

ENR 3.2 Area navigation routes

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits Lower limits Airspace classifica- tion	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
				Odd	Even		
1	2	3	4	5		6	7
L125 (RNAV 5)		109.3 NM					
▲OGEVI (FIR boundary) 410805N 0434713E	TBS 232° 61.4 NM 1700 FT	For continuation, see AIP Armenia.					
		$\frac{347^\circ}{167^\circ}$ 57.6 NM	$\frac{\text{FL 660}}{\text{FL 195}}$ Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△ALI NDB (BT) 420523N 0433901E							
		$\frac{-}{156^\circ}$ 30.3 NM	$\frac{\text{FL 660}}{\text{FL 195}}$ Class C	↑		+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△BASKA 423459N 0432655E	KTS 053° 49.3 NM 200 FT						
		$\frac{-}{153^\circ}$ 21.4 NM	$\frac{\text{FL 660}}{\text{FL 195}}$ Class C	↑		+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
▲GUSLI (FIR boundary) 425506N 0431702E	KTS 031° 56.9 NM 200 FT	For continuation, see AIP Russia.					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
			Lower limits	Odd	Even		
1	2	3	4	5		6	7
L850 (RNAV 5)		318.4 NM					
▲ADEKI (FIR boundary) 411748N 0464500E	TBS 098° 84.3 NM 1700 FT	For continuation, see AIP Azerbaijan.					
		<u>284°</u> 103° 72.2 NM	<u>FL 660</u> FL 195 Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△DEDON 414255N 0451448E	TBS 072° 13.7 NM 1700 FT						
		<u>283°</u> 101° 103.1 NM	<u>FL 660</u> FL 195 Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△TAGAR 421642N 0430410E	KTS 070° 26.8 NM 200 FT						
		<u>281°</u> 099° 143.1 NM	<u>FL 660</u> FL 285 Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
▲BANUT (FIR boundary) 425923N 0395907E	KTS 288° 121.1 NM 200 FT	For continuation, see AIP Russia.					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits Lower limits Airspace classifica- tion	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
				Odd	Even		
1	2	3	4	5		6	7
M10 (RNAV 5)		63.9 NM					
△ TETRO 414021N 0425135E	KTS 144° 34.5 NM 200 FT						
		<u>257°</u> - 63.9 NM	<u>FL 660</u> FL 195 Class C		↓	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
▲ SARPI (FIR boundary) 413256N 0412659E	KTS 224° 59.7 NM 200 FT	For continuation, see AIP Turkiye.					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
			Lower limits	Odd	Even		
1	2	3	4	5		6	7
M54 (RNAV 5)		117.0 NM					
▲TAVRO (FIR boundary) 411129N 0443009E	TBS 208° 35.0 NM1700 FT	For continuation, see AIP Armenia.					
		- 145° 25.9 NM	FL 660 FL 195 Class C	↑		+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△LAGAS 413419N 0441353E	TBS 253° 32.7 NM 1700 FT						
		- 145° 91.1 NM	FL 660 FL 195 Class C	↑		+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
▲GUSLI (FIR boundary) 425506N 0431702E	KTS 031° 56.9 NM 200 FT	For continuation, see AIP Russia.					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits Lower limits Airspace classifica- tion	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
				Odd	Even		
1	2	3	4	5		6	7
M747 (RNAV 5)		231.3 NM					
▲BARAD (FIR boundary) 412131N 0450500E	TBS 155° 19.7 NM 1700 FT	For continuation, see AIP Azerbaijan.					
		- 101° 40.5 NM	FL 660 FL 195 Class C	↑		+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△LAGAS 413419N 0441353E	TBS 253° 32.7 NM 1700 FT						
		- 100° 65.5 NM	FL 660 FL 195 Class C	↑		+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△BARUS 415414N 0425030E	KTS 128° 22.8 NM 200 FT						
		- 100° 52.4 NM	FL 660 FL 195 Class C	↑		+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
△IBERI 420939N 0414318E	KTS 262° 34.1 NM 200 FT						
		- 098° 72.9 NM	FL 660 FL 195 Class C	↑		+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
▲IDLER (FIR boundary) 422925N 0400845E	KTS 274° 105.8 NM 200 FT	For continuation, see AIP Russia.					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
			Lower limits	Odd	Even		
1	2	3	4	5		6	7
N11 (RNAV 5)		253.0 NM					
▲ROLIN (FIR boundary) 414757N 0403923E	KTS 248° 84.9 NM 200 FT						
		<div>079° 260°</div> <div>98.4 NM</div>	<div>FL 660 FL 195</div> <div>Class C</div>	↓	↑	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
△BARUS 415414N 0425030E	KTS 128° 22.8 NM 200 FT						
		<div>082° 263°</div> <div>77.4 NM</div>	<div>FL 660 FL 195</div> <div>Class C</div>	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△MUKHRANI NDB (DF) 415500N 0443356E							
		<div>081° 262°</div> <div>77.2 NM</div>	<div>FL 660 FL 195</div> <div>Class C</div>	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
▲KUFAN (FIR boundary) 415718N 0461708E	TBS 067° 62.4 NM 1700 FT						

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits Lower limits Airspace classifica- tion	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
				Odd	Even		
1	2	3	4	5		6	7
N37 (RNAV 5)		200.5 NM					
▲SARPI (FIR boundary) 413256N 0412659E	KTS 224° 59.7 NM 200 FT	For continuation, see AIP Turkiye.					
		<u>060°</u> 240° 8.0 NM	<u>FL 660</u> FL 195 Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
△BATUMI NDB (LU) 413605N 0413651E							
		<u>064°</u> 245° 22.8 NM	<u>FL 660</u> FL 195 Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
△ODILI 414317N 0420540E	KTS 206° 32.4 NM 200 FT						
		<u>065°</u> 245° 35.3 NM	<u>FL 660</u> FL 195 Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
△BARUS 415414N 0425030E	KTS 128° 22.8 NM 200 FT						
		<u>066°</u> 246° 38.0 NM	<u>FL 660</u> FL 195 Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△ALI NDB (BT) 420523N 0433901E							
		<u>070°</u> 252° 96.4 NM	<u>FL 660</u> FL 225 Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
▲LURIS 422525N 0454607E	TBS 032° 58.2 NM 1700 FT	For continuation, see AIP Russia.					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits Lower limits Airspace classifica- tion	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
				Odd	Even		
1	2	3	4	5		6	7
N61 (RNAV 5)		152.3 NM					
▲NOLGA (FIR boundary) 412541N 0425844E	KTS 147° 50.0 NM 200 FT	For continuation, see AIP Turkiye.					
		$\frac{074^\circ}{255^\circ}$ 57.1 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△LAGAS 413419N 0441353E	TBS 253° 32.7 NM 1700 FT						
		$\frac{075^\circ}{255^\circ}$ 11.3 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△BAGEM 413556N 0442850E	TBS 252° 21.4 NM 1700 FT						
		$\frac{071^\circ}{252^\circ}$ 21.4 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△TBILISI DVOR/DME (TBS) 414014N 0445649E							
		$\frac{072^\circ}{252^\circ}$ 13.7 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△DEDON 414255N 0451448E	TBS 072° 13.7 NM 1700 FT						
		$\frac{066^\circ}{246^\circ}$ 48.8 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↓	↑	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
			Lower limits	Odd	Even		
			Airspace classifica- tion				
1	2	3	4	5		6	7
▲KUFAN (FIR boundary) 415718N 0461708E	TBS 067° 62.4 NM 1700 FT	For Continuation see AIP Russia					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
			Lower limits	Odd	Even		
1	2	3	4	5		6	7
N82 (RNAV 5)		87.5 NM					
▲TISOT (FIR boundary) 411605N 0445309E	TBS 180° 24.3 NM 1700 FT	For continuation, see AIP Armenia.					
		<u>333°</u> - 41.5 NM	<u>FL 660</u> FL 195 Class C		↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△MUKHRANI NDB (DF) 415500N 0443356E							
		<u>331°</u> - 37.7 NM	<u>FL 660</u> FL 195 Class C		↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△TAVSA 423000N 0441456E	TBS 321° 58.7 NM 1700 FT						
		<u>334°</u> - 8.3 NM	<u>FL 660</u> FL 195 Class C		↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
▲LAPTO (FIR boundary) 423753N 0441119E	TBS 323° 66.8 NM 1700 FT	For continuation, see AIP Russia.					

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits Lower limits Airspace classifica- tion	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
				Odd	Even		
1	2	3	4	5		6	7
N644 (RNAV 5)		276.2 NM					
▲ADEKI (FIR boundary) 411748N 0464500E	TBS 098° 84.3 NM 1700 FT	For continuation, see AIP Azerbaijan.					
		$\frac{274^\circ}{093^\circ}$ 63.6 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△BADIR 412900N 0452200E	TBS 114° 22.0 NM 1700 FT						
		$\frac{269^\circ}{089^\circ}$ 51.5 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△LAGAS 413419N 0441353E	TBS 253° 32.7 NM 1700 FT						
		$\frac{269^\circ}{089^\circ}$ 33.2 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△AGISO 413740N 0432945E	KTS 119° 56.0 NM 200 FT						
		$\frac{269^\circ}{088^\circ}$ 28.7 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 125.125 MHz (Primary) 135.125 MHz (Secondary) 133.500 MHz (Primary) 135.350 MHz (Secondary)
△TETRO 414021N 0425135E	KTS 144° 34.5 NM 200 FT						
		$\frac{268^\circ}{088^\circ}$ 34.5 NM	$\frac{FL\ 660}{FL\ 195}$ Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)

Route designator (RNP/RNAV) Name of significant points Coordinates NAV/RCP/RSP specification	Waypoint IDENT of VOR/DME BRG & DIST ELEV DME Antenna	Magnetic bearing Geodesic DIST	Upper limits Lower limits Airspace classifica- tion	Direction of cruising levels		Navigation accuracy requirement	Remarks Controlling unit, Channel Logon address SATVOICE number NAV/RCP/RSP specification limitations
				Odd	Even		
1	2	3	4	5		6	7
△ODILI 414317N 0420540E	KTS 206° 32.4 NM 200 FT						
		<u>268°</u> 087° 64.7 NM	<u>FL 660</u> FL 195 Class C	↑	↓	+/-5 NM	TBILISI ACC FREQ: 133.400 MHz (Primary) 135.625 MHz (Secondary) 134.450 MHz (Primary) 135.750 MHz (Secondary)
▲ROLIN (FIR boundary) 414757N 0403923E	KTS 248° 84.9 NM 200 FT	For continuation, see AIP Turkiye.					