



International Civil Aviation Organization
UNDP/ICAO Regional Project RLA/98/003
Transition to the CNS/ATM Systems in the CAR and SAM Regions

Fourth Meeting/Workshop of Air Traffic Management (ATM) Authorities and Planners
(AP/ATM/4)

Santa Cruz, Bolivia, 27-31 January 2003

Agenda Item 1: **Review of the Implementation Program of RNAV routes**

Implementation of RNAV route Asuncion - Campo Grande

(Presented by Paraguay)

Summary

This working paper presents information on the intention to establish a RNAV route between Asuncion - Campo Grande.

References

- *Annex 11 Air Traffic Services*
- *Doc. 9426 ATS Planning*

1. **Introduction**

1.1 A note has been received from **TAM-MERCOSUR** requesting the approval and authorization of the Paraguayan aeronautical authority for flights between **Asuncion (ASU) and Campo Grande (CGR)**, and to consider the establishment of a direct route to join both points as there is no direct route between both cities.

1.2 The use of current ATS routes would demand a high fuel burn and flight time.

1.3 As a result of the above and in order to enable the use of aircraft equipment to make autonomous navigation and, therefore, reduce operational costs, the Paraguayan Civil Aviation

Administration, as a first action, created a joint working group DINAC / TAM MERCOSUR, to make the corresponding analysis in order to establish a direct route between *Asuncion* (Paraguay) and *Campo Grande* (Brazil).

2. Discussion

2.1 In an effort to strengthen regional air services, the airlines search the means to re-establish operations regularity, after the negative impact in the civil aviation industry resulting from the attempts occurred 11 September 2002 in the United States.

2.2 The Paraguayan Civil Aviation Administration recognizes this effort and provides the means available in order to reduce flight operational costs.

2.3 The economical benefits and the operational advantages from the establishment of *RNAV* route *ASU – CGR* would satisfy a need of TAM – MERCOSUR enterprise, besides the Aeronautical Administrations of the States involved.

2.4 The implementation of this route will not be part of the regional routes network and would only affect the States involved.

2.5 The general information of *RNAV* route *ASUNCIÓN – CAMPO GRANDE* and the tentative application programme are described in Attachment “A” to this working paper.

3. Actions Suggested

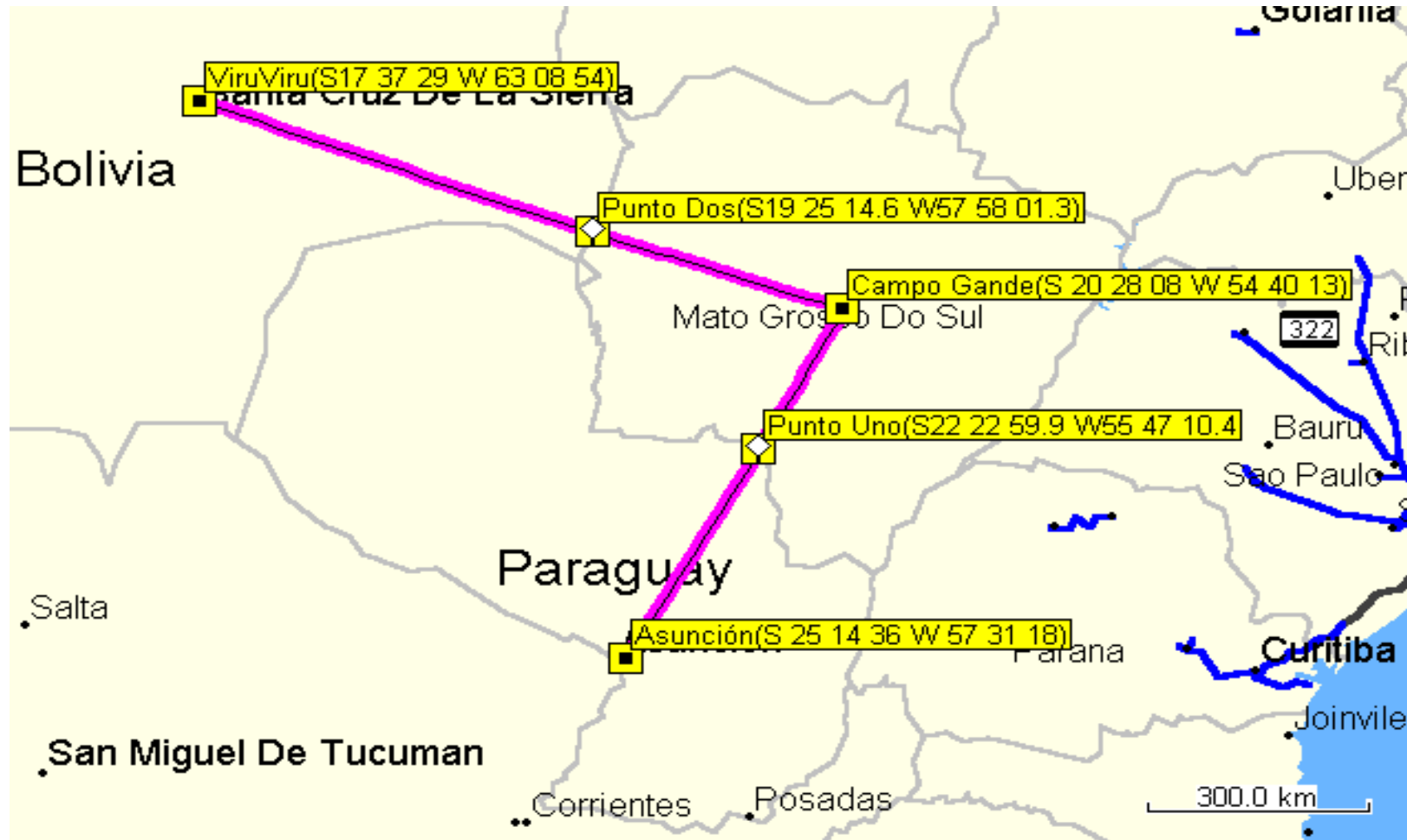
3.1 The meeting is invited to:

- a) Take note of the information contained in this working paper; and
- b) Encourage the Brazilian Aviation Administration to the implementation of *RNAV ASU-CGR* route.

GENERAL DESCRIPTION OF RNAV ROUTE UT--- (ASUNCION/ CAMPO GRANDE)

RNAV ROUTE UT --- ASUNCION / CAMPO GRANDE			
FIR's OR SIGNIFICANT POINTS	LATITUDE	LONGITUDE	COD
ASUNCION / VOR – DME	S 25° 14' 36''	W 57° 31' 18''	VAS
SGFA / SBCW LIMIT	S 22° 22' 59.9''	W 55° 47' 10.4''	XXXXX
CGR / VOR – DME	S 20° 28' 08''	W 54° 40' 13''	CGR
FIRS INVOLVED: ASUNCION, CURITIBA			

RUTAS RNAV ASUNCIÓN | CAMPO GRANDE | SANTA CRUZ



Activities under the responsibility of the States and International Organizations, which FIRs are involved

ACTIVITY	FINALIZATION DATE	REMARKS
-1-	-2-	-3-
Agreement of RNAV route to be implemented	AP/ATM/4 Meeting	Route trajectories, check points, agreement, etc. defined in the Fourth Meeting/workshop of ATM authorities and planners (27-31/01/03)
Review of bilateral/multilateral agreements between services provides and/or identification of cases indicating their need.	AP/ATM/4 Meeting	Regarding the routes trajectories, check points (included geographical coordinates), agreements, etc. During the AP/ATM/4 Meeting.
Verify and approve geographical coordinated	AP/ATM/4 Meeting	It is expected to establish geographical coordinates during the meeting. If not, the necessary coordinations for that purpose will be made through the ICAO SAM Regional Office.
Distribution of ANP CAR/SAM proposal for amendment by the corresponding ICAO NACC and SAM Regional Offices.	AP/ATM/4 Meeting	The distribution of the proposal for amendment will enable the parties involved expressing their comments or remarks.
Submission of comments or remarks on the ANP CAR/SAM proposal for amendment by the corresponding ICAO NACC and SAM Regional Offices.	AP/ATM/4 Meeting	The timely answer to the proposal for amendment will enable a quick processing of the comments or remarks for its submission to ICAO Council and further approval.