



International Civil Aviation Organization

South American Regional Office

**Seventh Workshop/Meeting of the SAM Implementation Group
(SAM/IG/7) – Regional Project RLA/06/901**

Lima, Peru, 23 to 27 May 2011

SAM/IG/7-WP/20

18/05/11

Agenda Item 2: Optimisation of the ATS route structure

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(Presented by IATA - LAN Airlines)

Summary	
This working paper presents the follow up to the actions carried out at the SAM/IG meetings in relation to the route Guayaquil-Madrid that was requested by IATA at the SAM/IG/1 meeting.	
References: <ul style="list-style-type: none">• SAM ATS route network optimisation programme• SAMIG meeting reports• ATSRO meeting reports	
ICAO strategic objectives:	<i>A. Safety C. Environmental protection and sustainable development of air transport</i>

1. Background

1.1 AT the SAMIG/1 meeting held in Lima in April 2008, IATA requested in WP/24 to consider the implementation of a series of direct RNAV airways between city pairs, including the route Guayaquil-Madrid. This gave rise to coordination activities that were reflected in the final reports of subsequent meetings and that are described below.

2. Analysis

2.1 Following SAMIG/1, coordination activities started between the States concerned, IATA and the Lima ICAO Office regarding the initial request.

ESPACIO AÉREO SUPERIOR / UPPER AIRSPACE Guayaquil – Madrid		
Designador Designator (aquí los puntos significativos) (significant points here)	Latitud Latitude (en grados-minutos y segundos)/ (in degrees-minutes and seconds)	Longitud Longitude (en grados-minutos y segundos) / (in degrees- minutes and seconds)
Guayaquil VOR	S02° 07' 42.0	W79° 52' 01.0
Guayaquil / Bogota UIR	N00° 22' 11.4	W77° 11' 25.5
Bogota / Miaquetia UIR	N06° 58' 06.9	W70° 03' 52.4
Miaquetia / Piarco UIR	N12° 37' 57.5	W63° 30' 33.7
Fort De France VOR	N14° 35' 26.7	W61° 01' 22.7

2.2 The final report of the SAMIG/2 meeting, held in November 2008, reflects a change in the route to facilitate its implementation, as follows:

“Route Guayaquil–Madrid: Ecuador, Colombia, Venezuela, Trinidad and Tobago agreed on 18 December 2008 to implement this route, effective 12 February 2009. The agreed path is as follows:”

ESPACIO AÉREO SUPERIOR / UPPER AIRSPACE Guayaquil – Madrid UM 662		
Designador Designator	Latitud Latitude	Longitud Longitude
Guayaquil VOR	S02° 07' 42”	W079° 52' 01”
ASAPO	N01° 08' 57”	W079° 13' 54”
UMGEB	N00° 21' 47.18”	W077° 24' 21.48”
KADED	N06° 37' 01.3”	W069° 48' 12.9”
CABO CODERA VOR	N10° 34' 24.8”	W066° 03' 00.2”
ONGAL	N12° 51' 15”	W063° 38' 46”
Fort De France VOR	N14° 35' 24”	W061° 01' 24”

2.3 The final report of the SAM/IG/3 meeting, held in April 2009, states the following:

“UM 662 Guayaquil–Madrid: Within the framework of civil/military coordination, Venezuela continues to negotiate with the Venezuelan Air Forces a path through Venezuelan airspace. Once the path is obtained, the ICAO SAM Regional Office will be advised accordingly for the corresponding follow up.”

2.4 The final report of the SAM/IG/4 meeting, held in October 2008, specifies the following:

“UM 662 Guayaquil–Madrid: Within the framework of civil/military coordination, Venezuela continues to negotiate with the Venezuelan Air Forces a path through Venezuelan airspace. The resulting path will be reported to the ICAO SAM Regional Office during the first quarter of 2010.”

2.5 The final report of the First Workshop on SAM Route Network Optimisation (SAM ATSRO/1), held in March 2010, states the following with respect to the routes to be implemented in Version 1 of the Route Network: *“The routes that should be implemented in Version 1 are listed in Appendix B to this part of the report.”*

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Apéndice B al Informe sobre la Cuestión 2 del Orden del Día

SAM ATSRC

Versión 1 – Implantación/Realineación		
Ruta ATS	Estados involucrados	Observaciones
Santiago / Sao Paulo	Argentina, Brasil y Chile	Realineación de las rutas existentes, con miras a aumentar la eficiencia de las operaciones.
UM530 – Brasilia-Rio Branco	Bolivia/Brasil	Implantación ruta VOR RBC (FIR Amazónica / VOR BRS (FIR Brasilia) – propuesta de Brasil. Ruta ya implantada en la FIR La Paz
UM662 Guayaquil-Madrid	Colombia, Ecuador y Venezuela	Implantación Ruta Guayaquil / Madrid
UM661 – VOR Carrasco-Fijo Eretu (FIR Atlántico)	Brasil y Uruguay	Ruta ya publicada en la FIR Montevideo

2.6 The final report of the SAM/IG/5 meeting, held in May 2010, states the following:

“2.8 The meeting agreed to the early implementation of the following routes, since they have been under coordination for several years. In this regard, it agreed to the following:

• UM661:	<i>Brazil to circulate the publication on 03/06/10 and implement on 29/07/10.</i>
• UM532	<i>Brasilia/Cuara segment: Brazil to circulate the publication on 26/08/10 and implement on 21/10/10.</i>
• UM403:	<i>Brazil/Paraguay to circulate the publication on 26/08/10 and implement on 23/09/10.</i>
• Lima/Miami:	<i>That it be published on 23/09/10 and implemented on 18/11/10.</i>
• UM 662	<i>Guayaquil/Madrid: that it be published on 21/10/10 and implemented on 18/11/10.</i>
• Cordoba VOR/Bitak/Aldeia VOR (UM400):	<i>That it be published on 23/09/10 and implemented on 18/11/10.”</i>

2.7 The final report of the Second Workshop on the Optimisation of the SAM Route Network (SAM ATSRO/2), held in August 2010, addresses issues related to Version 1 of the Route Network, but does not include the route Guayaquil-Madrid, since it had an early implementation date already assigned.

2.8 Appendix A to the final report of the SAM/IG/6 meeting, held in October 2010, specifies the “Status of implementation of the conclusions and/or tasks generated by SAM/IG meetings”:

No.	Tarea a desarrollar	Tareas específicas	Entregables	Fecha de finalización	Responsable	Miembros de apoyo para la tarea	Estado de ejecución
1-3	UM 662 Guayaquil – Madrid	Coordinar la implantación Emitir AIC Capacitar personal Enmendar ANP CAR/SAM	Ruta implantada	Falta acuerdo en Venezuela con la FAV	Estados Secretaría	RO/ATM RO/AIM	Válida (Ver cuestión 2, SAM/IG/5).
1-4	UM 527 Lima – Madrid	Coordinar la implantación Emitir AIC Capacitar personal Enmendar ANP CAR/SAM	Ruta implantada	Acuerdo de implantación 24 de Septiembre de 2009	Estados Secretaría	RO/ATM RO/AIM	Finalizada 24/9/09

The status of implementation column indicates: “See Agenda Item 2 of the SAM/IG/5 meeting”, which is reflected in item 2.6 of this paper.

3. Suggested action

The States involved in the aforementioned request are invited to make a pronouncement in this regard, since, although it has been under consultations for more than three years, IATA considers that it is still pending implementation and lacks a final answer.
