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*This document constitutes divisional Special Operations Order as defined by Chapter 10 of IVAO Special Operations Regulations; compliance with this divisional SO Order is mandatory when operating within the concerned division. Refer to SO Regulations available at <http://sod.ivao.aero/regulations>.*

## Divisional Special Operations Order for

### Ecuador Division

## Item 1. Operational restrictions and mandatory procedures for Special Operations flights

### 1. Supersonic Operations

- a) All flights over Mach 0.95 are considered supersonic flights.
- b) It is forbidden to reach Mach 1.00 over Ecuador mainland or near Galapagos Islands, all civil supersonic flights will develop it over the Pacific Ocean, and above FL 245.
- c) Military aircraft on a special operation mission corroborated and approved by the Joint Command of the Armed Forces of Ecuador (EC-SOC) could reach Mach 1.00 at FL245 or Above, and near unpopulated areas for Ecuador Mainland.
- d) The maximum speed for training proposes on special areas is Mach 0.98.

### 2. Low-Level Rules

- a) For fixed-wing aircraft is mandatory to fly 1 000 Ft above terrain and 500 Ft above the sea.
- b) For rotorcraft is mandatory to fly 500 Ft above the terrain.
- c) Search and Rescue (SAR) aircraft on a special operation mission are excluded for 2.a and 2.b rules.
- d) The maximum speed below FL100 is 300 Knots.

### 3. Miscellaneous

- a) Military and SO aircraft must contact civilian ATC, except when they enter to a special area.
- b) Civilian ATC should segregate military aircraft according to their mission.
- c) It is forbidden foreign military aircrafts supersonic flights over Ecuador mainland, Galapagos Islands and Ecuador Territory Sea, although it be a multinational military exercise. They must follow all these regulations.
- d) All military aircraft must fill their flight plan under *Military Rules "M"*.
- e) Any member who wants to control at a Military ATC position must request approval by EC-SOC.
- f) To enter a special zone, the aircraft must receive an ATC clearance, if there is not an ATC position connected any non-SO aircraft must not enter a special area.
- g) Civilian ATC could control special zones (Except SEP-1 and SER-2 "*Taura*") according to the traffic situation, experience, furthermore, as required by traffic.
- h) To enter a special zone, the traffic should report to ATC:
  - Current callsign.
  - Tactical callsign (if applicable).
  - Aircraft type.
  - Souls on board.
  - Fuel remaining.



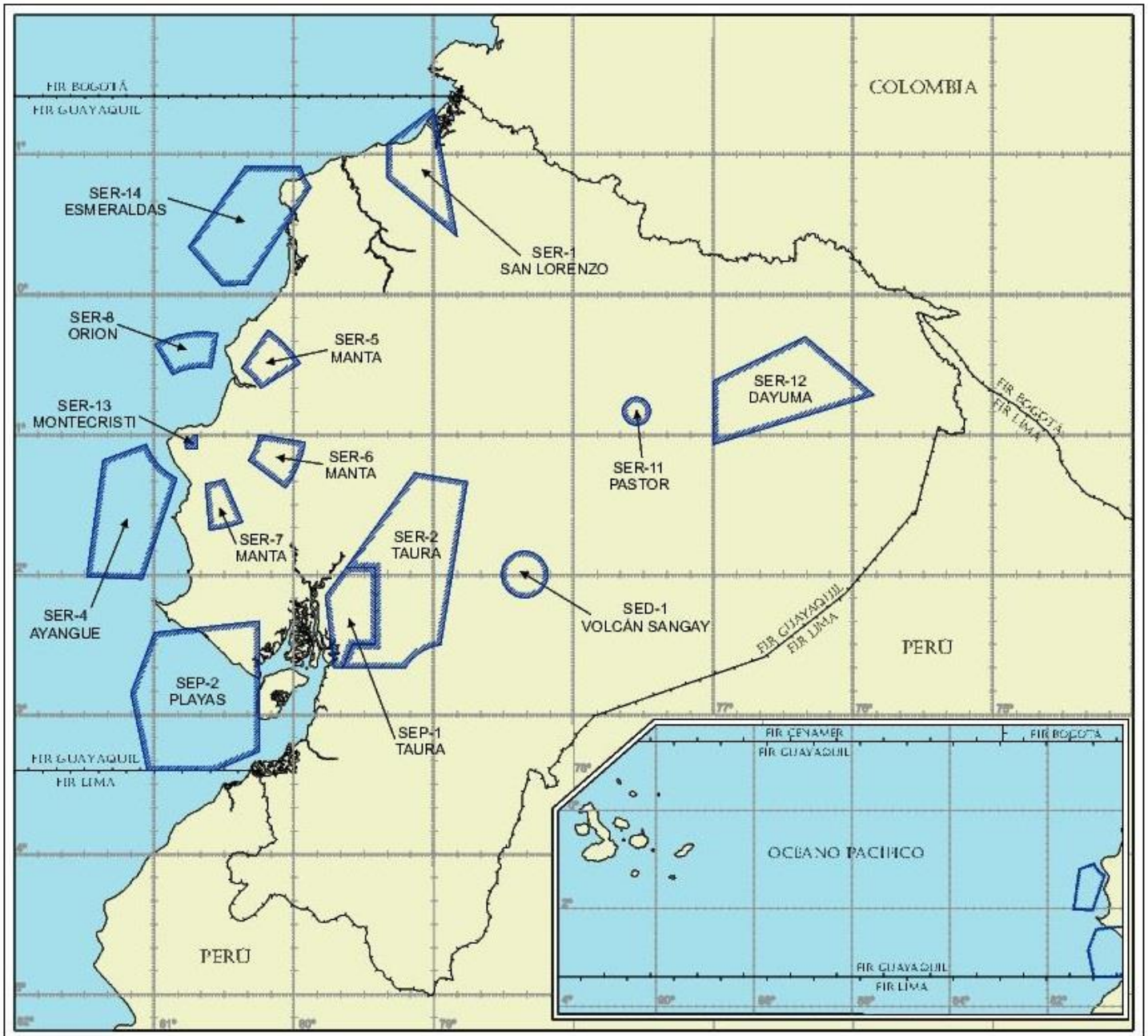
- Intentions inside area.
- Maximum and minimum altitude on area expected.
- Estimated time inside the area.

## Item 2. Special Areas for use by SO flights

Area Type, Activity, and Identification	Conditions of Use	Lateral Limits	Vertical Limits	Activation Details
Prohibited Area <i>SEP-1</i> <b>TAURA</b> Military Air Activity	Reserved and designated for exclusive use by SO flights only. Civilian VFR aircraft could entry with Military ATC Clearance	023000S0793500W – 024000S0793900W – 024000S0794300W – 020910S0794654W – 015700S0793758W – 015700S0792500W – 023000S0792500W	<u>UNL</u> SFC	PERMANENTLY ACTIVE
Prohibited Area <i>SEP-2</i> <b>PLAYAS</b> Firing Range	Reserved and designated for exclusive use by SO flights only. Civil VFR aircraft can fly outside this schedule below 2 000 Ft from Posorja to Anconcito, previous clearance get by Air Command Zone II (EC-SOC)	022000S0801500W - 031600S0801500W – 032400S0803400W – 032400S0810300W – 025100S0811000W – 022500S0810000W	<u>UNL</u> SFC	MON - FRI 1100 – 2100z
Restricted Area <i>SER-1</i> <b>SAN LORENZO</b> Military Installations	Reserved and designated for exclusive use by SO flights only.	00500N0792000W – 010500N0792000W – 012000N0790000W – 002500N0785000W	<u>FL200</u> SFC	PERMANENTLY ACTIVE
Restricted Area <i>SER-2</i> <b>TAURA</b> Aircraft Training Zone Firing Range	Reserved and designated for exclusive use by SO flights only.	012011S0784537W – 023011S0785702W   DME ARC 20NM VOR/DME CUV COORD 025004S0785501 – 024000S0791211W – 024000S0793900W – 023000S0793500W – 023000S0792500W – 015700S0792500W – 015700S0793758W – 011642S07908024W	<u>UNL</u> SFC	PERMANENTLY ACTIVE
Restricted Area <i>SER-4</i> <b>AYANGUE</b> Naval Operations	Reserved and designated for exclusive use by SO flights only.	010404S0810324W   DME ARC 25NM VOR/DME MNV COORD 005604S0803943W – 011844S0805016W   DME ARC 25NM VOR/DME MNV – 020200S0810500W – 020100S0812900W – 011100S0812200W	<u>UNL</u> MSL	PERMANENTLY ACTIVE
Restricted Area <i>SER-5</i> <b>MANTA</b> Aircraft Training Zone	Reserved and designated for exclusive use by SO flights only.	003131S0802228W   DME ARC 30 NM VOR/DME MNV COORD 005604S0803943W – 004010S0801417W   DME ARC 30 NM VOR/DME MNV – 002926S0795724W   DME ARC 50 NM VOR   DME MNV – 001504S0801106W   DME ARC 50 NM VOR   DME MNV	<u>20 000ft</u> 8 000ft	PERMANENTLY ACTIVE
Restricted Area <i>SER-6</i> <b>MANTA</b> Aircraft Training Zone	Reserved and designated for exclusive use by SO flights only.	010013S0801504W   DME ARC 25 NM VOR/DME MNV COORD 005604S0803943W – 011059S0800339W   DME ARC 25 NM VOR/DME MNV – 012258S0800339W	<u>20 000ft</u> 8 000ft	PERMANENTLY ACTIVE



		DME ARC 45 NM VOR/DME MNV – 010314S0795517W  DME ARC 45 NM VOR/DME MNV		
Restricted Area <i>SER-7</i> <b>MANTA</b> Aircraft Training Zone	Reserved and designated for exclusive use by SO flights only.	011906S0802959W  DME ARC 25 NM VOR/DME MNV COORD 005604S0803943W – 012101S0803803W  DME ARC 25 NM VOR/DME MNV – 014056S0803622W DME ARC 45 NM VOR DME MNV – 013727S0802203W  DME ARC 45 NM VOR/DME MNV	<u>20 000ft</u> 8 000ft	PERMANENTLY ACTIVE
Restricted Area <i>SER-8</i> <b>ORION</b> Aircraft Training Zone Fuel Dump Zone Engine Test Zone	Reserved and designated for exclusive use by SO flights only. Aircraft request clearance to civilian and military ATC to entry	003423S0805210W DME ARC 25 NM VOR/DME MNV COORD 005604S0803943W – 005604S0803943W  DME ARC 25 NM VOR/DME MNV – 001640S0803248W  DME ARC 40 NM VOR/DME MNV – 002122S0805938W  DME ARC 40 NM VOR/DME MNV	<u>20 000ft</u> 8 000ft	PERMANENTLY ACTIVE
Restricted Area <i>SER-11</i> <b>PASTOR</b>	Reserved and designated for exclusive use by SO flights only.	6NM RADIUS OF 005000S0773300W	<u>FL100</u> SFC	PERMANENTLY ACTIVE
Restricted Area <i>SER-12</i> <b>DAYUMA</b> Aircraft Training Zone	Reserved and designated for exclusive use by SO flights only.	003700S0770000W – 001800S0762045W – 004300S0755100W – 010418S0770000W	<u>FL240</u> FL050	PERMANENTLY ACTIVE
Restricted Area <i>SER-13</i> <b>MONTECRISTI</b> Firing Range Aircraft Training Zone	Reserved and designated for exclusive use by SO flights only.	010015S0804140W – 010015S0804345W – 010340S0804648W – 010610S0804648W – 010610S0804140W	<u>3 000ft</u> SFC	PERMANENTLY ACTIVE
Restricted Area <i>SER-14</i> <b>ESMERALDAS</b> Naval Operations	Reserved and designated for exclusive use by SO flights only.	004533N0795307W DME ARC 20 NM VOR/DME ESV COORD 005819N0793743W – 005500N0802100W – 002048N0804530W – 000400N0803112W – 000430N080200W – 004533N0795307W	<u>FL250</u> SFC	PERMANENTLY ACTIVE
Reserved Area <i>SET-1</i> <b>TAURA</b> Volcanic Ash alternative route	Area design to operate airway W33 UT33 - 10 NM	012231S0784600W – 014238S0784917W – 014404S0792829W – 012331S0791324W	<u>FL120</u> SFC	By NOTAM By ATC
Dangerous Area <i>SED-1</i> <b>SANGAY VOLCANO</b> Volcanic Eruption, ash, and gases.	Volcanic Activity Fly over your own risk	10 NM RADIUS OF 020000S0782100W	<u>FL 240</u> SFC	PERMANENTLY ACTIVE





### Item 3. Controlling military units and other SO units other than civil ATS

ID	Call Sign	Frequency	FRA	GCA	Notes
SEFG_MIL_FSS	GUAYAQUIL MILITARY CONTROL	123.200	ADC	YES	Only OAT traffic, Control over special areas, surveillance services.
SETA_MIL_APP	TAURA CONTROL	122.000	AS3	YES	OAT and GAT Traffics Control SEP-1 and SER-2
SETA_MIL_TWR	TAURA TOWER	122.100	AS3	YES	NONE
SEBB_MIL_TWR	LA BALBINA TOWER	118.750	AS2	YES	Ground coordination at SEBB, Meteorological information, clearance mil aircraft near SEBB

**Other Positions -**

### Item 4. Divisional manual on controlling military units and other SO units.

**Under Development**

### Item 5. IVAO members registered elsewhere authorised to perform SO flights.

**Approval Not Required for Individuals In this Division.**

*Note. It is permissible for IVAO members to perform SO flights that constitute participation in international SO events, international SO tours, or divisional SO tours without authorisation of any division.*

### Item 6. SOGs registered elsewhere authorised to perform SO flights.

**None**

*Note. It is permissible for SOGs to perform SO flights that constitute participation in international SO events, international SO tours, or divisional SO tours without authorisation of any division.*

### Item 7. SO—related Letters of Agreements

**None**

### Item 8. Links to additional information

**None**

— END OF DIVISIONAL SO ORDER —