Entry Fix. FIR Boundary. For continuation see AIP Ireland.	
(RNAV 5)		005°/-	13.5 nm		FL 255 / FL 75		10 nm	odd FL 250 / FL 90		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	ABSUN	541732N 0061518W								
(RNAV 5)		006°/-	22.2 nm		FL 255 / FL 55		10 nm	odd FL 250 / FL 70		FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	BELFAST VOR/DME (BEL)	543940.12N 0061347.67W							DRA Arrival and Departure Transition Fix. Extremity of N34.	
Route Remarks:										
- An area of Class D controlled airspace, below FL 195, base FL 75 bounded by straight lines joining: 541720N 0060646W - 541711N 0060044W - 540905N 0060721W - 541720N 0060646W, is part of N34. - An area of Class D controlled airspace, below FL 195, base FL 55 bounded by straight lines joining: 542244N 0060623W - 541711N 0060044W - 541720N 0060646W - 542244N 0060623W, is part of N34. - An area of Class D controlled airspace, below FL 195, base FL 105, bounded by straight lines joining: 542244N 0060623W - 542802N 0060613W - 542610N 0060131W - 542139N 0060517W - 542244N 0060623W, is part of N34. - See also ENR 1.1, paragraph 1.1.3.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
N42 (RNP/RNAV)										
△	RETSI	523042N 0025233W							Southbound route only. Extremity of N42.	
(RNAV 5)		-/156°	25.3 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	MONTY	525334N 0031026W							Extremity of N42.	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
N57 (RNP/RNAV)										
△	DEVAL	505125N 0012800E							Northbound route only btn DEVAL and SAPCO. FIR Boundary.	
(RNAV 5)		309°/-	19.6 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 135.325 (Below FL 195).
△	SANDY	510351N 0010403E								
(RNAV 5)		309°/-	22.9 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Dual designation with N601 between SANDY and DET. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).
△	DETLING VOR/DME (DET)	511814.41N 0003550.19E								
(RNAV 5)		321°/-	26.5 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 134.900 (All Levels).
△	LAMBOURNE VOR/DME (LAM)	513845.69N 0000906.13E								
(RNAV 5)		315°/-	40.2 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Between LAM and abm BPK: London Control (Swanwick) Freq: 134.900 (All Levels). Between abm BPK and abm WOBUN: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125). Between abm WOBUN and HEIDI: Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△	HEIDI	520644N 0003724W								
(RNAV 5)		315°/-	11.7 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△	WELIN	521450N 0005108W							Intersection with T420.	
(RNAV 5)		315°/-	25.6 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Between WELIN and abm Birmingham: London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195). Between abm Birmingham and SAPCO: London Control (Swanwick) Freq: 127.105 (FL 195 and above); Scottish Control (Prestwick) Freq: 119.525 (Below FL 195).
△	SAPCO	523225N 0012125W								Intersection with Y53.
(RNAV 5)		341°/ 161°	32.9 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class A. FL 140 not available between SAPCO and TNT. London Control (Swanwick) Freq: 127.105 (Above FL 195); Scottish Control (Prestwick) Freq: 119.525 (Below FL 195).
△	TRENT VOR/DME (TNT)	530314.23N 0014011.89W								Intersection with L28 and M868.
(RNAV 5)		341°/ 161°	7.2 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Dual designation with M868 btn TNT and TIPIL. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).
△	TIPIL	531000N 0014423W								
(RNAV 5)		341°/ 161°	22.7 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).
△	DENBY	533113N 0015740W								Intersection with L975.
(RNAV 5)		341°/ 161°	14.4 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	POLE HILL VOR/DME (POL)	534437.56N 0020611.98W								Eastbound (southbound) route only btn DCS and POL. Intersection with P18.
(RNAV 5)		-/145°	10.0 nm		FL 245 / 4500 ft ALT		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/Alt 4500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	BAMEP	535242N 0021609W								
(RNAV 5)		-/145°	10.0 nm		FL 245 / FL 55		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	SETEL	540045N 0022609W								
(RNAV 5)		-/145°	6.0 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	OLPOP	540532N 0023208W								
(RNAV 5)		-/145°	10.1 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. (Variable lower limit) Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	IPNOX	541340N 0024222W								
(RNAV 5)		-/145°	37.1 nm		FL 245 / FL 95		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit) Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	DEAN CROSS DME (DCS)	544318.88N 0032026.30W								Extremity of N57.
Route Remarks:										
- An area of Class A controlled airspace, base Alt 5500 ft, upper limit FL 75, bounded by straight lines joining: 523238N 0012014W - 523406N 0011224W - 521403N 0010009W - 521355N 0010026W - 523238N 0012014W, is part of N57. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base 4500 ft Alt, upper limit FL 245, bounded by straight lines joining: 534945N 0022257W - 534613N 0021835W - 534127N 0023240W - 534529N 0023244W - 534945N 0022257W, is part of N57. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 55, upper limit FL 245, bounded by straight lines joining: 535747N 0023258W - 534945N 0022257W - 534529N 0023244W - 535747N 0023258W, is part of N57. - Daily from 0700 to 2000 (1 hr earlier in summer) btn DCS and OLPOP the lower limit is FL 125 making the Mnm FL (Southbound) FL 130. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
N90 (RNP/RNAV)											
△	SKESO	494929N 0030203W								Southbound route only. FIR Boundary. Extremity of N90. For continuation see AIP France.	
(RNAV 5)		-173°	37.1 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Western edge of AWY is 7 nm west of the CL. London Control (Swanwick) (All Levels) Freq: 126.075.	
△	NOTRO	502612N 0031021W								Intersection with Y91.	
(RNAV 5)		-188°	52.3 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Western edge of AWY is 7 nm west of the CL. Due to ATC operational re- quirements, the cruising level allocation between LAMAT and NOTRO is inappropriate to the MAG Track. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 126.075 (Above FL 165); Cardiff ATC Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) (All Levels) Freq: 134.750.	
△	LAMAT	511807N 0030103W								Extremity of N90.	
Route Remarks:											
- CDR Category One and Three (CDR 1 and 3) (ENR 1.1, paragraph 1.1.7 refers). CDR 1 and 3 1600 Fri - 0745 Mon Winter (Summer 1 hr earlier). - See also ENR 1.1, paragraph 1.1.3.											

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks	
							↓	↑		
N160 (RNP/RNAV)										
△	BOGMI	505953N 0071217W							Extremity of N160.	
(RNAV 5)		320°/ 140°	20 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) (All Levels) Freq: 132.950.
△	LEDGO	511424N 0073405W							FIR Boundary. For continuation see AIP Ireland.	
Route Remarks:										
CDR Category One and Three (CDR 1 and 3) (ENR 1.1, paragraph 1.1.7 refers). Availability subject to SWMDA activity. CDR 1 and 3 H24. - See also ENR 1.1, paragraph 1.1.3.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
N514 (RNP/RNAV)										
△	GIBSO	504459N 0023107W							Extremity of N514. Intersection with L620.	
(RNAV 5)		090°/ 270°	27.0 nm		FL 245 / FL 155		10 nm	odd FL 230 / FL 170	even FL 240 / FL 160	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△	BEWLI	504531N 0014837W								
(RNAV 5)		090°/ 270°	21.9 nm		FL 245 / FL 155		10 nm	odd FL 230 / FL 170	even FL 240 / FL 160	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Between BEWLI and 10 nm west of BEGTO: London Control (Swanwick) Freq: 129.425 (All Levels). Between 10 nm west of BEGTO and BEGTO: London Control (Swanwick) Freq: 134.440 (FL 185 and above); Freq: 127.825 (Below FL 185).
△	BEGTO	504545N 0011408W							Intersection with M185.	
(RNAV 5)		090°/ 271°	10.7 nm		FL 245 / FL 125		10 nm	odd FL 230 / FL 130	even FL 240 / FL 140	FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 134.440 (FL 185 and above); Freq: 127.825 (Below FL 185).
△	POMPI	504548N 0005715W							Extremity of N514.	
Route Remarks:										
An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base Alt 5500 ft, bounded by great circle lines joining: 505259N 0011506W - 505435N 0010335W -										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
							↓	↑	
504928N 0011713W - 505259N 0011506W, is part of N514.									
• Variable lower limit: Outside the Solent CTA notified hours of operation that portion of N514 that overlies the Solent CTA has a base expressed as FL 55.									

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
							↓	↑	
N546 (RNP/RNAV)									
△	STRUMBLE VOR/DME (STU)	515940.88N 0050224.69W						Eastbound route only. Dublin TMA Departures only. Extremity of N546.	
(RNAV 5)		-124°	27.9 nm		FL 245 / FL 145	10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) (All Levels) Freq: 129.375.
△	BAKUR	521430N 0054049W						FIR Boundary. Extremity of N546.	

Route Remarks:									
• See also ENR 1.1, paragraph 1.1.3.									

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
N560 (RNP/RNAV)									
△	GLASGOW VOR/DME (GOW)	555213.81N 0042644.61W							Extremity of N560. Intersection with L612.
(RNAV 5)	010°/ 190°	16.5 nm		FL 245 / FL 195		10 nm	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	FOYLE	560834N 0042256W							
(RNAV 5)	010°/ 190°	19.4 nm		FL 245 / FL 195		10 nm	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	ERSON	562748N 0041824W							
(RNAV 5)	010°/ 190°	14.4 nm		FL 245 / FL 125		10 nm	odd FL 230 / FL 130	even FL 240 / FL 140	FL 245/FL 195 Class C, FL 195/FL 125 Class E and TMZ. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	INBAS	564200N 0041459W							
(RNAV 5)	010°/ 191°	11.7 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110	even FL 240 / FL 120	FL 245/FL 195 Class C, FL 195/FL 105 Class E and TMZ. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	LAGAV	565335N 0041210W							
(RNAV 5)	011°/ 191°	13.9 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110	even FL 240 / FL 120	FL 245/FL 195 Class C, FL 195/FL 105 Class E and TMZ. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	NESDI	570718N 0040848W							
(RNAV 5)	011°/ 191°	5.5 nm		FL 195 / FL 105		10 nm	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	GUSSI	571247N 0040727W							
(RNAV 5)	011°/ 191°	8 nm		FL 195 / FL 95		10 nm	odd FL 190 / FL 110	even FL 180 / FL 100	Class E and TMZ. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	DAVOT	572042N 0040529W							
(RNAV 5)	011°/ 191°	12.0 nm		FL 195 / FL 95		10 nm	odd FL 190 / FL 110	even FL 180 / FL 100	Class E and TMZ. Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	RIMOL	573233N 0040230W							Intersection with Y906.
(RNAV 5)	338°/ 158°	23.1 nm		FL 195 / FL 95		10 nm	odd FL 190 / FL 110	even FL 180 / FL 100	Class E and TMZ. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	BONBY	575330N 0042036W							
(RNAV 5)	052°/ 232°	6.6 nm		FL 195 / FL 75		10 nm	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	CHINN	575751N 0041117W							

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
(RNAV 5)		052°/ 232°	45.6 nm		FL 195 / FL 75		10 nm	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	WICK VOR/DME (WIK)	582731.74N 0030601.33W								Intersection with Y904.
(RNAV 5)		015°/ 195°	30.8 nm		FL 195 / FL 75		10 nm	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	KOKAL	585735N 0025338W								Extremity of N560.
Route Remarks:										
• Transponder carriage and operation required within that part of N560 notified as Class E and TMZ. • Inverness Radar provide a radar service for tfc inbound to and outbound from Inverness via N560 during the promulgated hours of Inverness Radar as published in UK AIP AD 2. EGPE AD 2.18 (and as amended by NOTAM). Outside the hours of Inverness Radar an approach procedural service is provided by Inverness Approach. • Tfc inbound to Inverness via N560: (i) Tfc from the South has a clearance limit of GUSSI, descent clearance will be issued by Scottish Control to be level by GUSSI unless otherwise instructed by ATC. (ii) Tfc from the North has a clearance limit of BONBY, descent clearance will be issued by Scottish Control to be level by BONBY unless otherwise instructed by ATC. Scottish Control will instruct tfc when to contact Inverness Approach or Inverness Radar (122.600 MHz), this will normally be at or before 40 nm from RIMOL. • Due to ATC operational requirements, the cruising level allocation between RIMOL and BONBY is inappropriate to the MAG Track. • En-route Danger Area EG D703 to the east between RIMOL and WIK.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
N601 (RNP/RNAV)										
△	SANDY	510351N 0010403E							Northbound route only btn SANDY and DET. Extremity of N601.	
(RNAV 5)		309°/-	22.9 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Dual designation with N57 btn SANDY and DET. London Control (Swanwick) Freq: 134.900 (FL 195 and above); Freq: 120.525 (Below FL 195).
△	DETLING VOR/DME (DET)	511814.41N 0003550.19E								
(RNAV 5)		316°/ 136°	16.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between DET and 5 nm be- fore BAKER: London Control (Swanwick) Freq: 134.900 (FL 175 and above); Freq: 120.525 (Below FL 175). Between 5 nm before BAKER and BAKER: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 120.525 (Below FL 175).
△	BAKER	512942N 0001753E								
(RNAV 5)		316°/ 136°	21.5 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between BAKER and abm LAM: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 118.825 (Below FL 175). Between abm LAM and BPK: London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 129.280 (Below FL 175 to FL 115); Freq: 118.825 (Below FL 115).
△	BROOKMANS PARK VOR/DME (BPK)	514459.05N 0000624.25W							Westbound route only btn BPK and TLA.	
(RNAV 5)		330°/-	23.4 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
Δ	POTON	520504N 0002538W									
(RNAV 5)		330°/-	9.8 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215).	
Δ	BEDFO	521330N 0003348W									
(RNAV 5)		330°/-	9.4 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).	
Δ	EBOTO	522133N 0004140W									
(RNAV 5)		330°/-	17.6 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).	
Δ	PIPIN	523636N 0005630W									
(RNAV 5)		330°/-	9.2 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).	
Δ	LESTA	524427N 0010419W								Intersection with P6 and Y250.	
(RNAV 5)		330°/-	15.7 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).	
Δ	EMBOR	525748N 0011745W									
(RNAV 5)		330°/-	23.1 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).	
Δ	XAPOS	531729N 0013751W									
(RNAV 5)		330°/-	12.4 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).	
Δ	BOLBI	532800N 0014845W									
(RNAV 5)		330°/-	9.3 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 119.525 (Below FL 195).	
	ULSAX	533554N 0015700W									



ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
(RNAV 5)		329°/-	10.3 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	POLE HILL VOR/DME (POL)	534437.56N 0020611.98W								
(RNAV 5)		340°/-	7.7 nm		FL 245 / FL 95		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	NELSA	535148N 0021105W								
(RNAV 5)		340°/-	9.9 nm		FL 245 / FL 95		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	RIBEL	540058N 0021723W								
(RNAV 5)		340°/-	9.1 nm		FL 245 / FL 95		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
	ERGAB	540922N 0022312W								
(RNAV 5)		340°/-	22.3 nm		FL 245 / FL 95		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	SHAPP	543000N 0023738W								
(RNAV 5)		339°/-	13.5 nm		FL 245 / FL 95		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	ABEVI	544227N 0024629W								
(RNAV 5)		339°/-	11.0 nm		FL 245 / FL 95		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	INPIP	545236N 0025346W								
(RNAV 5)		339°/-	16.4 nm		FL 245 / FL 95		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish Control (Prestwick) Freq: 126.300 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
	UTOGU	550740N 0030443W								The change in the lower limit occurs along the straight line joining: 550858N 0030000W - 550529N 0031233W and not at the usual right angle to the AWY CL.
(RNAV 5)		339°/-	1.4 nm		FL 245 / FL 85		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	INREV	550857N 0030539W								
(RNAV 5)		339°/-	9.8 nm		FL 245 / FL 85		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	ESKDO	551756N 0031215W								
(RNAV 5)		339°/-	5.1 nm		FL 245 / FL 85		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 126.300 (All Levels).
	IPDOR	552239N 0031545W								
(RNAV 5)		339°/-	7.9 nm		FL 245 / FL 85		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class D. Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	TALLA VOR/DME (TLA)	552956.92N 0032110.20W								
(RNAV 5)		347°/ 167°	43.4 nm		FL 245 / 6000 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	GRICE	561148N 0034108W								Intersection with P600. Extremity of N601.

Route Remarks:

- **Variable lower limit:** Daily from 0700 to 2000 (1hr earlier in summer) btn ERGAB and UTOGU the lower limit is FL 125 making FL 140 the Mnm FL available.
- Three areas of controlled airspace Class C are part of N601:
 (Class C FL 115 - FL 155)
 522632N 0003702W - 522630N 0002732W -
 522106N 0002214W - 521104N 0002159W -
 522632N 0003702W.
 (Class C FL 145 - FL 245)
 522632N 0003702W - 522630N 0002732W -
 524757N 0004834W - 524523N 0005538W -
 522632N 0003702W.
 (Class C FL 195 - FL 245)
 524757N 0004834W - 524523N 0005538W -
 532003N 0013042W - 532109N 0012904W -
 532012N 0011840W - 531755N 0010606W -
 530016N 0010043W - 524757N 0004834W.
 Available H24.
- An area of Class C controlled airspace, base level FL 195 bounded by great circle lines joining:
 545610N 0024159W - 544628N 0023625W -
 541500N 0021001W - 541113N 0021858W -
 545442N 0024940W - 545610N 0024159W,
 is part of N601.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
• Btn the hours of 1700 to 0900 each day Mon - Fri and 1700 Fri to 0900 Mon + PH (1 hr earlier in summer) (See GEN 2.1, paragraph 6 for PHs) two areas of controlled airspace, Class C above FL 195 and Class D below FL 195, are part of N601. Area 1, base level FL 165, bounded by great circle lines joining: 551735N 0025427W - 551724N 0024532W - 551241N 0023052W - 545912N 0022555W - 545610N 0024159W - 551735N 0025427W. Area 2, base level FL 195, bounded by great circle lines joining: 545912N 0022555W - 541500N 0021001W - 544628N 0023625W - 545610N 0024159W - 545912N 0022555W. Part or all of these two areas of airspace may not be avbl when MoD requires access to the area. Non availability of airspace will be notified to GAT by Scottish Control (Prestwick). • An area of controlled airspace, Class C above FL 195 and Class A below FL 195, with variable lower limit as specified for N601, bounded by great circle lines joining: 550449N 0031204W - 542007N 0023955W - 544500N 0031150W - 550449N 0031204W, is part of N601. • An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base level FL 165 bounded by great circle lines joining: 551742N 0030000W - 551735N 0025427W - 545610N 0024159W - 545442N 0024940W - 550858N 0030000W - 551742N 0030000W, is part of N601. Part or all of this airspace may not be avbl when activity associated with D510, Spadeadam requires access to the area. Non availability of airspace will be notified to GAT by Scottish Control (Prestwick). • An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base level FL 85, bounded by great circle lines joining: 552700N 0030000W - 550858N 0030000W - 552358N 0031101W - 552700N 0030000W, is part of N601. • The portion of airspace formed by joining positions: Camphill Box 532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - 531418.31N 0012448.84W - 531137N 0013631W - 532719N 0014617W, from AWY base level to an upper limit of FL 100, occasionally to FL 190 on request; is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish Control (Prestwick). • Between POL and TLA the airway is 8 nm wide with eastern edge of the airway 3 nm east of the centre-line.									

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks	
							↓	↑		
N621 (RNP/RNAV)										
△	LELNA	495857N 0020623W							Westbound (southbound) route only. FIR Boundary. For continuation see AIP France.	
(RNAV 5)		-186°	15.9 nm		FL 245 / FL 195		10 nm		odd FL 230 / FL 210	Class C. London Control (Swanwick) Freq: 129.425 (All Levels).
△	MARUK	501447N 0020420W								
(RNAV 5)		-199°	10.7 nm		FL 245 / FL 195		10 nm		odd FL 230 / FL 210	Class C. London Control (Swanwick) Freq: 129.425 (All Levels).
△	BEVEL	502454N 0015907W								
(RNAV 5)		-199°	16.4 nm		FL 245 / FL 165		10 nm		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 165 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△	KAPEX	504030N 0015100W								
(RNAV 5)		-230°	25.5 nm		FL 245 / FL 155		10 nm		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△	SOUTHAMPTON VOR/DME (SAM)	505718.90N 0012042.20W								Intersection with L620.
(RNAV 5)		-214°	24 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 129.425 (FL 155 and above); Freq: 134.125 (Below FL 155).
△	GOGSI	511727N 0010002W								Extremity of N621.
Route Remarks:										
- If necessary, traffic will be radar vectored to remain 5 nm from eastern edge of EG D023 until 2000 ft above the notified level of Unusual Air Activity. - Due to Brest ACC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
N859 (RNP/RNAV)											
△	SITET	500600N 0000000E							Eastbound (southbound) route only btn CPT and SITET. FIR Boundary. Continues as UN859 and in- tersects with A34 (See AIP France).		
(RNAV 5)		-/156°	7.2 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Dual designation with L151 btn SITET and DRAKE. London Control (Swanwick) Freq: 135.050 (All Levels).	
△	DRAKE	501234N 0000434W									
(RNAV 5)		-/147°	31.7 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 25 nm before DRAKE and DRAKE: London Control (Swanwick) Freq: 135.050 (All Levels). Between INKEK and 25 nm before DRAKE: London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).	
△	INKEK	503853N 0003209W							Base level change point is not at right angles to the CL of N859 and extends between: 503606N 0003840W - 504012N 0002904W - 504114N 0002509W.		
(RNAV 5)		-/147°	2.9 nm		FL 245 / FL 65		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).	
△	EVEXU	504116N 0003441W									
(RNAV 5)		-/147°	12.1 nm		FL 245 / FL 65		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Dual designation with N20 btn EVEXU and GWC. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175).	
△	GOODWOOD VOR/DME (GWC)	505118.78N 0004524.25W									
(RNAV 5)		-/156°	26.3 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 10 nm before GWC and GWC: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175);	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 133.175 (Below FL 175). Between VAPID and 10 nm before GWC: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105).
△	VAPID	511514N 0010242W								
(RNAV 5)		-156°	15.7 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 5 nm after CPT and VAPID: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105). Between CPT and 5 nm after CPT: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).
△	COMPTON VOR/DME (CPT)	512929.66N 0011310.89W								
(RNAV 5)		343°/ 163°	10 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 165); Freq: 129.080 (Below FL 165 to FL 135); Freq: 134.125 (Below FL 135).
△	DIGUT	513901N 0011759W								
(RNAV 5)		343°/ 163°	7.6 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between DIGUT and 5 nm from DIGUT: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 133.080 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125). Between 5 nm from DIGUT and KIDLI: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 133.080 (Below FL 215).
△	KIDLI	514617N 0012141W								
		Intersection with L151.								



ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
(RNAV 5)		343°/ 163°	36.9 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between KIDLI and 10 nm from KIDLI: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 133.080 (Below FL 215). Between 10 nm from KIDLI and 13 nm before HON: London Control (Swanwick) Freq: 134.390 (FL 225 and above); Freq: 133.080 (Below FL 225). Between 13 nm before HON and HON: London Control (Swanwick) Freq: 134.390 (FL 215 and above); Freq: 133.080 (Below FL 215).
△	HONILEY VOR/DME (HON)	522124.04N 0013949.41W								Southbound route only btm SANBA and HON. Intersection with L10, L15, L612 and P155.
(RNAV 5)		-/154°	44.1 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between abm EGBB and HON: London Control (Swanwick) Freq: 134.390 (FL 195 and above); Freq: 133.080 (Below FL 195). Between 10 nm after UTUXA and abm EGBB: London Control (Swanwick) Freq: 134.390 (FL 195 and above). Scottish Control (Prestwick) Freq: 134.425 (Below FL 195). Between UTUXA and 10 nm after UTUXA: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).
△	UTUXA	530030N 0021313W								Intersection with P18.
(RNAV 5)		-/154°	8.9 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).
△	SANBA	530822N 0022003W								Extremity of N859.
Route Remarks:										
- An area of controlled Class A airspace below FL 85, base FL 65, bounded by great circle lines joining: 504625N 0003040W - 504626N 0002908W - 504132N 0002357W - 504012N 0002904W - 504140N 0002537W - 504625N 0003040W, is part of N859. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by great circle lines joining: 513911N 0012629W - 513601N 0012453W - 513640N 0013011W - 513911N 0012629W, is part of N859. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
		↓	↑								
N862 (RNP/RNAV)											
△	SKESO	494929N 0030203W							Available H24 SKESO - BHD. FIR Boundary. Continues as UN862 and in- tersects with A25, UN90 and UY29 (see AIP France).		
(RNAV 5)		334°/ 154°	11.8 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between London/Brest FIR Bdry and 500000N: Jersey Control Freq: 125.200 (All Levels).	
△	SKERY	500000N 0031023W									
(RNAV 5)		334°/ 154°	26.9 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 126.075 (All Levels).	
△	BERRY HEAD VOR/DME (BHD)	502354.98N 0032937.46W							Southbound route only btn WAL and BHD. ERNOK - BHD available only during: 1600 Fri to 0800 Mon Winter (Summer 1hr earlier). Intersection with N864.		
(RNAV 5)		-/200°	57.2 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between BHD and abm EGTE: London Control (Swanwick) Freq: 126.075 (All Levels). Between abeam EGTE and LAMAT: 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 or 126.075 (Above FL 165); Cardiff ATC Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).	
△	LAMAT	511807N 0030103W							Intersection with N90.		
(RNAV 5)		-/188°	23.6 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 or 126.075 (Above FL 165); Cardiff ATC Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).	
△	ERNOK	514130N 0025644W							Available H24 WAL - ERNOK.		
(RNAV 5)		-/188°	1.1 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600 - 2300 Winter (Summer 1hr earlier)	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
										London Control (Swanwick) Freq: 134.750 or 126.075 (Above FL 165); Cardiff ATC Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	PERUP	514234N 0025632W								
(RNAV 5)		-/184°	9.6 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 or 126.075 (Above FL 165); Cardiff ATC Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	DOBEM	515211N 0025545W								
(RNAV 5)		-/184°	4.8 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 or 126.075 (Above FL 165); Cardiff ATC Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	RILES	515655N 0025522W								Intersection with L180.
(RNAV 5)		-/185°	10.0 nm		FL 245 / FL 145		12 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	AMRAL	520653N 0025433W								
(RNAV 5)		-/185°	23.9 nm		FL 245 / FL 145		12 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	RETSI	523042N 0025233W								
(RNAV 5)		-/180°	12.0 nm		FL 245 / FL 145		12 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	NENVO	524238N 0025315W								The change in the lower limit occurs along the straight line joining: 524259N 0030447W - 524223N 0024501W and not at the usual right angle to the AWY CL.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
(RNAV 5)		-/180°	5.4 nm		FL 245 / FL 125		12 nm		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	ROBVA	524804N 0025334W								The change in the lower limit occurs along the straight line joining: 524825N 0030508W - 524749N 0024519W and not at the usual right angle to the AWY CL.
(RNAV 5)		-/180°	5.6 nm		FL 245 / FL 95		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	KARNO	525340N 0025354W								
(RNAV 5)		-/185°	8.2 nm		FL 245 / FL 95		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	RISLA	530151N 0025312W								
(RNAV 5)		-/185°	2.8 nm		FL 245 / FL 95		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	NOKIN	530436N 0025258W								
(RNAV 5)		-/156°	21.0 nm		FL 245 / FL 95		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W								Extremity of N862.
Route Remarks:										
- AWY is 12 nm wide between LAMAT and KARNO, the western edge of the AWY is 7 nm west of the CL. - Due to ATC operational requirements, the cruising level allocation between NOKIN and BHD is inappropriate to the MAG Track. - The following areas, within N862 between the airway base level and FL 195, are notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and London Control (Swanwick), Swanwick Mil and Cardiff ATC: MADLEY Gliding Area bounded by great circle lines joining: 520734N 0025744W - 520712N 0024624W - 515640N 0024718W - 515701N 0025836W - 520734N 0025744W. RAGLAN Gliding Area bounded by great circle lines joining: 515701N 0025836W - 515640N 0024718W - 515040N 0024748W - 515153N 0025901W - 515701N 0025836W. During periods of activation of these areas ATC will direct aircraft towards TALGA to remain clear of the active area.										
See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓							↑	
N863 (RNP/RNAV)										
△	KOTEM	500000N 0010314W							Eastbound (northbound) route only. FIR Boundary. For continuation see AIP France.	
(RNAV 5)		006°/-	20.2 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) (All Levels) Freq: 134.440.
△	PILIP	502003N 0010026W								
(RNAV 5)		006°/-	17.0 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) (All Levels) Freq: 134.440.
△	SUSIX	503700N 0005803W								
(RNAV 5)		006°/-	12.3 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 134.440 (FL 185 and above); Freq: 127.825 (Below FL 185 to FL 105); Freq: 133.175 (Below FL 105).
△	AVANT	504912N 0005618W							Extremity of N863.	
Route Remarks:										
- CDR Category One and Three (CDR 1 and 3) (ENR 1.1, paragraph 1.1.7 refers). CDR 1 and 3 above FL 195 H24. CDR 3 below FL 195. The use of this airway may be interrupted when MoD (Navy) requires the activation of Danger Areas EG D037 and/or D038 above ALT 19000 ft. Closures will be notified by NOTAM and CRAM. There may also be circumstances when London Control (Swanwick) is given a minimum of only 2 hours notice of Danger Area activity. Non-availability of N863 will be notified to GAT by 'Brest Control' and t/c will be routed to ORIST Y110 and L980. - Due to Brest ACC operational requirements, cruising levels are inappropriate to the MAG TR btn KOTEM and AVANT. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, lower limit FL 125, bounded by: 500000N 0011504W - 502917N 0011220W - 503350N 0010622W - 500000N 0011101W, is part of N863. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓			↑					
N864 (RNP/RNAV)										
△	BERRY HEAD VOR/DME (BHD)	502354.98N 0032937.46W								Extremity of N864. Intersection with N862.
(RNAV 5)		008°/ 188°	10.6 nm		FL 245 / FL 65	Minimum limit: 5500 ft ALT	10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 126.075 (All Levels).
△	DAWLY	503427N 0032750W								
(RNAV 5)		008°/ 188°	5.6 nm		FL 245 / FL 65	Minimum limit: 5500 ft ALT	10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 126.075 (All Levels).
△	TINAN	504000N 0032654W								
(RNAV 5)		008°/ 188°	8.6 nm		FL 245 / FL 65	Minimum limit: 5500 ft ALT	10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Between TINAN and OHD EGTE: London Control (Swanwick) Freq: 126.075 (All Levels). Between OHD EGTE and TIVER: 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 126.075 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	TIVER	504833N 0032526W								
(RNAV 5)		008°/ 188°	2.3 nm		FL 245 / FL 65	Minimum limit: 5500 ft ALT	10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 126.075 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	ATWEL	505051N 0032502W								
(RNAV 5)		008°/ 188°	10.0 nm		FL 245 / FL 65	Minimum limit: 5500 ft ALT	10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 126.075 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
										2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	MULIT	510047N 0032319W								
(RNAV 5)		008°/ 188°	10.0 nm		FL 245 / FL 65	Minimum limit: 5500 ft ALT	10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 126.075 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (All Levels).
△	EXMOR	511043N 0032135W								
(RNAV 5)		008°/ 188°	26.1 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 105 Class A, FL 105/Alt 5500 ft Class D. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 126.075 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels).
△	NUMPO	513636N 0031701W								
(RNAV 5)		008°/ 188°	7.0 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	Between NUMPO and 513834N 0031640W: FL 245/FL 195 Class C, FL 195/FL 105 Class A, FL 105/Alt 5500 ft Class D. Between 513834N 0031640W and BCN: FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels).
△	BRECON VOR/DME (BCN)	514331.89N 0031546.92W								Intersection with L9.
(RNAV 5)		004°/ 184°	3.1 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick)

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels).
△	DIKAS	514637N 0031533W								
(RNAV 5)		004°/ 184°	1.9 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class A. 0600-2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300-0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels).
△	NAVOV	514831N 0031525W								The airspace division at NAVOV is not at right angles to the AWY CL but is contiguous with the northern bdry of AWY L9.
(RNAV 5)		004°/ 184°	5.0 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300-0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels).
△	GOGIG	515330N 0031502W								
(RNAV 5)		004°/ 184°	1.2 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. 0600-2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300-0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels).
△	TOPRO	515442N 0031457W								
(RNAV 5)		004°/ 184°	2.8 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick)

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels).
△	TALGA	515730N 0031444W							Northbound route only btn TALGA and MONTY.
(RNAV 5)	004°/-	10.6 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. Between TALGA and 5 nm north of TALGA: 0600 - 2300 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 134.750 (Above FL 165); Cardiff Approach Freq: 125.850 (FL 165 and below). 2300 - 0600 Winter (Summer 1hr earlier) London Control (Swanwick) Freq: 133.600 (All Levels). Between 5 nm north of TALGA and UMOLO: London Control (Swanwick) Freq: 133.600 (All Levels).
△	UMOLO	520803N 0031357W							
(RNAV 5)	004°/-	25.2 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	NITON	523312N 0031201W							Intersection with P17.
(RNAV 5)	004°/-	10 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	OKTEM	524310N 0031115W							
(RNAV 5)	004°/-	5.4 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	NILGI	524835N 0031050W							
(RNAV 5)	005°/-	5.0 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).
△	MONTY	525334N 0031026W							
(RNAV 5)	004°/ 185°	5.4 nm		FL 245 / FL 65	Minimum limit: 5500 ft ALT	10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	GODPA	525900N 0031001W							

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
(RNAV 5)		005°/ 185°	5.0 nm		FL 245 / 4500 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 4500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	REXAM	530400N 0030937W								
(RNAV 5)		005°/ 185°	3.8 nm		FL 245 / 4500 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 4500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	IVLOD	530746N 0030919W								Change in BLCIP is delineated by a line joining positions: 531018N 0031726W and 530209N 0025131W.
(RNAV 5)		005°/ 185°	15.8 nm		FL 245 / 3000 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 3000 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W								Intersection with L10, L151, N862 and Y53.
(RNAV 5)		357°/ 177°	12.2 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	GUNTU	533537N 0030954W								
(RNAV 5)		357°/ 177°	8.3 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 133.050 (Below FL 195).
△	BILVO	534352N 0031109W								
(RNAV 5)		357°/ 177°	39.2 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Between BILVO and 5415N: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 133.050 (Below FL 195). Between 5415N and SUBUK: Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	SUBUK	542248N 0031711W								
(RNAV 5)		357°/ 177°	20.6 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	DEAN CROSS DME (DCS)	544318.88N 0032026.30W								Intersection with L612.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓	↑							
(RNAV 5)		002°/ 182°	20.1 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	ASRUS	550321N 0032045W								The change in the lower limit occurs along the great circle line joining: 550537N 0031205W - 550045N 0032924W and not at the usual right angle to the AWY CL.
(RNAV 5)		002°/ 182°	17.9 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	UNURO	552111N 0032102W								Base level change is aligned with Scottish TMA.
(RNAV 5)		002°/ 182°	8.8 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class D. Scottish Control (Prestwick) Freq: 126.300 (All Levels).
△	TALLA VOR/DME (TLA)	552956.92N 0032110.20W								
(RNAV 5)		010°/ 190°	37.5 nm		FL 245 / 6000 ft ALT		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	PIPAR	560700N 0031206W								Base level change is aligned with Scottish TMA.
(RNAV 5)		010°/ 190°	5.1 nm		FL 245 / FL 65		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	NOVBA	561200N 0031051W								
(RNAV 5)		010°/ 190°	11.3 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	IBOLU	562310N 0030803W								
(RNAV 5)		010°/ 190°	18.7 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110	even FL 240 / FL 120	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	ASNUD	564139N 0030320W								Extremity of N864. Intersection with P600.
Route Remarks:										
- Due to ATC operational requirements, the cruising level allocation between BHD and WAL and between DCS and TLA is inappropriate to the MAG Track. - An area of N864, below FL105, between a line joining 513946N 0032432W - 513838N 0031727W - 513743N 0030845W and EXMOR is Class D airspace. - The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base Alt 4500 ft, bounded by straight lines joining: 530513N 0030113W - 530209N 0025131W - 525618N 0030157W - 530513N 0030113W, is part of N864.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
							↓	↑	
- Between 2000 and 0700 daily, Winter (Summer 1hr earlier) an area of Class A controlled airspace, base FL 55 and upper limit FL 105 bounded by straight lines joining: 531733N 0031654W - 530540N 0032345W - 530348N 0031757W - 531733N 0031654W, is part of N864. - The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base Alt 3000 ft, bounded by straight lines joining: 531356N 0030030W - 530626N 0024349W - 530209N 0025131W - 530513N 0030113W - 531356N 0030030W, is part of N864. Variable lower limit: Daily from 0700 to 2000 (1hr earlier in summer) between DCS and ASRUS the lower limit is FL 125 making the Mnm FLs FL 130 (Southbound) and FL 140 (Northbound). - Between northern boundary of Scottish TMA and ASNUD, N864 is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and Scottish Control (Prestwick). - Between WAL and DCS, N864 is only available from 1800 on Fridays, or the day preceding a PH, until 0800 on Mondays, or the day following a PH, Winter (Summer 1hr earlier). For limited periods, during these times, this part of AWY N864 may be required for use by the MoD. These activities will be promulgated by Scottish Control (Prestwick) and the alternative route will be 'as directed by ATC'. - Between TLA and ASNUD, established from 0001 on Saturday to 2359 on Sunday as an alternative route when AWY P600, to the south of Perth (PTH), has been made available to Portmoak for gliding activity. However, aircraft may flight plan to use this route at any time during the above hours. At certain times, notably when the airspace is required for military use, this weekend route will not be available. In these circumstances, all of AWY P600 will be retained for use.									



ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
N867 (RNP/RNAV)										
△	GARMI	500000N 0012250W							Northbound route only. FIR Boundary. For continuation see AIP France.	
(RNAV 5)		004°/-	31.3 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).
△	KATHY	503114N 0012000W							Intersection with L980.	
(RNAV 5)		360°/-	8.6 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).
△	ELDER	503948N 0012014W							Intersection with M185.	
(RNAV 5)		360°/-	17.5 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).
△	SOUTHAMPTON VOR/DME (SAM)	505718.90N 0012042.20W							Extremity of N867.	
Route Remarks:										
• CDR Category One and Three (CDR 1 and 3) between GARMI and KATHY (ENR 1.1, paragraph 1.1.7 refers). CDR 1 and 3 above FL 195 H24. CDR 3 below FL 195. • The use of this airway may be interrupted when MoD (Navy) requires the activation of Danger Area EG D036 above ALT 19000 ft. Closures will be notified by NOTAM and CRAM. There may also be circumstances when London Control (Swanwick) is given a minimum of only 2 hours notice of Danger Area activity. Non-availability of N867 will be notified to GAT by 'Brest Control' and tfc will be routed to ORIST Y110 and L980. • Due to Brest ACC operational requirements, cruising levels are inappropriate to the MAG TR btn GARMI and SAM. • See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
P2 (RNP/RNAV)										
△	NIGIT	511847N 0011015W							Eastbound route only btn NUMPO and NIGIT. Extremity of P2.	
(RNAV 5)		-104°	15 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between 8 nm before NIGIT and NIGIT: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155). Between BEDEK and 8 nm before NIGIT: London Control (Swanwick) Freq: 134.750 (All Levels).
△	BEDEK	512215N 0013331W								
(RNAV 5)		-104°	19.4 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
△	OKESI	512636N 0020342W								
(RNAV 5)		-104°	46.9 nm		FL 245 / FL 105		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 134.750 (All Levels).
△	NUMPO	513636N 0031701W								
					- / -					ROUTE BREAK - THIS AIR- WAY IS NOT CONTINUOUS.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
Δ	STRUMBLE VOR/DME (STU)	515940.88N 0050224.69W							↓	↑	Extremity of partition of P2. Intersection with L9.
(RNAV 5)		270°/ 089°	44.6 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Between STU and the eastern boundary of the BANBA CTA (515729N 0060611W): London Control (Swanwick) Freq: 129.375 (All Levels). Between the eastern bound- ary of the BANBA CTA (515729N 0060611W) and BANBA: ATS delegated to Shannon ACC at FL 195 and above. The airspace within the BANBA CTA is Class C. (See ENR 2.1). Shannon ACC Freq: 132.150 (FL 195 and above); London Control (Swanwick) Freq: 129.375 (Below FL 195).	
Δ	BANBA	515710N 0061421W									FIR Boundary. For continuation see AIP Ireland.
Route Remarks:											
- An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 145, bounded by the southern edge of AWY L9, northern edge of P2 and FIR boundary is deemed to be part of P2. - Between NUMPO and NIGIT the southern boundary is approximately 4 nm from the CL of AWY and is co-incident with the southern boundary of Cotswold CTA 3. - See also ENR 1.1, paragraph 1.1.3.											

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
P6 (RNP/RNAV)										
△	LESTA	524427N 0010419W							Westbound route only. Extremity of P6.	
(RNAV 5)		318°/-	41.4 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200		Class C. Scottish Control (Prestwick) Freq: 118.780 (All Levels).
△	RODOL	531417N 0015143W							Extremity of partition of P6. Intersection with L28.	
					- / -					ROUTE BREAK - THIS AIR- WAY IS NOT CONTINUOUS.
△	UDEGO	535842N 0040250W							Westbound route only. Extremity of partition of P6.	
(RNAV 5)		308°/-	15.0 nm		FL 255 / FL 195		10 nm	even FL 240 / FL 200		Class C. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	DIXOV	540720N 0042338W								
(RNAV 5)		308°/-	8.8 nm		FL 255 / FL 135		10 nm	even FL 240 / FL 140		FL 255/FL 195 Class C, FL 195/FL 135 Class A. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	RUBOV	541222N 0043553W								
(RNAV 5)		307°/-	10.0 nm		FL 255 / FL 135		10 nm	even FL 240 / FL 140		FL 255/FL 195 Class C, FL 195/FL 135 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	UMOPO	541803N 0044953W								
(RNAV 5)		307°/-	20.1 nm		FL 255 / FL 75		10 nm	even FL 240 / FL 80		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	NELBO	542924N 0051810W							DRA Arrival Transition Fix.	
(RNAV 5)		291°/-	34.0 nm		FL 255 / FL 55	Minimum limit: 5000 ft ALT	10 nm	even FL 240 / FL 60		FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	BELFAST VOR/DME (BEL)	543940.12N 0061347.67W							Extremity of P6.	



ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
P16 (RNP/RNAV)										
△	NOKIN	530436N 0025258W								Extremity of P16. Intersection with N862.
(RNAV 5)		022°/ 202°	23.7 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 200	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 128.050 (FL 195 and below).
△	ASMIM	532646N 0023911W								
(RNAV 5)		022°/ 202°	11.6 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 200	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 128.050 (FL 195 and below).
△	CROFT	533737N 0023220W								Intersection with L612 and Y70. The western bdy of controlled airspace, abm CROFT, is 4.28 nm from the CL.
(RNAV 5)		022°/ 202°	25.0 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 200	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 136.575 (FL 190 and below).
△	RIBEL	540058N 0021723W								Southbound route only btn GASKO and RIBEL. Intersection with N601.
(RNAV 5)		-/225°	17.2 nm		FL 245 / FL 125		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 136.575 (FL 190 and below).
△	GASKO	541329N 0015721W								Extremity of P16.
Route Remarks:										
• Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
							IFR cruising levels max/min			
								↓	↑	
P17 (RNP/RNAV)										
△	NITON	523312N 0031201W							Northbound route only btn NITON and NOKIN. Extremity of P17.	
(RNAV 5)		022°/-	33.5 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) Freq: 133.600 (All Levels).	
△	NOKIN	530436N 0025258W							Intersection with N862 and P16.	
(RNAV 5)		036°/ 216°	12.9 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	KUXEM	531511N 0024047W								
(RNAV 5)		036°/ 216°	15.9 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 128.050 (Below FL 195).
△	BARTN	532814N 0022541W							Intersection with L612 and L975.	
(RNAV 5)		037°/ 217°	20.1 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	POLE HILL VOR/DME (POL)	534437.56N 0020611.98W							Eastbound route only btn POL and OBOXA. Intersection with N601 and P18.	
(RNAV 5)		017°/-	21.0 nm		FL 245 / FL 95		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	IPSIR	540454N 0015657W							The base level change point is not at right angles to the CL of P17 and follows an extended line from the northern ex- tremity of the Leeds Bradford CTA, through IPSIR.	
(RNAV 5)		017°/-	5.9 nm		FL 245 / FL 125		10 nm	odd FL 230 / FL 130		FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	OBOXA	541036N 0015420W							Extremity of P17.	
Route Remarks:										
• Due to ATC operational requirements, the cruising level allocation between NITON and POL is inappropriate to the MAG Track.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
P18 (RNP/RNAV)											
△	TELBA	523952N 0021907W								Extremity of P18.	
(RNAV 5)		015°/ 195°	12.2 nm		FL 245 / FL 145		10 nm	even FL 240 / FL 160	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).	
△	STAFA	525141N 0021435W								Intersection with L8.	
(RNAV 5)		007°/ 187°	8.9 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).	
△	UTUXA	530030N 0021313W								Intersection with N859.	
(RNAV 5)		007°/ 187°	8.1 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195).	
△	LISTO	530836N 0021157W								Intersection with L612.	
(RNAV 5)		007°/ 187°	36.2 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between LISTO and abm MCT: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 134.425 (Below FL 195). Between abm MCT and POL: Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).	
△	POLE HILL VOR/DME (POL)	534437.56N 0020611.98W								Intersection with N57 and P17.	
(RNAV 5)		012°/ 192°	21.5 nm		FL 245 / FL 95		14 nm	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).	
△	IDKOL	540543N 0015945W								The base level change point is not at right angles to the CL of P18 and follows an extended line from the northern ex- tremity of the Leeds Bradford CTA, through IDKOL.	
(RNAV 5)		012°/ 192°	3.2 nm		FL 245 / FL 125		14 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 136.575 (All Levels).	
△	ABKAT	540853N 0015847W									

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
(RNAV 5)		012°/ 192°	4.7 nm		FL 245 / FL 125		14 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 136.575 (All Levels).
△	GASKO	541329N 0015721W								Intersection with P16 and Y250.
(RNAV 5)		012°/ 192°	11.7 nm		FL 245 / FL 125		14 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	UVAVU	542500N 0015346W								
(RNAV 5)		012°/ 192°	8.0 nm		FL 245 / FL 105		14 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 125 Class A, FL 125/FL 105 Class D. Scottish Control (Prestwick) Freq: 124.500 (FL 225 and above); Freq: 133.800 (Below FL 225 to FL 165); Newcastle Approach Freq: 124.375 (Below FL 165).
△	TILNI	543251N 0015118W								
(RNAV 5)		012°/ 192°	10.0 nm		FL 245 / FL 75		14 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 125 Class A, FL 125/FL 75 Class D. Scottish Control (Prestwick) Freq: 124.500 (FL 225 and above); Freq: 133.800 (Below FL 225 to FL 165); Newcastle Approach Freq: 124.375 (Below FL 165).
△	GIRLI	544241N 0014811W								
(RNAV 5)		012°/ 192°	20 nm		FL 245 / FL 55		14 nm	even FL 240 / FL 60	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 125 Class A, FL 125/FL 55 Class D. Scottish Control (Prestwick) Freq: 124.500 (FL 225 and above); Freq: 133.800 (Below FL 225 to FL 165); Newcastle Approach Freq: 124.375 (Below FL 165).
△	NATEB	550218N 0014154W								Intersection with Y96.
(RNAV 5)		012°/ 192°	4.7 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	ELMUD	550656N 0014024W								
(RNAV 5)		012°/ 192°	20.3 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	ALASO	552650N 0013354W								
(RNAV 5)		350°/ 170°	15.7 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
△	RITSI	554209N 0013925W								
(RNAV 5)		350°/ 170°	12.9 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	MADAD	555447N 0014402W								
(RNAV 5)		350°/ 170°	18.4 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	NEXUS	561243N 0015041W								
(RNAV 5)		350°/ 170°	17.5 nm		FL 245 / FL 135		10 nm	even FL 240 / FL 140	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 135 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	BALID	562949N 0015707W								
(RNAV 5)		350°/ 170°	10.0 nm		FL 245 / FL 115		10 nm	even FL 240 / FL 120	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 115 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	UPGET	563935N 0020050W								
(RNAV 5)		350°/ 170°	10.0 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	OKPAL	564921N 0020435W								
(RNAV 5)		350°/ 170°	6.3 nm		FL 245 / 4500 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / FL 50	FL 245/FL 195 Class C, FL 195/Alt 4500 ft Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	RATPU	565532N 0020659W								The change in the lower limit occurs along the line joining: 565514N 0021611W - 565533N 0020635W thence anti-clockwise by the arc of a circle radius 10 nm centred on 570531N 0020740W to 565659N 0015812W and not at the usual right angle to the AWY CL.
(RNAV 5)		350°/ 170°	23.7 nm		FL 245 / FL 115		10 nm	even FL 240 / FL 120	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 115 Class D. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	ABERDEEN VOR/DME (ADN)	571837.62N 0021601.95W								Extremity of P18.
Route Remarks:										
• CDR Category One (CDR 1) between NATEB and ADN (ENR 1.1, paragraph 1.1.7 refers). CDR 1 Tue-Fri 0530-0900, and from 1500 Fri or the day preceding a PH to 1000 Mon or the day following a PH Winter (Summer 1hr earlier). Additionally available overnight May-Sep, Mon-Thu 1900-0900. (See GEN 2.1, paragraph 6 for PHs). The AWY is not avbl for use during these periods when MoD require access to the airspace. • Due to ATC operational requirements, the cruising level allocation between TELBA and ALASO is inappropriate to the MAG Track. • The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by straight lines joining: 540051N 0015409W - 535710N 0015020W - 534803N 0015310W - 534906N 0020115W - 535539N 0020919W - 540051N 0015409W,										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
is part of P18.									
- The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 95, bounded by straight lines joining: 541102N 0021850W - 540848N 0021054W - 540222N 0021251W - 541102N 0021850W, is part of P18. - The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 125, bounded by straight lines joining: 541530N 0020852W - 541310N 0020934W - 540954N 0021448W - 541102N 0021850W - 541113N 0021858W - 541530N 0020852W, is part of P18. - Two areas of Class D controlled airspace, base level FL 75 and upper limit FL 115, are part of P18: Area 1, east of P18, bounded by great circle lines joining: 565044N 0015237W - 564530N 0015349W - 565023N 0015541W - 565044N 0015237W. Area 2, west of P18, bounded by great circle lines joining: 564819N 0021329W - 564326N 0021135W - 564809N 0021455W - 564819N 0021329W. - Two areas of Class D controlled airspace, base ALT 4500 ft and upper limit FL 115, are part of P18: Area 1, east of P18, bounded by great circle lines joining: 570417N 0014929W - 565044N 0015237W - 565023N 0015541W - 565659N 0015812W thence anti-clockwise by the arc of a circle radius 10 nm centred on 570531N 0020740W to 570417N 0014929W. Area 2, west of P18, bounded by great circle lines joining: 565514N 0021611W - 564819N 0021329W - 564809N 0021455W - 565507N 0021952W - 565514N 0021611W.									



ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
P44 (RNP/RNAV)										
△	ARTOV	515419N 0012533E							Eastbound route only. Extremity of P44.	
(RNAV 5)		061°/-	10.8 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).
△	RATLO	515929N 0014055E								
(RNAV 5)		061°/-	11.2 nm		FL 245 / FL 135		10 nm	odd FL 230 / FL 150		FL 245/FL 195 Class C, FL 195/FL 135 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).
△	PIXAM	520447N 0015650E								
(RNAV 5)		062°/-	29.1 nm		FL 245 / FL 195		10 nm	odd FL 230 / FL 210		Class C. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 121.225 (Below FL 215).
△	SOMVA	521826N 0023838E							FIR Boundary. Extremity of P44.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
P49 (RNP/RNAV)										
△	XAMAN	514705N 0021327E							Westbound (northbound) route only. FIR Boundary. Extremity of P49.	
(RNAV 5)		298°/-	14.3 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A London Control (Swanwick) Freq: 118.480 (FL 220 and above); Freq: 135.425 (FL 210 and below).
△	IDESI	515352N 0015308E							Extremity of P49. Intersection with M20 and Y6.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
							↓	↑	
P87 (RNP/RNAV)									
△	BOLRO	500000N 0014129W							Northbound route only. FIR Boundary. Extremity of P87.
(RNAV 5)		004°/-	15.7 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 200	FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 127.825 (All Levels).
△	DOMUT	501543N 0014009W							Extremity of P87. Intersection with L980.
Route Remarks:									
CDR Category One and Three (CDR 1 and 3) (ENR 1.1, paragraph 1.1.7 refers). CDR 1 and 3 above FL 195 H24. CDR 3 below FL 195. - The use of this airway may be interrupted when MoD (Navy) requires the activation of Danger Area EG D036 above ALT 19000 ft. Closures will be notified by NOTAM and CRAM. There may also be circumstances when London Control (Swanwick) is given a minimum of only 2 hours notice of Danger Area activity. Non-availability of P87 will be notified to GAT by 'Brest Control' and t/c will be routed to ORIST Y110 and L980. - Due to Brest ACC operational requirements, the cruising level allocation is inappropriate to the MAG Track. - The area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 125, is part of P87: 501623N 0012910W - 500000N 0013035W - 500000N 0013344W - 501347N 0013231W - 501623N 0012910W. - See also ENR 1.1, paragraph 1.1.3.									

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
P137 (RNP/RNAV)										
△	SONDO	520506N 0014842E							Eastbound route only. Intersection with M183. Extremity of P137.	
(RNAV 5)		-112°	41.1 nm		FL 245 / FL 205		10 nm		odd FL 230 / FL 210	Class C. London Control (Swanwick) Freq: 118.480 (FL 220 and above); Freq: 121.025 (FL 210 and below).
△	UMBAG	522052N 0004657E							Extremity of P137.	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
		↓							↑		
P600 (RNP/RNAV)											
△	ROTEV	540144N 0060358W								Northbound route only btm ROTEV and BLACA. FIR Boundary.	
(RNAV 5)		029°/-	37.8 nm		FL 255 / FL 75		10 nm	odd FL 250 / FL 90		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).	
△	GOTNA	543541N 0053553W								DRA Arrival Transition Fix.	
(RNAV 5)		044°/-	23.1 nm		FL 255 / FL 55	Minimum limit: 5000 ft ALT	10 nm	odd FL 250 / FL 70		FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).	
△	BLACA	545300N 0050932W								DRA Arrival and Departure Transition Fix. Intersection with P620.	
(RNAV 5)		029°/ 209°	15.3 nm		FL 255 / FL 55	Minimum limit: 5000 ft ALT	10 nm	odd FL 250 / FL 70	even FL 240 / FL 60	FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).	
△	TUNSO	550640N 0045741W									
(RNAV 5)		029°/ 209°	5 nm		FL 255 / FL 55	Minimum limit: 5000 ft ALT	10 nm	odd FL 250 / FL 70	even FL 240 / FL 60	FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).	
△	GIRVA	551108N 0045347W								Base level change is aligned with Scottish TMA.	
(RNAV 5)		029°/ 210°	8.6 nm		FL 255 / 6000 ft ALT		10 nm	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).	
△	TURNBERRY VOR/DME (TRN)	551848.28N 0044701.89W								Intersection with UP600.	
(RNAV 5)		037°/ 218°	29.4 nm		FL 245 / 6000 ft ALT		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).	
△	FENIK	554255N 0041731W								Intersection with L612.	
(RNAV 5)		038°/ 218°	5.4 nm		FL 245 / 6000 ft ALT		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).	
△	GOSAM	554719N 0041202W									
(RNAV 5)		038°/ 218°	30.0 nm		FL 245 / 6000 ft ALT		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).	
△	GRICE	561148N 0034108W								Intersection with N601.	
(RNAV 5)		038°/ 218°	2.7 nm		FL 245 / 6000 ft ALT		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
△	ENUKU	561400N 0033819W								
(RNAV 5)		038°/ 218°	4.4 nm		FL 245 / FL 55	Minimum limit: 5000 ft ALT	10 nm	odd FL 230 / FL 70	even FL 240 / FL 60	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	EDONU	561736N 0033341W								
(RNAV 5)		038°/ 218°	11.0 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	PERTH VOR (PTH)	562632.63N 0032206.96W								The change in the lower limit occurs along the great circle lines joining: 562948N 0032900W - 562633N 0032207W (VOR PTH) - 562341N 0031445W and not at the usual right angle to the AWY CL.
(RNAV 5)		037°/ 217°	18.4 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110	even FL 240 / FL 120	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	ASNUD	564139N 0030320W								Intersection with N864.
(RNAV 5)		037°/ 217°	5.1 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110	even FL 240 / FL 120	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	GANKI	564548N 0025808W								
(RNAV 5)		037°/ 217°	10.0 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	GLESK	565400N 0024745W								
(RNAV 5)		037°/ 217°	4.1 nm		FL 245 / FL 55		10 nm	odd FL 230 / FL 70	even FL 240 / FL 60	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	NAXIL	565724N 0024326W								
(RNAV 5)		037°/ 217°	26.0 nm		FL 245 / FL 115		10 nm	odd FL 230 / FL 130	even FL 240 / FL 120	FL 245/FL 195 Class C, FL 195/FL 115 Class A. Scottish Control (Prestwick) Freq: 124.500 (All Levels).
△	ABERDEEN VOR/DME (ADN)	571837.62N 0021601.95W								Intersection with Y904 and Y905.
		068°/ 249°	26.0 nm		FL 195 / 4500 ft ALT		10 nm	odd FL 190 / FL 50	even FL 180 / FL 60	Class E and TMZ. (See Note) Within the confines of the Aberdeen CTR/CTA, P600 as- sumes the airspace classifi- cation of the Aberdeen CTR/ CTA. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	OSLEL	572858N 0013158W								

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
(RNAV 5)		069°/ 249°	9.1 nm		FL 195 / FL 105		10 nm	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	LESNI	573233N 0011622W								
(RNAV 5)		069°/ 249°	24.9 nm		FL 245 / FL 105		10 nm	odd FL 230 / FL 110	even FL 240 / FL 120	FL 245/FL 195 Class C, FL 195/FL 105 Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	BUDON	574207N 0003343W								
(RNAV 5)		069°/ 249°	30.0 nm		FL 245 / FL 195		10 nm	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	OVDAN	575321N 0001818E								Extremity of P600.
Route Remarks:										
- Between ROTEV and BLACA below FL 245, AWY P600 lies within the Strangford CTA. - An area of controlled airspace, Class C above FL 195 and Class D below FL 195, base level FL 125, bounded by straight lines joining: 550250N 0045120W - 551002N 0044501W - 550806N 0043002W - 550250N 0045120W, is part of P600. - Use of this route may be interrupted between Southern boundary of Scottish TMA and 5440N due to activities involving aircraft engaged in MoD (DPA) sponsored trials under the control of DRA West Freugh. - Areas of controlled airspace, Class C above FL 195 and Class A below FL 195: base FL 85, bounded by great circle lines joining: 562948N 0032900W - 562925N 0032930W - 562030N 0034100W - 562149N 0034418W - 562948N 0032900W; and base FL 55, bounded by great circle lines joining: 562149N 0034418W - 562030N 0034100W - 561400N 0034919W - 561400N 0040926W - 562000N 0034746W - 562149N 0034418W, and base FL 55, bounded by great circle lines joining: 561654N 0034537W - 561400N 0033819W - 561400N 0034919W - 561654N 0034537W, are parts of P600. - Intense gliding activity takes place on both sides of this AWY between the Northern Scottish TMA boundary and ADN; and this portion is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement between the British Gliding Association (BGA) and Scottish Control (Prestwick). - When gliding conditions at Portmoak are favourable the use of the portion of AWY P600 between GRICE and PTH may be suspended during daylight hours on Saturdays and Sundays. Aircraft will then be routed via AWY N864 by Scottish Control (Prestwick). - Traffic which would prefer to use AWY P600 between GRICE and PTH at weekends should FPL accordingly. When this portion of AWY is not available traffic will be tactically re-routed by Scottish Control (Prestwick) via AWY N864. - Between GRICE and PTH the AWY narrows, with the eastern edge following a non-standard alignment between the following points: 560854N 0033351W - 561400N 0033259W - 562341N 0031445W. - The area of controlled airspace, Class E and TMZ, base level Alt 4500 ft and upper limit of FL 195, bounded by straight lines joining: 572422.41N 0012815.10W - 570417.00N 0014929.00W - thence anti-clockwise by the arc of a circle radius 10 nm centred on 570531N 0020740W to 570845.00N 0015019.00W - 571754.92N 0015604.67W - 572422.41N 0012815.10W, is part of P600 (See Note). - See also ENR 1.1, paragraph 1.1.3. Note: Transponder carriage and operation required within that part of P600 notified as Class E and TMZ.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
P620 (RNP/RNAV)											
△	NIMAT	535754N 0054432W								Westbound (southbound) route only. FIR Boundary. For continuation see AIP Ireland.	
(RNAV 5)		-/209°	12.0 nm		FL 255 / FL 95		12 nm		even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 95 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).	
△	NUMPI	540840N 0053536W									
(RNAV 5)		-/209°	23.1 nm		FL 255 / FL 95		12 nm		even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 95 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).	
△	NELBO	542924N 0051810W								DRA Departure Transition Fix.	
(RNAV 5)		-/195°	24.2 nm		FL 255 / FL 95		12 nm		even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 95 Class D. Scottish Control (Prestwick) Freq: 123.775 (All Levels).	
△	BLACA	545300N 0050932W								DRA Departure Transition Fix. Extremity of P620.	
Route Remarks:											
• Btn NIMAT and BLACA below FL 245, AWY P620 lies within the Strangford CTA. • Airway is 12 nm wide with centre-line defined 5 nm from eastern edge and 7 nm from western edge. • See also ENR 1.1, paragraph 1.1.3.											

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Q3 (RNP/RNAV)										
△	OCKHAM VOR/DME (OCK)	511818.17N 0002649.86W								Eastbound (northbound) route only. Extremity of Q3.
(RNAV 5)		003°/-	30.1 nm		FL 245 / FL 175		10 nm	odd FL 230 / FL 190		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) (All Levels) Freq: 132.165.
△	HEMEL	514820N 0002510W								Extremity of Q3. Intersection with T420.

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Q4 (RNP/RNAV)										
△	EMBOR	525748N 0011745W								Westbound route only btn EMBOR and WAL. Extremity of Q4.
(RNAV 5)		293°/-	14.6 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 119.525 (FL 195 and below).
△	TRENT VOR/DME (TNT)	530314.23N 0014011.89W								Intersection with L28. FL 105 and below between TNT and WAL only available for traffic departing EGNX.
(RNAV 5)		293°/-	41.3 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 134.425 (FL 195 and below).
△	VABKA	531808N 0024410W								Intersection with L8.
(RNAV 5)		292°/-	15.3 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 134.425 (FL 195 and below).
△	WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W								Eastbound route only btn GIGTO and WAL. Intersection with L10, L975 and N864.
(RNAV 5)		-115°	21.5 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
△ IBRAR		533154N 0034111W								
(RNAV 5)		-115°	15.9 nm		FL 245 / FL 145		10 nm		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish Control (Prestwick) Freq: 133.050 (All Levels).
△ GIGTO		533801N 0040551W								Extremity of Q4.

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
Q41 (RNP/RNAV)										
△ ORTAC		495957N 0020018W								FIR Boundary. For continuation see AIP France.
(RNAV 5)		025°/ 205°	19.2 nm		FL 195 / FL 35		10 nm	odd FL 190 / FL 50	even FL 180 / FL 40	Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△ ASPEN		501734N 0014820W								
(RNAV 5)		025°/ 205°	13.5 nm		FL 245 / FL 35		10 nm	odd FL 230 / FL 50	even FL 240 / FL 40	FL 245/FL 195 Class C, FL 195/FL 35 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△ THRED		502955N 0013950W								
(RNAV 5)		025°/ 205°	5.0 nm		FL 245 / FL 55		10 nm	odd FL 230 / FL 70	even FL 240 / FL 60	FL 245/FL 195 Class C, FL 195/FL 55 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△ KUMIL		503431N 0013639W								
(RNAV 5)		025°/ 205°	6.0 nm		FL 245 / FL 55		10 nm	odd FL 230 / FL 70	even FL 240 / FL 60	FL 245/FL 195 Class C, FL 195/FL 55 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△ NEDUL		503958N 0013252W								
(RNAV 5)		025°/ 205°	19.0 nm		FL 245 / FL 55		10 nm	odd FL 230 / FL 70	even FL 240 / FL 60	FL 245/FL 195 Class C, FL 195/FL 55 Class A. London Control (Swanwick) Freq: 129.425 (All Levels).
△ SOUTHAMPTON VOR/DME (SAM)		505718.90N 0012042.20W								
(RNAV 5)		016°/ 196°	11 nm		FL 245 / FL 55		10 nm	odd FL 230 / FL 70	even FL 240 / FL 60	FL 245/FL 195 Class C, FL 195/FL 55 Class A. London Control (Swanwick) Freq: 129.425 (FL 155 and above); Freq: 134.125 (Below FL 155).
△ ETRID		510756N 0011615W								

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
(RNAV 5)		016°/ 196°	4 nm		FL 245 / FL 65		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 129.425 (FL 155 and above); Freq: 134.125 (Below FL 155).
△	PEPIS	511148N 0011437W								
(RNAV 5)		016°/ 196°	10.4 nm		FL 245 / FL 65		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△	TABEN	512149N 0011022W								
(RNAV 5)		016°/ 196°	7.2 nm		FL 245 / FL 65		10 nm	odd FL 230 / FL 70	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△	NORRY	512847N 0010724W								
(RNAV 5)		016°/ 196°	8.5 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between NORRY and abm CPT: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155). Between abm CPT and COWLY: London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 130.925 (Below FL 215).
△	COWLY	513658N 0010354W								
(RNAV 5)		016°/ 196°	14.7 nm		FL 245 / FL 85		10 nm	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	WESTCOTT NDB (WCO)	515110.51N 0005744.67W								Extremity of Q41.
Route Remarks:										
- Between ORTAC and THRED AWY base is FL 35 or 3014 ft amsl, whichever is higher. Consequently, when low atmospheric pressure prevails, FL 40 may not be available as a cruising FL. - Six areas of controlled airspace, Class C above FL 195 and Class A below FL 195, are part of Q41:										
Area 1: FL 65 - FL 245, bounded by: 512455N 0011719W - 511721N 0012030W - 512624N 0012933W - 512455N 0011719W.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
Area 2: FL 65 - FL 105, bounded by: 512624N 0012933W - 511721N 0012030W - 511617N 0012057W - 511726N 0012843W - 511837N 0012813W - 512624N 0012933W. Area 3: FL 65 - FL 115, bounded by: 511726N 0012843W - 511617N 0012057W - 510416N 0012559W - 510045N 0013053W - 505950N 0013614W - 510038N 0013541W - 511726N 0012843W. Area 4: FL 55 - FL 115, bounded by: 510416N 0012559W - 510123N 0012711W - 510045N 0013053W - 510416N 0012559W. Area 5: FL 65 - FL 95, bounded by: 510045N 0013053W - 505334N 0014051W - 505950N 0013614W - 510045N 0013053W. Area 6: FL 55 - FL 95, bounded by: 510123N 0012711W - 505859N 0012811W - 505512N 0013047W - 505334N 0014051W - 510045N 0013053W - 510123N 0012711W. Areas 2 to 6 are open daily 0630-0930 and 1730-2130 (Winter), 0445-0830 and 1630-2030 (Summer). Areas 4 and 6 - During the notified hours of operation of Solent CTA the base changes to 5500 ft ALT. See also ENR 1.1, paragraph 1.1.3.									

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Q75 (RNP/RNAV)										
△	BUZAD	515632N 0003308W							Westbound route only. Extremity of Q75. Intersection with L10 and T420.	
(RNAV 5)		-/264°	18.0 nm		FL 245 / FL 85		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	UTAVA	515847N 0000419W							Not available for flight plan- ning btn BKY and UTAVA.	
(RNAV 5)		-/264°	5 nm		FL 245 / FL 85		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 124.930 (Above FL 155); Freq: 129.280 (FL 155 and below).
△	BARKWAY VOR/DME (BKY)	515923.17N 0000342.87E							Extremity of Q75.	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓							↑	
T71 (RNP/RNAV)										
△	VAPID	511514N 0010242W							Eastbound route only. Extremity of T71. Intersection with N859.	
(RNAV 5)		-/179°	5.8 nm		FL 245 / FL 175		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) (All Levels) Freq: 132.165.
△	TEVSI	512101N 0010301W								
(RNAV 5)		-/179°	16.0 nm		FL 245 / FL 175		10 nm		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) (All Levels) Freq: 132.165.
△	COWLY	513658N 0010354W							Extremity of T71.	

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓							↑	
T256 (RNP/RNAV)										
△	DEAN CROSS DME (DCS)	544318.88N 0032026.30W							Eastbound route only. Extremity of T256. Intersection with L612, N57 and N864.	
(RNAV 5)		-/136°	19.1 nm		FL 245 / FL 95		10 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit) Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	RIPNO	545632N 0034415W							The change in the lower limit occurs along the straight line joining: 545853N 0033559W - 545410N 0035231W and not at the usual right angle to the AWY CL.	
(RNAV 5)		-/136°	17.3 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 124.825 (All Levels).
△	OSMEG	550826N 0040603W							The change in the lower limit occurs along the straight line joining: 550603N 0041419W - 551049N 0035745W and not at the usual right angle to the AWY CL.	
(RNAV 5)		-/136°	3.2 nm		FL 245 / 6000 ft ALT		10 nm		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
△	NEW GALLOWAY NDB (NGY)	551038.52N 0041007.02W							↓	↑	
(RNAV 5)		-144°	32.3 nm		FL 245 / 6000 ft ALT		10 nm		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 6000 ft Class D. Scottish Control (Prestwick) Freq: 124.825 (All Levels).	
△	NORBO	553545N 0044543W									Extremity of T256.
Route Remarks:											
- An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base level FL 95 bounded by great circle lines joining: 550045N 0032924W - 545511N 0032917W - 545853N 0033559W - 550045N 0032924W, is part of T256 and has the same variable lower limit. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base level FL 135, bounded by great circle lines joining: 550603N 0041419W - 543306N 0033033W - 543637N 0032230W - 544000N 0032654W - 550603N 0041419W, is part of T256. ATS within this airspace may be delegated to BAe Warton for test flying. - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base level FL 85, bounded by great circle lines joining: 551845N 0032945W - 550045N 0032924W - 545853N 0033559W - 551049N 0035745W - 551845N 0032945W, is part of T256. - Variable lower limit: Daily from 0700 to 2000 (1hr earlier in summer) btn DCS and RIPNO the lower limit is FL 125 making the Mnm FL (Eastbound) FL 130.											

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
T420 (RNP/RNAV)										
△	ALESO	503432N 0011332E							Northbound route only btn ALESO and WELIN. FIR Boundary. For continuation see AIP France.	
(RNAV 5)		315°/-	24.0 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).
△	ROTNO	505126N 0004641E							Unless otherwise instructed by ATC, en-route holding at Lydd will be a race-track pattern on an axis of 320° MAG turning right at the VOR at levels up to and including FL 140; acft holding above FL 140 will turn left.	
(RNAV 5)		315°/-	9.5 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).
△	ETVAX	505807N 0003556E								

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓	↑							
(RNAV 5)		315°/-	8.5 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).
△	TIGER	510402N 0002622E								
(RNAV 5)		316°/-	22 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).
△	BIGGIN VOR/DME (BIG)	511951.15N 0000205.32E								Intersection with L9.
(RNAV 5)		330°/-	16.0 nm		FL 245 / 3500 ft ALT		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. London Control (Swanwick) Freq: 132.165 (All Levels).
△	FINCH	513336N 0001059W								
(RNAV 5)		330°/-	17.2 nm		FL 245 / 3500 ft ALT		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Between FINCH and abm BPK: London Control (Swanwick) Freq: 132.165 (All Levels). Between abm BPK and HEMEL: London Control (Swanwick) Freq: 127.105 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	HEMEL	514820N 0002510W								
(RNAV 5)		330°/-	9.6 nm		FL 245 / 5500 ft ALT		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/Alt 5500 ft Class A. London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125).
△	BUZAD	515632N 0003308W								Intersection with L10.
(RNAV 5)		330°/-	13.0 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between BUZAD and 5 nm before OLNEY: London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195 to FL 165); Freq: 131.130 (Below FL 165 to FL 125); Freq: 119.775 (Below FL 125). Between 5 nm before OLNEY and OLNEY: London Control (Swanwick) Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
△	OLNEY	520740N 0004403W								
(RNAV 5)		330°/-	8.4 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 127.105 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	WELIN	521450N 0005108W								Intersection with N57.
(RNAV 5)		330°/ 149°	16.8 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. London Control (Swanwick) Freq: 127.105 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	AKUPA	522912N 0010528W								Intersection with Y250.
(RNAV 5)		329°/ 149°	5.1 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. London Control (Swanwick) Freq: 127.105 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	TIMPO	523332N 0010950W								
(RNAV 5)		329°/ 149°	10.0 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. London Control (Swanwick) Freq: 127.105 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	ELVOS	524201N 0011825W								
(RNAV 5)		329°/ 149°	25.0 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. London Control (Swanwick) Freq: 127.105 (Above FL 195); Scottish Control (Prestwick) Freq: 119.525 (FL 195 and below).
△	TRENT VOR/DME (TNT)	530314.23N 0014011.89W								Extremity of T420. Intersection with L28.
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										



ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
T421 (RNP/RNAV)										
Δ	KUNAV	503054N 0010356E							Northbound route only. FIR Boundary. For continuation see AIP France.	
(RNAV 5)		322°/-	32.2 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).
Δ	NIVKO	505606N 0003228E								
(RNAV 5)		322°/-	10.5 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).
Δ	BISRU	510418N 0002203E								
(RNAV 5)		322°/-	20 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London Control (Swanwick) Freq: 128.425 (FL 195 and above); Freq: 120.175 (Below FL 195).
Δ	BIGGIN VOR/DME (BIG)	511951.15N 0000205.32E							Extremity of T421.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks	
								↓	↑		
Y4 (RNP/RNAV)											
△	ODROB	513915N 0015445E							Westbound (southbound) route only. Extremity of Y4. Intersection with Y76.		
(RNAV 5)		-/206°	30.2 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 118.480 (FL 220 and above); Freq: 121.025 (FL 210 and below).	
△	SONOG	520620N 0021610E								Extremity of Y4.	
Route Remarks:											
The northern limits of Y4 are bounded by a perpendicular line to the CL of Y4 at SONOG to a point intersecting the northern bdry of L620, then westwards along the northern bdry of L620.											

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y6 (RNP/RNAV)										
△	SUMUM	513814N 0020628E							Westbound (northbound) route only. FIR Boundary. Extremity of Y6.	
(RNAV 5)		332°/-	2.7 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	TOSVA	514037N 0020426E								
(RNAV 5)		332°/-	15 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	IDESI	515352N 0015308E							Intersection with M20.	
(RNAV 5)		332°/-	29.8 nm		FL 245 / FL 165		10 nm	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 165 Class A. London Control (Swanwick) Freq: 133.940 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	BANEM	522008N 0013019E							Extremity of Y6.	
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y8 (RNP/RNAV)										
△	KUNAV	503054N 0010356E								Westbound route only btn KUNAV and WAFFU. FIR Boundary. Extremity of Y8.
(RNAV 5)		279°/-	12.1 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 128.425 (FL 145 and above); Freq: 135.325 (Below FL 145).
△	BANVA	503242N 0004512E								Intersection with M733.
(RNAV 5)		279°/-	15.6 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	WAFFU	503457N 0002059E								
(RNAV 5)		292°/ 111°	45.3 nm		FL 245 / FL 95		10 nm	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	GOODWOOD VOR/DME (GWC)	505118.78N 0004524.25W								
(RNAV 5)		286°/ 106°	23.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 132.165 (FL 215 and above); Freq: 135.800 (Below FL 215 to FL 175); Freq: 134.125 (Below FL 175).
△	SOUTHAMPTON VOR/DME (SAM)	505718.90N 0012042.20W								Extremity of Y8.
Route Remarks:										
• See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y47 (RNP/RNAV)										
△	DRAKE	501234N 0000434W							Southbound route only. Extremity of Y47.	
(RNAV 5)		-193°	14.9 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 135.050 (All Levels).
△	BENBO	502705N 0000037E							Intersection with L612.	
(RNAV 5)		-193°	19.1 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	SEAFORD VOR/DME (SFD)	504538.49N 0000718.89E								
(RNAV 5)		-180°	15.4 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 135.050 (FL 175 and above); Freq: 133.175 (Below FL 175).
△	MAYFIELD VOR/DME (MAY)	510101.86N 0000658.04E							Extremity of Y47.	
Route Remarks:										
• Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y53 (RNP/RNAV)										
△	SAPCO	523225N 0012125W							Extremity of Y53.	
(RNAV 5)		314°/ 134°	18.1 nm		FL 245 / FL 75		10 nm	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. For flight planning purposes the portion of AWY Y53 btn SAPCO and PEDIG is for westbound flights only which are unable to route on AWY N601, exceptionally ATC may clear t/c eastbound. London Control (Swanwick) Freq: 127.105 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	PEDIG	524448N 0014310W								
(RNAV 5)		310°/ 130°	27.2 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
							↓	↑	
									London Control (Swanwick) Freq: 134.390 (Above FL 195); Scottish Control (Prestwick) Freq: 134.425 (FL 195 and below).
△	NUGRA	530146N 0021814W							
(RNAV 5)	306°/ 126°	11.5 nm		FL 245 / FL 65		10 nm	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London Control (Swanwick) Freq: 134.390 (Above FL 195); Scottish Control (Prestwick) Freq: 134.425 (FL 195 and below).
△	NANTI	530815N 0023401W							
(RNAV 5)	309°/ 129°	3.1 nm		FL 245 / 3500 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / 5000 ft ALT	FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 128.050 (FL 195 and below).
△	MOGTA	531008N 0023810W							
(RNAV 5)	309°/ 129°	8.5 nm		FL 245 / 3500 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / 5000 ft ALT	FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 128.050 (FL 195 and below).
△	EKLAD	531514N 0024929W							
(RNAV 5)	309°/ 128°	13.9 nm		FL 245 / 3500 ft ALT		10 nm	even FL 240 / FL 60	odd FL 230 / 5000 ft ALT	FL 245/FL 195 Class C, FL 195/Alt 3500 ft Class A. Scottish Control (Prestwick) Freq: 118.780 (Above FL 195); Freq: 128.050 (FL 195 and below).
△	WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W							Intersection with L10. Extremity of Y53.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes							
Significant Point Name		Significant Point Coordinates							
(RNP/RNAV Type)	Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
							IFR cruising levels max/min		
							↓	↑	
Y70 (RNP/RNAV)									
△	BODSO	530308N 0020541E							Extremity of Y70. Intersection with L17.
(RNAV 5)	281°/ 101°	55.3 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London Control (Swanwick) Freq: 128.125 (All Levels).
△	SUPEL	531340N 0003528E							
(RNAV 5)	281°/ 101°	20.5 nm		FL 245 / FL 175		10 nm	even FL 240 / FL 180	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	OTBED	531717N 0000155E							The base level change south of OTBED to the southern limits of Y70 is at a perpen- dicular line to the CL of L60.
(RNAV 5)	297°/ 117°	15.4 nm		FL 245 / FL 155		10 nm	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	VEGUS	532401N 0002111W							
(RNAV 5)	297°/ 117°	9.0 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	SIVBU	532755N 0003444W							
(RNAV 5)	296°/ 116°	8.4 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. During Hibaldstow operations acft flying below FL 160 may occasionally be routed by ATC around parachute activity. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	GIPLO	533131N 0004723W							Base level change point is not at right angles to the CL of Y70 and extends between 533619N 0004448W and 532643N 0004958W.
(RNAV 5)	296°/ 116°	11.6 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	GOLES	533629N 0010500W							Westbound route only btn GOLES and KOLID. Base level change point is not at right angles to the CL of Y70 and extends between 534115N 0010227W and 533142N 0010734W. Intersection with L975.
(RNAV 5)	284°/-	10.1 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	BATLI	533845N 0012137W							Intersection with Y250.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks
								↓	↑	
(RNAV 5)		284°/-	27.1 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	POLE HILL VOR/DME (POL)	534437.56N 0020611.98W								Intersection with N601.
(RNAV 5)		247°/-	17.1 nm		FL 245 / FL 85		10 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	CROFT	533737N 0023220W								Intersection with P16.
(RNAV 5)		249°/-	8.4 nm		FL 245 / FL 85		8 nm	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. AWY is 8 nm wide, 3 nm north of CL and 5 nm south of CL. Scottish Control (Prestwick) Freq: 118.780 (FL 195 and above); Freq: 136.575 (Below FL 195).
△	KOLID	533426N 0024521W								Intersection with L70. Extremity of Y70.
Route Remarks:										
- The portion of airspace formed by joining positions: L975 Crossing Area 533835N 0013503W - 534007N 0011937W - 534626.98N 0011937.00W - 534308.41N 0011615.09W - 534127.82N 0010357.97W - 533059N 0010932W - 532845N 0013215W - 533835N 0013503W, from AWY base level to an upper limit of FL 120, occasionally to FL 190 on request; is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) b/n the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish Control (Prestwick). - The area of Y70 bounded by the co-ordinates: 533142N 0010734W - 533119N 0010614W - 533109N 0010751W - 533142N 0010734W, has a lower limit of FL 85. - The area of Y70 bounded by the co-ordinates: 534402N 0012252W - 534134N 0010443W - 534007N 0011937W - 534402N 0012252W, has a lower limit of FL 125.										

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
		↓	↑							
Y76 (RNP/RNAV)										
△	DETLING VOR/DME (DET)	511814.41N 0003550.19E								Westbound (southbound) route only. Extremity of Y76.
(RNAV 5)		-/235°	15.1 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	TANET	512658N 0005532E								
(RNAV 5)		-/235°	9.7 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	KOPUL	513232N 0010814E								
(RNAV 5)		-/261°	18.0 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	ERING	513526N 0013643E								
(RNAV 5)		-/251°	11.9 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	ODROB	513915N 0015445E								
(RNAV 5)		-/251°	9.8 nm		FL 245 / FL 95		10 nm		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London Control (Swanwick) Freq: 118.480 (FL 215 and above); Freq: 135.425 (Below FL 215).
△	RIMBU	514222N 0020943E								FIR Boundary. For continuation see AIP Netherlands.

Route Remarks:

- Due to presence of EG D138, pilots should ensure that they do not fly north of track from ERING to abm SND NDB (15 DME DET).
- See also ENR 1.1, paragraph 1.1.3.

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y91 (RNP/RNAV)										
Δ	BIGNO	500000N 0024930W								Southbound route only. Channel Islands CTA Arrivals only. Extremity of Y91 is aligned with the Channel Islands CTR.
(RNAV 5)		-154°	29.4 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) (All Levels) Freq: 126.075.
Δ	NOTRO	502612N 0031021W								
(RNAV 5)		-128°	13.9 nm		FL 245 / FL 105		12 nm		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London Control (Swanwick) (All Levels) Freq: 126.075.
Δ	DAWLY	503427N 0032750W								Extremity of Y91.
Route Remarks:										
- CDR Category One (CDR 1). Available: 1600 Fri - 0745 Mon (Winter); 1500 Fri - 0645 Mon (Summer). Not available on PHS. - Western edge of AWY is 7 nm west of the CL.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y110 (RNP/RNAV)										
△	ORIST	500000N 0015042W							Eastbound (northbound) route only. Not flight plannable for traffic with RFL below FL 205 between ORIST and VEXEN. FIR Boundary. Extremity of Y110.	
(RNAV 5)		006°/-	8.4 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 127.825 (Above FL 225); Freq: 129.425 (Below FL 225).
△	VEXEN	500822N 0014934W							Intersection with L980.	
(RNAV 5)		006°/-	9.2 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London Control (Swanwick) Freq: 127.825 (Above FL 225); Freq: 129.425 (Below FL 225).
△	ASPEN	501734N 0014820W							Extremity of Y110. Intersection with Q41.	
<u>Route Remarks:</u>										
- Due to Brest ACC operational requirements, cruising levels are inappropriate to the MAG TR btn ORIST and ASPEN. - See also ENR 1.1, paragraph 1.1.3.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
								↓	↑		
Y124 (RNP/RNAV)											
△	MOGTA	531008N 0023810W							Eastbound route only. Available for Jet traffic only. Intersection with Y53.		
(RNAV 5)		-/096°	20.1 nm		FL 245 / FL 195		10 nm		odd FL 230 / FL 210	Class C. Scottish Control (Prestwick) Freq: 118.780 (All Levels).	
△	AMPIT	531139N 0031133W							Intersection with L15.		
(RNAV 5)		-/096°	15.9 nm		FL 245 / FL 195		12 nm		odd FL 230 / FL 210	Class C. Scottish Control (Prestwick) Freq: 133.050 (All Levels).	
△	DOLOP	531251N 0033751W									
(RNAV 5)		-/096°	12.9 nm		FL 245 / FL 195		12 nm		odd FL 230 / FL 210	Class C. Scottish Control (Prestwick) Freq: 133.050 (All Levels).	
△	BAGIT	531345N 0035918W									
(RNAV 5)		-/096°	13.2 nm		FL 245 / FL 195		12 nm		odd FL 230 / FL 210	Class C. Scottish Control (Prestwick) Freq: 133.050 (All Levels).	
△	PETUK	531436N 0042114W									
(RNAV 5)		-/096°	13.9 nm		FL 245 / FL 195		12 nm		odd FL 230 / FL 210	Class C. Scottish Control (Prestwick) Freq: 133.050 (All Levels).	
△	LUTIP	531522N 0044416W									
(RNAV 5)		-/096°	15.9 nm		FL 245 / FL 145		12 nm		odd FL 230 / FL 150	Class C. Scottish Control (Prestwick) Freq: 133.050 (All Levels).	
△	LOMVO	531616N 0051046W									
(RNAV 5)		-/095°	11.6 nm		FL 245 / FL 115		12 nm		odd FL 230 / FL 130	Class C. Dublin ACC (All Levels) Freq: 129.175. The area of ATS delegation to Dublin is defined as follows: Western extremity - FIR boundary. Eastern extremity - 5 nm east of LUTIP.	
△	DEXEN	531649N 0053000W							FIR Boundary. Extremity of Y124.		
Route Remarks:											
• CDR Category One, Two and Three (CDR 1, 2 and 3) (ENR 1.1, paragraph 1.1.7 refers). CDR 1 Mon-Thu 1800-0800 Winter (Summer 1 hr earlier) and from 1700 (Winter and Summer) on Friday or the day preceding a PH to 0800 (Winter), 0700 (Summer) on Monday or the day following a PH. CDR 2 Mon-Thu 0800-1800, Fri 0800-1700 (Winter); Mon-Fri 0700-1700 (Summer). The route may be closed tactically with 2 hrs notice in which case routings will be via LIFFY L975. • That portion of Y124 west of LUTIP below FL 195 is permanently established for tactical use by Dublin ATC. • Between DEXEN and AMPIT AWY is 12 nm wide with 7 nm north of the CL and 5 nm south of the CL. • See also ENR 1.1, paragraph 1.1.3.											

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
Y250 (RNP/RNAV)										
△	DAVENTRY VOR/DME (DTY)	521048.51N 0010649.64W							Northbound route only btm DTY and MAMUL. Extremity of Y250.	
(RNAV 5)		004°/-	18.4 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Due to ATC operational re- quirements, the cruising level allocation between DTY and LESTA is inappropriate to the MAG Track. London Control (Swanwick) Freq: 131.130 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	AKUPA	522912N 0010528W							Intersection with T420.	
(RNAV 5)		004°/-	15.3 nm		FL 245 / FL 105		10 nm	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Due to ATC operational re- quirements, the cruising level allocation between DTY and LESTA is inappropriate to the MAG Track. London Control (Swanwick) Freq: 131.130 (Above FL 195); Freq: 130.925 (FL 195 and below).
△	LESTA	524427N 0010419W							Intersection with N601.	
(RNAV 5)		351°/-	41.4 nm		FL 245 / FL 195		10 nm	even FL 240 / FL 200		Class C. London Control (Swanwick) Freq: 131.130 (Above FL 195).
△	MAMUL	532505N 0011648W							Intersection with L60 and L603.	
(RNAV 5)		357°/ 177°	10.2 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	UPTON	533513N 0011803W								
(RNAV 5)		330°/ 150°	4.1 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	BATLI	533845N 0012137W								
(RNAV 5)		330°/ 150°	5.0 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
△	RIMTO	534303N 0012559W								
(RNAV 5)		330°/ 150°	32.3 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
Δ	OBOXA	541036N 0015420W								
(RNAV 5)		330°/ 150°	3.4 nm		FL 245 / FL 125		10 nm	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish Control (Prestwick) Freq: 133.800 (All Levels).
Δ	GASKO	541329N 0015721W								Extremity of Y250. Intersection with P18.
Route Remarks:										
- Lower limit reduced to FL 85 above the lateral limits of Leeds Bradford CTA. - The portion of airspace formed by joining positions: (i) Camphill Box 532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - 531418.31N 0012448.84W - 531137N 0013631W - 532719N 0014617W, from AWY base level to an upper limit of FL 100, occasionally to FL 190 on request; (ii) L975 Crossing Area 533835N 0013503W - 534007N 0011937W - 534626.98N 0011937.00W - 534308.41N 0011615.09W - 534127.82N 0010357.97W - 533059N 0010932W - 532845N 0013215W - 533835N 0013503W, from AWY base level to an upper limit of FL 120, occasionally to FL 190 on request; is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish Control (Prestwick). - An area of controlled airspace, Class C above FL 195 and Class A below FL 195, base FL 85, bounded by straight lines joining: 535710N 0015020W - 534612N 0013902W - 534803N 0015310W - 535710N 0015020W, is part of Y250.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
		↓							↑		
Y311 (RNP/RNAV)											
△	DOVER VOR/DME (DVR)	510945.44N 0012132.72E							Eastbound route only. Extremity of Y311. Intersection with L9, L10 and M140.		
(RNAV 5)		-/090°	33.0 nm		FL 245 / FL 85		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London Control (Swanwick) Freq: 134.900 (All Levels).	
△	ODVIK	510957N 0002909E								Extremity of Y311.	
Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
		↓							↑		
Y312 (RNP/RNAV)											
△	DOVER VOR/DME (DVR)	510945.44N 0012132.72E							Eastbound route only. Extremity of Y312. Intersection with L9, L10 and M140.		
(RNAV 5)		-/097°	33.0 nm		FL 245 / FL 75		10 nm		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London Control (Swanwick) Freq: 134.900 (All Levels).	
△	ADMAG	511402N 0002934E								Extremity of Y312.	

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y904 (RNP/RNAV)										
△	ABERDEEN VOR/DME (ADN)	571837.62N 0021601.95W								Extremity of Y904.
(RNAV 5)		341°/ 161°	17.0 nm		FL 195 / 4500 ft ALT		10 nm	even FL 180 / FL 60	odd FL 190 / FL 50	Class E and TMZ. (See Note) Within the confines of the Aberdeen CTR/CTA, Y904 as- sumes the airspace classifi- cation of the Aberdeen CTR/ CTA. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	NANEV	573429N 0022714W								
(RNAV 5)		341°/ 161°	13.0 nm		FL 155 / FL 75		10 nm	even FL 140 / FL 80	odd FL 150 / FL 90	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	SMOKI	574637N 0023556W								
(RNAV 5)		341°/ 161°	44.0 nm		FL 155 / FL 75		10 nm	even FL 140 / FL 80	odd FL 150 / FL 90	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	WICK VOR/DME (WIK)	582731.74N 0030601.33W								Extremity of Y904.
Route Remarks:										
- The areas of controlled airspace, Class E and TMZ, base level Alt 4500 ft and an upper limit of FL 195, bounded by: 573240.63N 0023553.96W - 572452.78N 0023019.93W thence anti-clockwise by the arc of a circle radius 10 nm centred on 571834N 0021602W to 572100.00N 0023356.00W - 573240.63N 0023553.96W and 573613.16N 0021832.25W - 573705.88N 0015736.32W - 573549.60N 0015753.00W - 572815.24N 0021136.39W thence anti-clockwise by the arc of a circle radius 10 nm centred on 571834N 0021602W to 572824.68N 0021301.47W - 573613.16N 0021832.25W, are part of Y904 (See Note). Note: Transponder carriage and operation required.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
Y905 (RNP/RNAV)										
△	ABERDEEN VOR/DME (ADN)	571837.62N 0021601.95W							Extremity of Y905.	
(RNAV 5)		046°/ 226°	20.9 nm		FL 195 / 4500 ft ALT		10 nm	odd FL 190 / FL 50	even FL 180 / FL 60	Class E and TMZ. (See Note) Within the confines of the Aberdeen CTR/CTA, Y905 as- sumes the airspace classifi- cation of the Aberdeen CTR/ CTA. Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	PETOX	573333N 0014902W							The section btn PETOX and SUM passes close to EG D809.	
(RNAV 5)		009°/ 189°	3 nm		FL 195 / 4500 ft ALT		10 nm	odd FL 190 / FL 50	even FL 180 / FL 60	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	RISDU	573631N 0014824W								
(RNAV 5)		009°/ 189°	77.4 nm		FL 195 / FL 105		10 nm	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	BEKET	585313N 0013120W								
(RNAV 5)		009°/ 189°	27.1 nm		FL 195 / FL 105		10 nm	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	ERDOG	592003N 0012504W								
(RNAV 5)		009°/ 189°	3.0 nm		FL 195 / FL 75		10 nm	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	GAVEL	592300N 0012422W								
(RNAV 5)		009°/ 189°	7.0 nm		FL 195 / FL 75		10 nm	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).
△	RAVDI	592957N 0012242W								
(RNAV 5)		009°/ 189°	3.0 nm		FL 195 / FL 45		10 nm	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 134.850 (All Levels).

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ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes									
Significant Point Name		Significant Point Coordinates									
(RNP/RNAV Type)		Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks	
								IFR cruising levels max/min			
△	MOCHA	593256N 0012159W							↓	↑	Acft in communication with Sumburgh ATC must report OHD MOCHA unless otherwise authorized by that Unit.
(RNAV 5)		009°/ 189°	20.0 nm		FL 195 / FL 45		10 nm	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Within the confines of the Sumburgh CTR/CTA, Y905 assumes the airspace classification of the Sumburgh CTR/CTA. Scottish Control (Prestwick) Freq: 134.850 (All Levels).	
△	SUMBURGH VOR/DME (SUM)	595243.52N 0011711.52W									Extremity of Y905.
<u>Route Remarks:</u> - Although coverage of SUM VOR meets ICAO criteria, it is nevertheless deficient along the alignment of Y905 at low level in view of the distance btn SUM and PETOX. During commissioning flight inspection ICAO mnm field strength at FL 70 occurred to 90 nm and it is estimated it would occur above approximately FL 100 overhead PETOX. Therefore in line VOR navigation beyond SUM VOR 50D to PETOX may not comply with RNP 5. - The area of controlled airspace, Class E and TMZ, base level Alt 4500 ft and upper limit of FL 195, bounded by straight lines joining: 573556.19N 0013910.07W - 573332.59N 0013539.66W - 573234.17N 0013954.16W - 573556.19N 0013910.07W, is part of Y905 (See Note). Note: Transponder carriage and operation required.											

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)	Track MAG ↓↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series IFR cruising levels max/min		Controlling Unit/ Airspace Class/ Remarks	
							↓	↑		
Y906 (RNP/RNAV)										
△	RIMOL	573233N 0040230W							Extremity of Y906.	
(RNAV 5)		304°/ 124°	17.1 nm		FL 195 / FL 95		10 nm	even FL 180 / FL 100	odd FL 190 / FL 110	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	GARVA	574118N 0042941W								
(RNAV 5)		304°/ 124°	25.1 nm		FL 195 / FL 95		10 nm	even FL 180 / FL 100	odd FL 190 / FL 110	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	ULLAP	575400N 0051009W								
(RNAV 5)		304°/ 123°	37.2 nm		FL 195 / FL 55	Minimum limit: 5200 ft ALT	10 nm	even FL 180 / FL 60	odd FL 190 / FL 70	Class E and TMZ. (See Note) Scottish Control (Prestwick) Freq: 127.275 (All Levels).
△	STORNOWAY VOR/DME (STN)	581225.01N 0061058.97W								Extremity of Y906.
Route Remarks:										
- Inverness Radar provide a radar service for tfc inbound to and outbound from Inverness via Y906 during the promulgated hours of Inverness Radar as published in UK AIP AD 2.EGPE AD 2.18 (and as amended by NOTAM). Outside the hours of Inverness Radar an approach procedural service is provided by Inverness Approach. - Tfc inbound to Inverness via Y906 has a clearance limit of GARVA, descent clearance will be issued by Scottish Control to be level by GARVA unless otherwise instructed by ATC. Scottish Control will instruct tfc when to contact Inverness Approach or Inverness Radar (122.600 MHz), this will normally be at or before 40 nm from RIMOL. Note: Transponder carriage and operation required.										

ENR 3.1 LOWER ATS ROUTES (continued)

Route Designator/ (RNP/RNAV Type)		Route Usage Notes								
Significant Point Name		Significant Point Coordinates								
(RNP/RNAV Type)		Track MAG ↓/↑	Dist	COP	Upper limit/ lower limit	Minimum flight alti- tude	Lateral limits	FL series		Controlling Unit/ Airspace Class/ Remarks
								IFR cruising levels max/min		
								↓	↑	
Y911 (RNP/RNAV)										
△	BOYNE	534602N 0053000W								FIR Boundary. Extremity of Y911.
(RNAV 5)		058°/ 238°	31.7 nm		FL 195 / FL 75		10 nm	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. (See Note) Within the confines of airways L10 and L15 and Strangford CTA in the vicinity of the Isle of Man, Y911 assumes the airspace classification of air- ways L10 and L15 and the Strangford CTA. Scottish Control (Prestwick) Freq: 123.775 (All Levels).
△	ISLE OF MAN VOR/DME (IOM)	540400.72N 0044548.51W								Extremity of Y911.
Route Remarks:										
- See also ENR 1.1, paragraph 1.1.3. Note: Transponder carriage and operation required.										