ENR 3. ATS ROUTES

ENR 3.1 CONVENTIONAL NAVIGATION INTERNATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
A 305							For continuation, see AIP ARGENTINA
▲ DORVO (FIR BDRY) 344258S 0573102W	☛107° ☛39.8	FL 245 900 M ALT A FL 245 C FL 195 G FL 085 900 M ALT	10	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ TOKAM 344653S 0564256W	☛107° ☛34.2	FL 245 900 M ALT				☛+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛104° ☛46.1	A FL 245 C FL 195 900 M ALT				☛+/- 5 NM	
▲ CURBELO VOR/DME (LDS) 345129.9S 0550530.2W	☛050°/230° ☛30.0			↓		☛+/- 5 NM	
▲ LITOS 342732S 0544334W	049°/230° ☛59.5	FL 245 FL 090				☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
∆ BOLAT 333949S 0540039W	050°/231° ☛73.3	A FL 245 C FL 195 FL 090		↑		☛+/- 5 NM	
▲ UGELO (FIR BDRY) 324042S 0530850W							For continuation, see AIP BRAZIL

ENR 3.1 CONVENTIONAL NAVIGATION INTERNATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
A 306							
▲ CURBELO VOR/DME (LDS) 345129.9S 0550530.2W	265° ☛40.2	FL 245 900 M ALT	10		↓	☛+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
∆ LUCIO 350318S 0555218W	286° ☛12.4	A FL 245 C FL 195 900 M ALT				☛+/- 5 NM	
∆ DAGUS 350217S 0560725W	286° ☛37.6					☛+/- 5 NM	
▲ UGIMI (FIR BDRY) 345858S 0565302W							For continuation, see AIP ARGENTINA

ENR 3.1 CONVENTIONAL NAVIGATION INTERNATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
A 309							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	058° 41.5	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10	↓		+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ SOLIS 342057S 0552529W	058° 28.4	FL 245 ☛FL 090				+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ TIDRU 340057S 0550102W	058° 61.4	A FL 245 C FL 195 FL 090 ☛				+/- 5 NM	
∆ OGMAR 331735S 0540856W	059° 59.3					+/- 5 NM	
UGURA (FIR BDRY) 323525S 0531922W							For continuation, see AIP BRAZIL

ENR 3.1 CONVENTIONAL NAVIGATION INTERNATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
A 310							For continuation, see AIP BRAZIL
▲ ASUMA (FIR BDRY) 315203S 0540919W	202°/021° 28.6	FL 245 ☛FL 090	10		↓	+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
MIMOL 322033S 0541319W	225°/044° 80.9	A FL 245 C FL 195 FL 090				+/- 5 NM	
∆ AROMO 333002S 0550244W	224°/044° 59.0	☛				+/- 5 NM	
▲ TELAK 342034S 0553938W	224°/043° 34.4	FL 245 900 M ALT				+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	213°/033° 13.2	A FL 245 C FL 195 900 M ALT				+/- 5 NM	
∆ DAGUS 350217S 0560725W	213°/033° 16.9				↑	+/- 5 NM	
▲ DARKA (FIR BDRY) 351758S 0561502W							For continuation, see AIP ARGENTINA

ENR 3.1 CONVENTIONAL NAVIGATION INTERNATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels Odd*	*Even*	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
A 314							For continuation, see AIP BRAZIL
▲ ISALA (BDRY FIR) 314034S 0542647W ☛	240°/059° ☛144.7	FL 245 FL 090 A FL 245 C FL 195 FL 090	10		↓	+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ DURAZNO VOR/DME (DUR) 332122.5S 0562945.8W ☛	242°/061° ☛54.0					+/- 5 NM	
∆ PONPA 335625S 0571859W	241°/061° 44.4				↑	+/- 5 NM	
▲ PAPIX (BDRY FIR) 342458S 0580002W							For continuation, see AIP ARGENTINA

ENR 3.1 CONVENTIONAL NAVIGATION INTERNATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
B 555							For continuation, see AIP ARGENTINA
▲ GUALEGUAYCHU VOR/DME (GUA) 330035S 0583651W	142°/322° 85.7	FL 245 ☛FL 090	10	↓		+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
∆ PONPA 335625S 0571859W	142°/321° 53.4	A FL 245 C FL 195 FL 090 ☛				+/- 5 NM	
▲ NIMBO 343049S 0562932W	141°/321° 30.0	FL 245 900 M ALT				+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W		A FL 245 C FL 195 900 M ALT			↑		

ENR 3.1 CONVENTIONAL NAVIGATION INTERNATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
G 680							For continuation, see AIP BRAZIL
▲ TULIO (FIR BDRY) 313223S 0543001W	☛261°/080° ☛130.9	FL 245 FL 090	10		↓	☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
∆ OPSOS 322418S 0565125W	☛260°/079° ☛96.0	**A** FL 245 **C** FL 195 FL 090		↑		☛+/- 5 NM	
▲ GUALEGUAYCHU VOR/DME (GUA) 330035S 0583651W							For continuation, see AIP ARGENTINA

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels*		*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
				Odd	*Even*		
1	2	3	4	5		6	7
W 3							
▲ MIMOL 322033S 0541319W	☛336°/157° ☛104.2	FL 245 FL 090 **A** FL 245 **C** FL 195 FL 090	10		↓	☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ RIVERA ARP (SURV) 305810S 0552824W				↑			

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 15							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	013°/194° 30.0	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10	↓		+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ REGOV 341956S 0560029W ☛	☛014°/195° ☛154.7	FL 245 ☛FL 090 A FL 245 C FL 195 FL 090 ☛				+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ TEMAL 314501S 0555526W	040°/221° 52.2	FL 245 FL 090 A FL 245 C FL 195 FL 090				+/- 5 NM	
▲ RIVERA ARP (SURV) 305810S 0552824W					↑		

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 16							
▲ TEMAL 314501S 0555526W	☛354°/174° ☛40.2	FL 245 FL 090	10		↓	☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ EKEKI 310706S 0561124W	☛353°/173° ☛46.1	**A** FL 245 **C** FL 195 FL 090		↑		☛+/- 5 NM	
▲ ARTIGAS ARP (SUAG) 302357S 0563039W							

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 18							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	043°/224° 34.4	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10	↓		+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ TELAK 342034S 0553938W	044°/224° 59.1	FL 245 ☛FL 090 A FL 245 C FL 195 FL 090 ☛				+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ AROMO 333002S 0550244W	044°/225° 80.9	FL 245 FL 090 A FL 245 C FL 195 FL 090			↑	+/- 5 NM	
▲ MIMOL 322033S 0541319W							

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 19							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	357°/177° 30.0	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10		↓	+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ MONSA 342056S 0561053W	357°/177° 31.5	FL 245 ☛FL 090				+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ ASIVA 335026S 0562035W	357°/178° 30.0	A FL 245 C FL 195 FL 090 ☛				+/- 5 NM	☛
▲ DURAZNO VOR/DME (DUR) 332122.5S 0562945.8W	354°/175° 30.0					+/- 5 NM	
▲ BISOK 325246S 0564041W	355°/175° 98.5					+/- 5 NM	
▲ MEVIV 311839S 0571546W	355°/176° 18.5					+/- 5 NM	
▲ ARAPE 310100S 0572213W	356°/176° 47.0				↑	+/- 5 NM	
▲ GEMSU 301600S 0573818W							

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 20							
▲ SEKMI 312605S 0575903W	☛064°/244° ☛40.3	FL 245 FL090	10	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ ARAPE 310100S 0572213W	☛063°/244° ☛57.8	**A** FL 245 **C** FL 195 FL 090			↑	☛+/- 5 NM	
▲ ARTIGAS ARP (SUAG) 302357S 0563039W							

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 23							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	345°/166° 30.0	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10		↓	+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ GUVIN 342302S 0561737W ☛	346°/166° ☛94.5	FL 245 ☛FL 090 A FL 245 C FL 195 FL 090 ☛				+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ REBIN 325758S 0570718W	346°/167° 50.8	FL 245 FL090 A FL 245 C FL 195 FL 090				+/- 5 NM	
▲ SANDU 321204S 0573323W	347°/167° 50.8				↑	+/- 5 NM	
▲ SEKMI 312605S 0575903W							

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 25							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	336°/157° 30.0	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10		↓	+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ DRACA 342524S 0562227W	337°/157° 55.8	FL 245 ☛FL 090 A FL 245 C FL 195 FL 090 ☛				+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ ☛
▲ TESAD 333931S 0570052W	336°/158° 93.8	FL 245 FL090				+/- 5 NM	
▲ PAYSANDÚ ARP (SUPU) 322151S 0580344W	016°/196° 55.8	A FL 245 C FL 195 FL 090			↑	+/- 5 NM	
▲ SEKMI 312605S 0575903W	091°/271° 37.8			↓		+/- 5 NM	
▲ MEVIV 311839S 0571546W	091°/272° 56.4					+/- 5 NM	
▲ EKEKI 310706S 0561124W	090°/271° 38.0				↑	+/- 5 NM	
▲ RIVERA ARP (SURV) 305810S 0552824W							

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels*		*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
				Odd	*Even*		
1	2	3	4	5		6	7
W 27							
▲ DURAZNO VOR/DME (DUR) 332122.5S 0562945.8W ☛	319°/139° ☛39.2	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10		↓	+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ REBIN 325758S 0570718W	319°/139° 59.7	FL 245 FL090 A FL 245 C FL 195 FL 090			↑	+/- 5 NM	
▲ PAYSANDÚ ARP (SUPU) 322151S 0580344W							

ENR 3.1 CONVENTIONAL NAVIGATION NATIONAL ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels Odd*	*Even*	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
W 29							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛296°/116° ☛31.8	FL 245 900 M ALT A FL 245 C FL 195 900 M ALT	10	↓		☛+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ KOSPI 344202S 0563856W	☛296°/116° ☛27.5	FL 245 900 M ALT A FL 245 C FL 195 G FL 085 900 M ALT				☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ NEMAS 343503S 0571111W	296°/116° ☛29.9	FL 245 900 M ALT A FL 245 C FL 195 F FL 085 G FL 035 900 M ALT		↑		☛+/- 5 NM	
▲ COLONIA ARP (SUCA) 342705S 0574601W							

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ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
P 526 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛FIR BDRY (GEMSU) 301600S 0573818W	☛NIL	☛176°/355° ☛134.2	FL 245 / FL 090	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
∆ OPSOS 322418S 0565125W	☛DUR ☛174° 59.8 ☛295 FT	☛175°/355° ☛29.8	A FL 245 / C FL 195 / FL 090			☛+/- 5 NM	
▲ BISOK 325246S 0564041W	☛DUR ☛174° 30.0 ☛295 FT	☛175°/354° ☛30.0	FL 245 / 900 M ALT			☛+/- 5 NM	DURAZNO APP Channel: 120.4 MHZ
▲ DURAZNO VOR/DME (DUR) 332122.5S 0562945.8W	☛NIL	☛178°/357° ☛30.0	A FL 245 / C FL 195 / 900 M ALT			☛+/- 5 NM	
▲ ASIVA 335026S 0562035W	☛DUR ☛357° 30.0 ☛295 FT	☛177°/357° ☛31.5	FL 245 / 900 M ALT A FL 245 C FL 195 G FL 085 / 900 M ALT			☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ MONSA 342056S 0561053W	☛CRR ☛177° 30.0 ☛98 FT	☛177°/357° ☛30.0	FL 245 / 900 M ALT A FL 245 C FL 195 / 900 M ALT	↑		☛+/- 5 NM	CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	NIL						

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UL 324 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛FIR BDRY (KUKEN) 341058S 0581302W	☛DUR ☛072° 99.3 ☛295 FT	☛032°/213° ☛42.4	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ TOGAL 333131S 0575406W	☛DUR ☛093° 71.3 ☛295 FT	☛033°/214° ☛103.9				☛+/- 5 NM	GNSS or IRU required
▲ ENSAS 315440S 0570849W	☛DUR ☛171° 92.6 ☛295 FT	☛035°/215° ☛8.0				☛+/- 5 NM	
⍓ DAYMA 314714S 0570514W	☛DUR ☛174° 98.6 ☛295 FT	☛034°/215° ☛58.2				☛+/- 5 NM	
▲ MIGOT 305248S 0564042W	☛NIL	☛035°/215° ☛11.0				☛+/- 5 NM	
▲ ANLUN 304230S 0563605W	☛NIL	☛034°/214° ☛20.5			↑	☛+/- 5 NM	
▲ ☛FIR BDRY (CUARA) 302313S 0562750W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UL 405 ***(RNAV 5)***							
▲ CURBELO VOR/DME (LDS) 345129.9S 0550530.2W	☛NIL	☛265° ☛40.2	UNL FL 245 Class **A**		↓	☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
∆ LUCIO 350318S 0555218W	☛CRR ☛342° 28.4 ☛98 FT	☛286° ☛12.5				☛+/- 5 NM	
▲ DAGUS 350217S 0560725W	☛CRR ☛034° 13.2 ☛98 FT	☛286° ☛37.6				☛+/- 5 NM	
▲ ☛FIR BDRY (UGIMI) 345858S 0565302W							For continuation, see AIP ARGENTINA

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UL 417 ***(RNAV 5)***							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛NIL	☛321°/141° ☛30.0	UNL FL 245 Class **A**		↓	☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ NIMBO 343049S 0562932W	☛DUR ☛012° 69.3 ☛295 FT	☛321°/141° ☛23.7				☛+/- 5 NM	
▲ PABOT 341536S 0565134W	☛DUR ☛030° 57.1 ☛295 FT	☛321°/142° ☛34.2				☛+/- 5 NM	
▲ GUVON 335332S 0572303W	☛DUR ☛066° 54.9 ☛295 FT	☛322°/142° ☛23.5				☛+/- 5 NM	
▲ TILDA 333820S 0574432W	☛DUR ☛087° 64.8 ☛295 FT	☛322°/142° ☛10.5				☛+/- 5 NM	
▲ TOGAL 333131S 0575406W	☛DUR ☛093° 71.3 ☛295 FT	☛322°/142° ☛47.3		↑		☛+/- 5 NM	
▲ GUALEGUAYCHU VOR/DME (GUA) 330035S 0583651W							For continuation, see AIP ARGENTINA

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 402 ***(RNAV 5)***							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛NIL	☛004°/184° ☛30.0	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ VUKAS 342013S 0560637W	☛CRR ☛184° 30.0 ☛98 FT	☛004°/184° ☛32.8				☛+/- 5 NM	GNSS or IRU required
▲ ANRUP 334741S 0561209W	☛DUR ☛343° 30.2 ☛295 FT	☛004°/185° ☛49.2				☛+/- 5 NM	
▲ VUDUP 325854S 0562018W	☛DUR ☛212° 23.8 ☛295 FT	☛005°/185° ☛50.5				☛+/- 5 NM	
▲ ILMUL 320844S 0562832W	☛DUR ☛193° 72.5 ☛295 FT	☛005°/185° ☛24.9				☛+/- 5 NM	
▲ ILSIM 314400S 0563232W	☛DUR ☛191° 97.2 ☛295 FT	☛005°/186° ☛51.6				☛+/- 5 NM	
▲ MIGOT 305248S 0564042W	☛NIL	☛006°/186° ☛9.7				☛+/- 5 NM	
▲ MUKIB 304311S 0564213W	☛NIL	☛006°/186° ☛36.9		↑		☛+/- 5 NM	
▲ ☛FIR BDRY (SEKLO) 300629S 0564758W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 418 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛FIR BDRY (RODOV) 305004S 0574817W	☛NIL	☛096°/276° ☛18.6	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ GNSS or IRU required
▲ SASKU 304754S 0572651W	☛NIL	☛096°/276° ☛38.7				☛+/- 5 NM	
▲ MUKIB 304311S 0564213W	☛NIL	☛096°/276° ☛5.3				☛+/- 5 NM	
▲ ANLUN 304230S 0563605W	☛NIL	☛097°/277° ☛22.9			↑	☛+/- 5 NM	
▲ ☛FIR BDRY (UBLAM) 303935S 0560944W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 424 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛FIR BDRY (DORVO) 344258S 0573102W	☛CRR ☛107° 71.1 ☛98 FT	☛107° ☛39.8	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
∆ TOKAM 344653S 0564256W	☛CRR ☛107° 34.2 ☛98 FT	☛107° ☛34.2				☛+/- 5 NM	
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛NIL	☛104° ☛46.1				☛+/- 5 NM	
▲ CURBELO VOR/DME (LDS) 345129.9S 0550530.2W	☛NIL	☛051°/231° ☛30.0		↓		☛+/- 5 NM	
▲ RAVEL 342802S 0544249W	☛LDS ☛231° 30.0 ☛98 FT	☛051°/233° ☛132.3			↑	☛+/- 5 NM	
▲ ☛FIR BDRY (TOLEP) 324341S 0530510W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 534 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛FIR BDRY (SUGRA) 321234S 0581124W	☛NIL	☛083°/264° ☛56.1	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ GNSS or IRU required
▲ ENSAS 315440S 0570849W	☛DUR ☛171° 92.6 ☛295 FT	☛084°/264° ☛5.2				☛+/- 5 NM	
▲ LOLIL 315259S 0570303W	☛DUR ☛174° 92.6 ☛295 FT	☛084°/264° ☛27.5				☛+/- 5 NM	
▲ ILSIM 314400S 0563232W	☛DUR ☛191° 97.2 ☛295 FT	☛084°/264° ☛29.3				☛+/- 5 NM	
▲ PORLI 313419S 0560010W	☛NIL	☛084°/265° ☛47.9		↑		☛+/- 5 NM	
▲ ☛FIR BDRY (URURI) 311810S 0550726W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 540 ***(RNAV 5)***							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛NIL	☛053° ☛38.9	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ MOLBI 342050S 0553018W	☛CRR ☛234° 38.9 ☛98 FT	☛054° ☛149.1				☛+/- 5 NM	GNSS or IRU required
▲ ☛FIR BDRY (AKPOD) 322757S 0533341W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 654 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛FIR BDRY (KUKEN) 341058S 0581302W	☛DUR ☛072° 99.3 ☛295 FT	☛047° ☛40.3	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ TILDA 333820S 0574432W	☛DUR ☛087° 64.8 ☛295 FT	☛047° ☛81.0				☛+/- 5 NM	GNSS or IRU required
▲ PUMIL 323227S 0564820W	☛DUR ☛174° 51.3 ☛295 FT	☛048° ☛29.0				☛+/- 5 NM	
▲ ILMUL 320844S 0562832W	☛DUR ☛193° 72.5 ☛295 FT	☛048° ☛42.0				☛+/- 5 NM	
▲ PORLI 313419 0560010W	☛NIL	☛049° ☛45.8				☛+/- 5 NM	
▲ ☛FIR BDRY (GAMOT) 305640S 0552937W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 661 ***(RNAV 5)***							
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛NIL	☛062°/242° ☛44.8	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ TOSIB 342106S 0551955W	☛LDS ☛171° 32.6 ☛98 FT	☛062°/244° ☛148.8			↑	☛+/- 5 NM	GNSS or IRU required
▲ ☛FIR BDRY (TOLEP) 324341S 0530510W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UM 792 ***(RNAV 5)***							For continuation, see AIP BRAZIL
▲ ☛FIR BDRY (NIGRO) 315744S 0535501W	☛NIL	☛229° ☛27.6	UNL FL 245		↓	☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
MIMOL 322033S 0541319W	☛NIL	☛225° ☛80.9	Class **A**			☛+/- 5 NM	GNSS or IRU required
∆ AROMO 333002S 0550244W	☛DUR ☛289° 73.3 ☛295 FT	☛224° ☛59.1				☛+/- 5 NM	
▲ TELAK 342034S 0553938W	☛CRR ☛224° 34.5 ☛98 FT	☛224° ☛34.5				☛+/- 5 NM	
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛NIL	☛213°/033° ☛13.2			↓	☛+/- 5 NM	
∆ DAGUS 350217S 0560725W	☛CRR ☛034° 13.2 ☛98 FT	☛213°/033° ☛16.9		↑		☛+/- 5 NM	
▲ ☛FIR BDRY (DARKA) 351758S 0561502W							For continuation, see AIP ARGENTINA

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UN 741 ***(RNAV 5)***							For continuation, see AIP BRAZIL
▲ ☛FIR BDRY (UMRUD) 312632S 0543841W	☛NIL	☛237° ☛126.2	UNL FL 245 Class **A**		↓	☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ VUDUP 325854S 0562018W	☛DUR ☛212° 23.8 ☛295 FT	☛236° ☛16.4				☛+/- 5 NM	GNSS or IRU required
▲ ENTED 331047S 0563348W	☛DUR ☛174° 11.0 ☛295 FT	☛236° ☛59.3				☛+/- 5 NM	
▲ GUVON 335332S 0572303W	☛DUR ☛066° 54.9 ☛295 FT	☛236° ☛43.9				☛+/- 5 NM	
▲ ☛FIR BDRY (PAPIX) 342458S 0580002W							For continuation, see AIP ARGENTINA

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UN 857 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛BDRY FIR (DORVO) 344258S 0573102W	☛DUR ☛044° 96.1 ☛295 FT	☛061° ☛42.6	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ PABOT 341536S 0565134W	☛DUR ☛044° 57.1 ☛295 FT	☛061° ☛34.7				☛+/- 5 NM	GNSS or IRU required
▲ LOMID 335308S 0561945W	☛DUR ☛030° 11.0 ☛295 FT	☛061° ☛8.3				☛+/- 5 NM	
▲ ANRUP 334741S 0561209W	☛DUR ☛343° 30.1 ☛295 FT	☛062° ☛132.4				☛+/- 5 NM	
MIMOL 322033S 0541319W	☛NIL	☛064°/244° ☛25.6		↓	↑	☛+/- 5 NM	
▲ ☛BDRY FIR (OGRUN) 320343S 0535034W							For continuation, see AIP BRAZIL

ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
UP 526 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛BDRY FIR (GEMSU) 301600S 0573818W	☛NIL	☛176°/356° ☛33.3	UNL FL 245	↓		☛+/- 10 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ SASKU 304754S 0572651W	☛NIL	☛176°/355° ☛62.0	Class **A**			☛+/- 10 NM	
DAYMA 314714S 0570514W	☛DUR ☛174° 98.6 ☛295 FT	☛175°/355° ☛6.0				☛+/- 10 NM	
▲ LOLIL 315259S 0570303W	☛DUR ☛174° 92.6 ☛295 FT	☛175°/355° ☛41.3				☛+/- 10 NM	
▲ PUMIL 323227S 0564820W	☛DUR ☛174° 51.3 ☛295 FT	☛175°/355° ☛40.2				☛+/- 10 NM	
▲ ENTED 331047S 0563348W	☛DUR ☛174° 11.1 ☛295 FT	☛175°/355° ☛11.1				☛+/- 10 NM	
▲ DURAZNO VOR/DME (DUR) 332122.5S 0562945.8W	☛NIL	☛178°/357° ☛32.8				☛+/- 10 NM	
▲ LOMID 335308S 0561945W	☛DUR ☛357° 32.8 ☛295 FT	☛177°/357° ☛28.7				☛+/- 10 NM	
▲ MONSA 342056S 0561053W	☛CRR ☛177° 30.0 ☛98 FT	☛177°/357° ☛30.0		↑		☛+/- 10 NM	
▲ CARRASCO VOR/DME (CRR) 344957.8S 0560130.5W	☛NIL						

☛ENR 3.2 AREA NAVIGATION ROUTES (RNAV)

1. Atlantic Ocean random routing RNAV area (AORRA)

1.1 DESCRIPTION OF AORRA AIRSPACE

1.1.1 The airspace between FL 290 and FL 410 inclusive shall be designated as **AORRA** within the Atlántico, Comodoro Rivadavia, Ezeiza, Johannesburg Oceanic, Luanda Oceanic and Montevideo FIRs, limited by:

Line joining the following coordinates:	
60º 00' 00" S	015º 00' 00" E
27º 30' 00" S	015º 00' 00" E
17º 30' 00" S	011º 13' 00" E
09º 40' 00" S	011º 24' 00" E
Then an arc segment of 120 NM centered over Luanda VOR to the position:	
07º 48' 00" S	011º 30' 00" E
Then straight lines to each of the following co-ordinates:	
05º 20' 00" S	010º 00' 00" E
05º 30' 00" S	008º 50' 00" E
04º 10' 00" S	006º 35' 00" E
05º 52' 00" S	006º 35' 00" E
12º 00' 00" S	010º 00' 00" W
19º 43' 00" S	034º 55' 00" W
26º 45' 00" S	043º 45' 00" W
34º 00' 00" S	050º 00' 00" W
34º 00' 00" S	051º 33' 20" W
36º 45' 30" S	053º 11' 47" W
58º 21' 06" S	053º 00' 00" W
60º 00' 00" S	053º 00' 00" W
Then to:	
60º 00' 00" S	015º 00' 00" E
☛ (See ENR 3.2-19 AORRA – GEOGRAPHICAL REFERENCE MAP).	

1.1.2 Those flights operating within AORRA in Montevideo FIR shall enter and exit via the gate:
BIVEN 36º 35' 00" S 053º 05' 10" W

1.1.3 Aircraft may track via a flight plan preferred track between these gates. Prior to entering or after exiting the AORRA at a particular gate, aircraft are to comply with the ATS routes associated with that particular entry or exit point or as instructed by ATC, and are required to flight plan accordingly.

1.2 AUTOMATIC DEPENDENT SURVELLIANCE AND CONTROLLED PILOT DATA LINK COMMUNICATION (ADS/CPDLC)

1.2.1 ADS/CPDLC will be utilized in AORRA airspace by suitably equipped service providers to provide an ATS service to aircraft able to take advantage of this form of communication. Operators are to note that in some sectors of the random routing airspace, ADS/CPDLC is the primary form of communication, in accordance with the provisions of Advisory Circular CA/UY/ANS/ATM/013.

1.2.2 ☛The logon address is SUEO.

1.3 REQUIRED NAVIGATION PERFORMANCE (RNP 10) PROCEDURES FOR AICRAFT OPERATIONS WITHIN AORRA

1.3.1 Only those aircraft certified for RNP 10 operations shall operate within the AORRA.

1.3.2 No aircraft shall flight plan to operate in the AORRA airspace unless it is RNP 10 certified to operate in this airspace by the State of Registry or the State of operator, as the case may be, except in the following circumstances:

a) The aircraft is being initially delivered to the State of Registry or the State of the operator.

b) The aircraft is certified but experience navigation degradation and is being flown back to base or to a maintenance facility for repairs.

c) The aircraft is engaged on a humanitarian or mercy flight.

d) State aircraft.

1.4 APPROVAL OF AIRWORTHINESS/OPERATIONS

1.4.1 RNP 10 Approval – The operators operating or intending to operate in AORRA shall obtain RNP 10 approval from the State's registry or States operator as appropriate and which user complies with the following conditions:

a) The aircraft satisfies specifications of "Minimum aircraft system performance specifications" (MASPS) of the State's registry.

b) The aircraft is operated under the conditions indicated in the RNP 10 operational approval issued by the user's State.

1.5 FLIGHT PLANS

1.5.1 When it is intended to operate an aircraft in AORRA airspace, RNP 10 compliance shall be indicated by placing an "R" in box 10 of the flight plan form.

1.5.2 Flight plans shall contain entry and exit point to AORRA and time estimated for every 5º of longitude.

1.5.3 In the case of repetitive flight plans RNP 10 compliance shall be indicated by placing an “R” in box Q of the RPL, regardless of the required level, as follows: EQPT/R.

1.5.4 Those operators operating under circumstances stipulated in paragraph 1.3.2 shall insert STS/NON RNP 10 in field 18 of the ICAO FPL form.

1.6 OPERATIONAL PROCEDURES BEFORE ENTERING TO AORRA AIRSPACE

1.6.1 Before entering the AORRA airspace the pilot-in- command of an aircraft RNP 10 certified, shall verify that the required equipment to fly within AORRA is operating normally and also verify with the greatest possible accuracy the position of the aircraft through external air navigation aids.

1.6.2 If any equipment is not operating normally, the pilot should notify ATC before entering the AHORRA airspace.

1.6.3 Whilst operating within the defined area of the AORRA, flight levels will comply with the table of cruising levels as reflected in ICAO Annex 2 “Air Rules”, Appendix 3 (b). No RVSM operations are envisaged within the AORRA until further notice.

1.6.4 RVSM transition procedures should be taken into consideration from/to RVSM airspace in the FIR where RVSM transition areas are defined.

1.7 OPERATIONAL PROCEDURES AFTER ENTERING THE AORRA AIRSPACE

1.7.1 General procedures

1.7.1.1 If an aircraft cannot continue the flight in compliance with the ATC and/or cannot maintain the precision required for the specified navigation performance in the airspace, ATC is to be advised immediately.

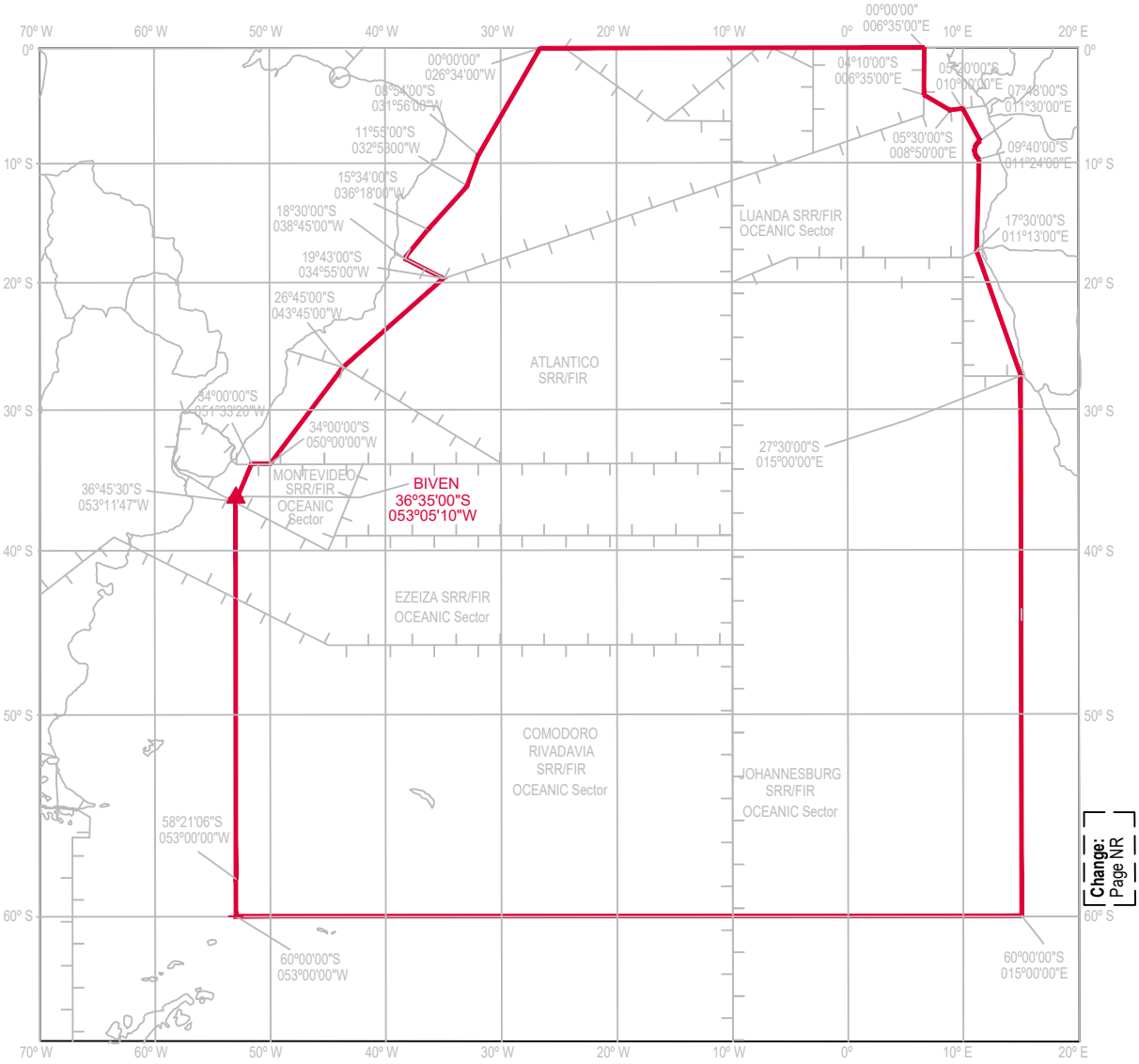
1.7.2 Position report shall be required for ATC at entry/exit gate:

05º E
10º E
00º E/W
05º W
10º W
15º W
20º W
25º W
30º W
35º W
40º W
45º W
50º W

As well as any other position required by ATC.

AORRA - GEOGRAPHIC REFERENCE MAP

LIMITS OF THE TOTAL AREA AND MONTEVIDEO FIR ENTRY AND EXIT POINT



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ENR 3.3 OTHER ROUTES

3.3.1 **VFR Corridors**

3.3.1.1 All VFR traffic entering to Montevideo FIR with destination to the following International Airports, Angel S. Adami (SUAA), Carrasco (SUMU) y C/C Carlos A. Curbelo – Laguna del Sauce (SULS) or exit Montevideo FIR with destination to Ezeiza FIR international airports, traffic shall be directed through VFR1 corridor. Flights coming from International airports of Ezeiza FIR must submit FPL and shall be directed through VFR1 corridor. Aircrafts whose FPL have not been approved by Montevideo ACC, shall not be authorized to enter.

3.3.1.2 Traffic entering VFR1 corridor (Uruguay) shall hold a minimum altitude of 2500 FT (750 M) and a maximum of FL 055, which maintain until Nueva Helvecia. After that, they may use a maximum level of FL 075.

3.3.1.3 Traffic maintaining VFR1 corridor, shall continue flying within Airspace Class "G" and monitoring on frequency, as far as possible with Montevideo Control (FREQ 128.5 and 126.3 MHZ) and to enter Carrasco Terminal Area they shall contact Carrasco APP (FREQ 119.2 and 120.2 MHZ) 5 minutes before entering to get instructions and traffic information. Traffic maintaining VFR1 corridor (Uruguay) could be directed out of this visual corridor, whenever ATC and traffic allows ensuring a better management.

3.3.1.4 Traffic with destination Ángel S. Adami Intl. Airport (SUAA) or Carrasco Intl. Airport (SUMU), shall proceed to them from San José position and according to ATC instructions. Exit traffic shall be directed to San José according to ATC instructions.

3.3.1.5 Aircraft must wait for ATC clearance at VFR1 exit points.

3.3.1.6 Maximum speed in VFR corridors: 220 KT.

3.3.1.7 All aircraft shall maintain bidirectional communication as far as possible, according to the airspace class, with the appropriate control and transponder (A and C modes) operating shall flight according to flight levels or altitudes based on the table of cruising levels, see AIP Uruguay ENR 1.7-5 page.

3.3.1.8 Traffic on corridor:

- ☛**VFR 2** – maximum altitude 2000 FT. Within CTR Capitán CURBELO, Airspace Class C; outside CTR Capitán CURBELO Airspace Class G. Frequencies: CTR Capitán CURBELO 118.3 MHZ, TMA Carrasco 119.2 and 120.2 MHZ.
- ☛**VFR 3** -segment MINAS – PAN DE AZUCAR - CURBELO VOR/DME (LDS) altitude FL 035, maximum speed 180 KT; segment CURBELO VOR/DME (LDS) – PAN DE AZUCAR - MINAS altitude 600 M (2000 FT). Within CTR Capitán CURBELO, Airspace Class C; outside CTR Capitán CURBELO Airspace Class G. Frequencies: CTR Capitán CURBELO 118.3 MHZ, TMA Carrasco 119.2 and 120.2 MHZ.
- **VFR4** - maximum altitude 2000 FT. Airspace Class G. TMA Carrasco frequencies 119.2 and 120.2 MHZ.

All aircrafts must communicate on frequency 118.3 MHZ entering CTR Capitán CURBELO.

☛3.3.1.9 Traffic could be directed out of the visual corridors and continue ascending, whenever ATC and traffic allows ensuring a better management.

☛3.3.1.10 SURBO corridor shall be used only for entry or exit national territory flights and with origin or destination Colonia Intl Airport (SUCA).

☛3.3.1.11 Traffic proceeding from Ezeiza FIR to Carmelo Aerodrome (SUCM) could be cleared to flight direct to destination. Traffic proceeding from Carmelo (SUCM) to Ezeiza FIR shall use Nº 1 Corridor (Argentina).

☛3.3.1.12 All traffics VFR proceeding from Montevideo FIR, with exception Colonia (SUCA) which final destination will be Aeroparque "Jorge Newbery", San Fernando or other, will be directed through Martín García island (VFR1Corridor) and must be released with 2000 FT altitude.

NOTE: Regulations in force shall be applied according to airspace used while flying.

☛3.3.2 ADDITIONAL INFORMATION

☛3.3.2.1 Prohibited, restricted and danger areas see ENR 5.1 from AIP URUGUAY.

☛3.3.2.2 VFR flights coming from SABE, SADF, SAEZ or from other Ezeiza FIR airport to destination SUMU, SUAA ☛or SULS or from other Montevideo FIR airport (see GEN 1.6 and ENR 3.3-3 to 3.3-6 from AIP URUGUAY)

ENR 3.3 VFR ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels*		*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
				Odd	*Even*		
1	2	3	4	5		6	7
VFR 1							
▲ ISLA MARTÍN GARCÍA 341056S 0581450W	☛108°/288° ☛51.1	FL 055 750 M Class **G**		↓			MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ Maximum speed: 220 KT
∆ NUEVA HELVECIA 341710S 0571342W	☛108°/288° ☛25.9	FL 075 750 M Class **G**					
▲ SAN JOSÉ 342015S 0564237W	☛097°/278° ☛37.6						CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ From SAN JOSÉ could proceed direct to SUMU or SUAA
∆ SAN RAMÓN 341723S 0555718W	☛111°/291° ☛36.1				↑		
▲ MINAS 342248S 0551411W							

ENR 3.3 VFR ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
VFR 2							
▲ CURBELO VOR/DME (LDS) 345129.9S 0550530.2W	☛313°/133° ☛9.6	ALT 2000 FT Class **C**			↓		CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ Within Capitán CURBELO CTR 118.3 MHZ
▲ ☛PAN DE AZUCAR ☛ 344633S 0551529W	☛269°/089° ☛6.4						
▲ SOLIS GRANDE 344800S 0552300W	☛359°/179° ☛16.1	Class **G**					
▲ ☛FRIGORIFICO ☛ 343218S 0552720W	☛313°/133° ☛28.9		☛		↑		
∆ SAN RAMÓN 341723S 0555718W							

ENR 3.3 VFR ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
VFR 3							
▲ MINAS 342248S 0551411W	☛195°/015° ☛23.7	FL 035 600 M		↓			CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ
▲ ☛PAN DE AZUCAR ☛ 344633S 0551529W	☛133°/313° ☛9.6	Class **C** (Within Capitán CURBELO CTR) Class **G** (Outside Capitán CURBELO CTR)			↑		Maximum speed: 180 KT Within Capitán CURBELO CTR 118.3 MHZ
▲ CURBELO VOR/DME (LDS) 345129.9S 0550530.2W							

ENR 3.3 VFR ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Track MAG ↓ / ↑ VOR RDL DIST (NM) (COP)*	*Upper limits Lower limits or Minimum altitude Airspace classification*	*Lateral limits NM*	*Direction of cruising levels*		*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
				Odd	*Even*		
1	2	3	4	5		6	7
VFR 4							
▲ MINAS 342248S 0551411W	☛142°/322° ☛23.3	ALT 2000 FT Class **G**		↓			CARRASCO APP Channel: 119.2 MHZ 120.2 MHZ Within Capitán CURBELO CTR 118.3 MHZ
▲ PUENTE 343735S 0545222W	☛162°/342° ☛13.0						
▲ LAGUNA 344845S 0544416W	☛249°/069° ☛10.8				↑		
▲ PUNTA DEL ESTE ARP (SUPE) 345447S 0545509W							

☛3.3.3 REMOTELY OPERATED AERIAL DEVICES (DAOD) CORRIDORS

☛3.3.3.1 The following corridors are defined for DAOD flight in day and night VMC and IMC conditions on the following routes and with the maximum altitudes:

Route	Description	Direction	Upper Limit	Remarks
1	2	3	4	5
Tacuarembó - Ansina	2 NM corridor with axis in the high-tension line that connects Tacuarembó and Melo, later, axis in Route NR 5.	Both	Maximum Altitude: 700 FT AGL	Nil
Tacuarembó - Tambores	2 NM corridor with axis on the railway between both towns.	Both	Maximum Altitude: 700 FT AGL	Nil
Tacuarembó - Curtina	2 NM corridor with axis on Route NR 5.	Both	Maximum Altitude: 600 FT AGL	Nil
Tacuarembó - Paso del Cerro - Rivera	2 NM corridor with axis on the railway between Tacuarembó and Rivera.	Both	Maximum Altitude: 500 FT AGL.	Nil

☛3.3.4 USER PREFERRED ROUTES (UPR)

☛3.3.4.1 Introduction

User Preferred Routes (UPRs) are routes requested by airlines that optimize the route between city pairs. Upon publication, airlines may use these segments for any city pair until they are cancelled or modified.

☛3.3.4.2 UPR requests within the Montevideo FIR will be directed to the Air Traffic Technical Department:
email: dtta@dinacia.gub.uy
cell phone: (+598) 98501778

☛3.3.4.3 These requests shall undergo a trial period and shall be available for a defined period of time to the requesting airline. The trial period is intended to determine the operational viability of the UPR for all interested parties. Once this viability is verified, the requests shall be published in the AIP.

☛3.3.4.4 Aircraft shall operate UPR from one of the following waypoints (WPT):

a) Published ATS route; or
b) Last waypoint of a standard departure route (SID);
c) Boundary of an area where Strategic Direct Routing (EDE) is applied.

☛3.3.4.5 ATM Requirements

ATS surveillance systems and VHF communications in both directions are required for the application of the UPR.

The UPR shall not be applied in the event of a partial or total ATS contingency.

☛3.3.4.6 To present and fly UPR, the following minimum aircraft capabilities are required:

Communication Requirements	*PBN Requirements*	*PBN in field 18*
Voice communication - VHF, CPDLC as required, to maintain contact throughout the route to be flown.	RNAV 5	B1/B2

☛3.3.4.7 UPR Waypoints shall be included in the flight plan. Route designator must not be included.

ENR 3.3 UPR ROUTES

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
☛UPR 01 ***(RNAV 5)***							For continuation, see AIP ARGENTINA
▲ ☛BDRY FIR (GEMSU) 301600S 0573818W	☛NIL	☛176°/356° ☛33.3	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ ☛SASKU 304754S 0572651W	☛NIL	☛204°/022° ☛206.4			↑	☛+/- 5 NM	GNSS or IRU required
▲ ☛BDRY FIR (KUKEN) 341058S 0581302W							For continuation, see AIP ARGENTINA

Route designator (RNP/RNAV) Name of significant points Coordinates RCP/RSP specification	*Way-point IDENT of VOR/DME BRG & DIST ELEV DME Antenna*	*Track MAG ↓ / ↑ Geodesic DIST (NM)*	*Upper limit Lower limit Airspace classification*	*Direction of cruising levels* Odd	Even	*Navigation accuracy requirement*	*Remarks Controlling unit channel Logon address SATVOICE number RCP/RSP specification limitations*
1	2	3	4	5		6	7
☛UPR 02 ***(RNAV 5)***							For continuation, see AIP BRAZIL
▲ ☛BDRY FIR (SEKLO) 300629S 0564758W	☛NIL	☛210°/027° ☛254.4	UNL FL 245 Class **A**	↓		☛+/- 5 NM	MONTEVIDEO ACC Channel: 128.5 MHZ 126.3 MHZ
▲ ☛BDRY FIR (KUKEN) 341058S 0581302W					↑		GNSS or IRU required For continuation, see AIP ARGENTINA

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ENR 3.4 EN-ROUTE HOLDING

NIL.

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