

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



PROJECT REQUEST FORM

Commission: Cartography Commission

Name of Project: Aeronautical Chart Standardization

Project No. (assigned by the General Secretariat): 3.1.1.1

Agency executing the Project: Committee on Aeronautical Charts

National Section presenting the Request: United States of America

Type of Project: Multi-national

Name of responsible official: Raoul Alvarez

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I. Other Specifications of the Project:

- a) **Beneficiary countries: All member nations of PAIGH producing VFR Aeronautical Charts.**
- b) **Other Member States which have confirmed their participation:**

Name & Address:

Argentina- Departamento Cartografía e Informacion Aeronáutica
Direccion de Transito Aéreo
1104 Cap Fed
Buenos Aires, Argentina

Brazil- Instituto de Cartografía Aeronáutica
Aeroporto Santos Dumont, Anexo 1
20021-130, Rio de Janeiro, Brazil

Chile- Servicio Aerofotogramétrico de la Fuerza de Chile
Aeropuerto Los Cerrillos
Casilla 67 Los Cerrillos
Santiago, Chile

Uruguay- Servicio de Sensores Remotos Aeroespaciales
Fuerza Aérea Uruguaya
Brigada Aérea -1 -Ruta 101 KM 19
Aeropuerto Internacional de Carrasco
Montevideo, Uruguay

c) <u>Cost of the Project</u>	<u>US\$</u>
Requested from PAIGH:	9,000.00
Requesting Agency:	14,300.00
Financial contribution from other institutions:	12,000.00
Total US\$:	35,300.00

II. Justification of the Project:

a) Outline of the problem:

Aviation has played an important part in the economic development of the Western Hemisphere. In a comparatively short period of time, airlines carrying passengers and freight have made isolated places accessible on a regularly scheduled basis. The increasing air traffic has of necessity led to the establishment of a requirement for the production of standardized aeronautical charts and flight information publications essential to flight planning, operations and safety. Aeronautical charts, in order to be most effective, must be made available through the application of modern cartographic technology in conformance with documented specifications and quality assurance criteria. This Project supports the strengthening of democracy by ensuring air safety for both business and tourism travel throughout the region. It fosters mutual confidence among nations by promoting common standards in the compilation and portrayal of aeronautical charts throughout the Western Hemisphere. Scientific and technical cooperation is enhanced between PAIGH and ICAO.

b) Background:

In 1977 at the XIII Consultation held in Quito, Ecuador the Pan American Institute of Geography and History (PAIGH) Committee on Aeronautical Charts set up a working group dedicated to the standardization of production specifications designed to prepare Visual Flight Rules (VFR) Charts which would enhance safety of flight. The continuation of the project was reaffirmed by resolution at the XIV Consultation (Santiago, Chile), the XV Consultation (Rio de Janeiro, Brazil), the XVI Consultation and the XVII Consultation (both in San Jose, Costa Rica).

The Working Group is comprised of personnel drawn from PAIGH Member States' which have the responsibility for aeronautical charting and /or flight information publications standards. Active participation has in the past included members from Argentina, Brazil, Canada, Colombia, Mexico, Panama, Uruguay and the USA. These representatives are the experts in aeronautical charting and have access to the excellent cartographic and air navigation data and resources of the agencies which they represent.

c) Objectives

The objectives of Project 3.1.1.1 are:

- (1) Continue to use the yearly meeting for the exchange of aeronautical data and as a forum for the discussion and resolution of problems in aeronautical charting.
- (2) Maintain a standardized glossary of terminology to be used in aeronautical charting.
- (3) Produce and maintain Technical Procedures for the Production of Aeronautical Charts to ensure compatibility and reliability of aeronautical charts produced by Member Nations.
- (4) Maintain the Quality Control Manual for VFR charting. This will assist production elements in utilizing standard quality procedures in a production environment.
- (5) Develop and maintain a standardized maintenance criteria for VFR charts to ensure consistency and compatibility of criteria among PAIGH member states.
- (6) Develop and maintain VFR Specifications, Symbol Appendices, and Style Sheets to reflect current PAIGH aeronautical charting requirements for the scales 1:2,000,000; 1:1,000,000; 1:500,000; and 1:250,000.
- (7) Promote the adoption of the English (Foot) System for aeronautical charting.
- (8) Encourage cooperative mapping program agreements between member countries and mutual cooperation for aeronautical charting with the International Civil Aviation Organization (ICAO).

d) Stages

Since project establishment, the Working Groups have been active in the preparation and dissemination of standardized VFR aeronautical chart production specifications in both Spanish and English language versions. The VFR Aeronautical Chart specifications are in need of constant updating and the 2000 meeting activities will be directed to accomplishing this requirement.

Working with the GREPECAS Subgroup of the ICAO, the Committee encourages cooperation in the aeronautical charting field and the adoption of WGS-84 as the standard datum for building aeronautical charts.

III. Products or fruits to be generated by the Project. Benefits for the participating country or countries.

Published documents exist for the following manuals and specifications: Quality Control Manual for Aeronautical Chart Production (1990), Glossary of Cartographic Terms for VFR Aeronautical Charts (1992), Manual of Technical Procedures for the Production of Aeronautical Charts (Part I-Compilation (1996) and (Part II – Color Separation (1998) and Production Specifications for Aeronautical Charts – Scale 1:2,000,000 (1989), 1:1,000,000, 2nd Edition (1994), 1:500,000, 2nd Edition (1997). Work continues on the 1:250,000, 2nd Edition and a Product Evaluation Handbook for chart maintenance.

PAIGH Member States actively engaged in VFR Aeronautical Chart production utilize these specifications as their basic guides.

IV. Program of Activities:

<u>Description</u>	<u>Milestone Chart</u>
a. 2000 working meetings to be held either in Rio de Janeiro or Mexico City.	March or May, 2000 announcement of meetings.
b. Complete work on the “Product Evaluation Handbook” for the evaluation of aeronautical charts.	1999 publication date.
c. Complete work on the 1:250,000 Scale VFR Aeronautical Chart Specifications, 2 nd Edition.	1999 publication date.
d. Initiate work on the revision of the 1:2,000,000 Scale VFR Aeronautical Chart Specifications, 1 st Edition, 1989.	2000 publication date.