

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 1

REPORT OF THE COMMISSION'S CHAIRMAN

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That the Chairman of the Cartography Commission of the Pan American Institute of Geography and History (PAIGH) has presented a report for the period 2001-2005;

RESOLVES:

1. To approve the said Report.
2. To congratulate the members of the Cartography Commission, especially the Advisory Committee, the Committee Chairpersons, Heads of Working Groups, and the principal members representing each country before this Commission.
3. To thank the members of the Cartography Commission of the PAIGH for their dedication and hard work to achieve the objectives of the Institute.

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PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

**RESOLUTION No. 2
ELECTION OF AUTHORITIES**

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That stipulated by the Regulation of the Commission;

The presentation of candidates enacted by Member States;

That stipulated by the First Plenary Session;

RESOLVES:

To present to the XVIII General Assembly of PAIGH the designation of Ing. Rodrigo Barriga Vargas and Prof. Alejandra Coll Escanilla, both of Chile, as Chairman and Vice-Chairwoman, respectively, of the Cartography Commission for the Quadrennial 2006-2009.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 3

OBJECTIVE OF THE CARTOGRAPHY COMMISSION

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That the Chairmanship of the Cartography Commission presented for the consideration of the XX Consultative Meeting its objectives for the Quadrennial 2006 - 2009;

That Member States have agreed to the need to redefine the objectives of this Commission in concordance with new technologies;

RESOLVES:

1. That the Cartography Commission in the Quadrennial 2006 – 2009 shall give priority to the promotion of activities that stimulate and assist the development of Geospatial Data Infrastructures at the national, sub-regional and regional levels among the Member States of the PAIGH.
2. That the Cartography Commission shall favor the production, access to and application of Fundamental and Thematic Data, indispensable to assisting the processes of planning and decision-making for the achievement of economic and social development of the Member States of the PAIGH.
3. That the Cartography Commission actively widen its participation with other organizations.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 4

LINES OF ACTION OF THE CARTOGRAPHY COMMISSION

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That in order to meet the objectives of the Commission in the Quadrennial 2006-2009, it is necessary to define clear lines of action;

RESOLVES:

1. To strengthen ties, exchange information and studies with international technical institutions for the definition of the Spatial Data Infrastructures (SDIs).
2. In so far as is possible given its means, the Commission try to obtain the scientific, technical and financial resources to develop programs of regional interest with the aim of improving the GDIs of Member States.
3. To promote and support the transfer and interchange of technologies, and the application, development, and training in the disciplines of the geosciences that support the GDIs.
4. With the efficient use of technology, cartographic processes and products, in combination with other adequate information, will seek close cooperation with specialized national or international organisms and the National Sections.
5. It will aim for a normalization of information in the production, access to, interchange of, and use of geospatial data in each country, in order to make it adequate to the necessities of the organizations that interact with the geospatial data of the GDIs.



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

6. It will promote the formulation and presentation of “Technical Assistance Projects” among the Committees and Working Groups of the National Sections, for the development of specialized studies for the benefit of the region, to be financed by the PAIGH.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 5

STRUCTURE OF THE CARTOGRAPHY COMMISSION

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The recommendations offered by Member States in the Consultative Meeting;

That it is necessary to consider a restructuring of the Cartography Commission in order to optimize the activities of the Committees, and the Working Groups that are effectively in a condition to meet the objectives of the PAIGH;

RESOLVES:

1. That the Cartography Commission shall have the following structure during the quadrennial 2006 – 2009, considering the fulfillment of the objectives that are indicated in each case:

a. Policy Committees

1) Advisory Committee of the Commission

Country responsible: Chile

To advise the Chairman of the Commission in tasks of a specialized character for the fulfillment of their objectives, especially in the process of evaluating technical assistance projects. This committee shall be comprised of specialists in the geosciences and function in the country base of the Commission. Nevertheless, whenever possible, it should include representatives from all member countries of the PAIGH.

2) Geospatial Data Infrastructures Committee

Country responsible: Colombia

To attempt the normalization of contents, precision, formats, and structures of the geospatial and cartographic data in order to facilitate



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

the integration of these data, thereby adapting them to the needs of the development of GDIs at the Pan American level. Additionally, to normalize the practices of access and distribution.

3) Committee on Institutional Strengthening and Technical Cooperation

Country responsible: USA

Special emphasis will be given to the promotion and extended use of the transfer and exchange of technologies, their application, and the development and training in the geoscience disciplines that assist with the GDIs in the Americas.

4) Communications Committee

Country responsible: Chile

To promote the preparation and production of information of the Commission with the objective of maintaining communication with the relevant scientific disciplines and with other organizations.

To develop activities to publish annually the *Revista Cartográfica* of the PAIGH, selecting, among the contributions presented by specialists of member countries, those articles of major interest for the development of cartography and related themes at the regional level.

b. Technical Committees and Working Groups

1) Reference System for the Americas (SIRGAS) (Working Group)
Country responsible: Brazil

To define, produce, maintain and aim to consolidate the tri-dimensional geocentric reference system in the Americas.

2) Geographic Names (Working Group)
Country responsible: USA

To seek to identify uniformity in the writing of geographic names at the regional level, in cartography as in the different geo-cartographic works that member countries publish.

3) Tactile Cartography (Working Group)
Country responsible: Chile



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

To diffuse geographic and cartographic concepts that permit the promotion of the use of tactile cartographic materials in the teaching of geography of the territories of member countries to the visually and auditory handicapped.

4) Global Map of the Americas (MGA) (Working Group)

Country responsible: Chile

To promote Pan American integration via cartography, considering the development of geospatial information as an agent of cooperation in the communities of the Americas.

5) Hydrography (Technical Committee)

Country responsible: Ecuador

To promote technical cooperation in matters related to hydrography, nautical cartography and navigational security among the specialized organizations of member countries of the PAIGH, with the purpose of facilitating the exchange of respective information and/or scientific and technical developments.

6) Aeronautic charts (Technical Committee)

Country responsible: Chile

To promote technical cooperation in matters related to aeronautic cartography, aerial navigational security and standardization among specialized organizations of member countries of the PAIGH, with the purpose of facilitating the exchange of respective information and/or scientific technical developments.

7) Fundamental data (Working Group)

Country responsible: Colombia

To promote technical cooperation among specialized organizations of member countries of the PAIGH in matters related to basic cartography (geoid, vertical and horizontal control, elevations, transport, politico-administrative boundaries, etc.), with the purpose of facilitating the exchange of pertinent information and/or scientific technical advances. Additionally, to promote technical cooperation among the specialized technical organizations and the different sectors of member countries of the PAIGH.



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

8) Thematic Cartography and applications (Working Group)

Country responsible: Argentina

To promote technical cooperation among specialized organizations of member countries of the PAIGH in matters related to thematic cartography (Cover and land use, urban cartography, geology et al.) with the purpose of facilitating the exchange of pertinent information and of technical and scientific development. Also, to develop technical cooperation among the specialized organizations of member countries of the PAIGH and the sectors who use geospatial and scientific information.

9) Editor of the *Revista Cartográfica* (Technical Committee)

Country responsible: Chile

To develop the necessary activities to publish annually the *Revista Cartográfica* of the PAIGH, selecting, among the contributions presented by specialists of member countries, those articles of greatest interest for the development of cartography and related themes at the regional level.

The structure and functioning of the working groups shall be flexible so that they may be modified according to the necessities and interests of member countries of the PAIGH.

2. Those responsible for each Committee and Working Group shall be designated by the respective National Section, who must maintain a permanent link with the Chairman of the Cartography Commission in order to keep him informed of each of the activities being developed. In a complementary manner they shall prepare semester and annual reports that will be incorporated into the respective Report that the Chairman of the Commission presents to the Authorities of the PAIGH.
3. To work with the National Sections, Committees and Working Groups so that these prepare the contact lists of their members, and that they share them with the National Sections and all members of the committees and working groups.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 6

APPLICATION PROJECTS

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

Given the need to improve the development of technical projects of interest to the Cartography Commission in combination with the other commissions of the PAIGH;

That natural disasters are today an important topic in many nations that suffer the attacks of nature (earthquakes, tsunamis or tidal waves, hurricanes, etc.);

That each of the Commissions of the PAIGH could provide important contributions within their specialty of applied studies;

That proposed by the Cartography Commission of the National Section of the USA;

That proposed by the Scientific Policy Committee;

RESOLVES:

1. To instruct the Advisory Committee of the Cartography Commission to offer advice to the National Sections of the PAIGH regarding the formulation of Applied Projects that involve and integrate in a joint effort, ideally among all the Commissions of the PAIGH, oriented to studies of natural disasters, of the zonification of risk areas or other themes of interest, that occur frequently in our region, that have demonstrated the need of having cartographic information in the spheres of history, geophysics and geography.
2. To instruct the Advisory Committee of the Cartography Committee that it propose an evaluation model for Technical Assistance Projects according to the new



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

exigencies, so that it be placed in consideration by the General Secretariat of the PAIGH.

3. To establish a temporary Working Group dependent on the General Secretariat to elaborate a proposal for an interdisciplinary project that uses the knowledge and capacities of all the Commissions. The Working Group shall include one member of each Commission. The project to be oriented towards natural disasters.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 7

GEOSPATIAL DATA INFRASTRUCTURES

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That member countries of the PAIGH need to accelerate the production of geospatial information and facilitate access to it within the context of the development strategies of each country;

That recognizing the trajectory and the competency of the PAIGH in that subject;

That the resolutions approved by the 8th Regional Cartographic Conference of the United Nations for Latin America, carried out in June 2005, in New York, establish important recommendations about this matter;

RESOLVES:

1. That the General Secretariat of the PAIGH and the Chairman of the Cartographic Commission, within the frame of the policies arranged to be executed in the Strategic Modernization Plan (Re-Engineering Plan of the PAIGH), stimulate the efforts of Member States, via the National Sections, to recognize the value of the development of the national geospatial data infrastructures, and in a similar manner, to inform the highest levels of the national governments of the necessity of helping these initiatives destined to improve the production of, access to, and application, of geospatial information.
2. That the national organizations charged with the elaboration of the spatial data infrastructures in Member States, incorporate highly-positioned officials of the government in these projects, thus encouraging the heads of the entities involved to demonstrate the advantages that the elaboration of a good infrastructure of spatial data can offer to the countries and regions.



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

3. That Member States, via their National Sections, study, promote, develop, establish and coordinate a general policy of diffusion of geospatial data.
4. That Member States, via their National Sections, openly distribute their policies of diffusing geospatial data, so that the Commission may elaborate a catalog of "Best Practices".
5. That Member States, via their National Sections, study, promote, develop, establish and coordinate a general policy of establishing prices, related to the necessities and objectives of distinct entities, such as government services, commercial enterprises, help organizations, NGOs, and international organizations like the OAS, PAIGH, and UN.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 8

DEVELOPMENT OF FUNDAMENTAL GEOSPATIAL DATA

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That the PAIGH has norms and cartographic standards for analog formats;

That there exists the need to produce, share and exchange geospatial information in digital format;

That standardization facilitates the availability, access, exchange and the applicability of information in the Americas;

RESOLVES:

1. To instruct the Geospatial Data Infrastructure Committee to continue with the study of the regional profiles of geospatial information standards based upon the advances achieved by the international organizations that regulate the subject.
2. To recommend to Member States the study and application of the normative proposed by Technical Committee 211 of the World Normalization Organization (ISO TC/211).
3. To coordinate actions so that the diverse Committees, Working Groups and members of the Commission proceed to give weight to the application of this normative in the formulation and development of the respective activities and projects that they execute.
4. To request that the Secretary General of the PAIGH invite Member States to increase the production of fundamental structured data, the development of compatible thematic applications, and to facilitate access to the said databases.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 9

INSTITUTIONAL STRENGTHENING AND TECHNICAL COOPERATION

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The need to promote institutional strengthening and technical cooperation for the development of Geospatial Data Infrastructures;

That recommended by the Scientific Policy Committee;

The need to provide technical guidelines for the generation, representation and management of geospatial information, in order to promote, and establish an order, and to give guidelines with regard to normalization, standardization and transfer of territorial information data;

RESOLVES:

1. That national agencies responsible for the production of geospatial data be invited to recognize and document the socioeconomic potential of geospatial information for their organizations and society.
2. That the countries of the region make use of the experience and the resources obtained by other countries, adopting an approach of collaboration in order to elaborate the respective infrastructures of spatial data, resorting to mechanisms of international cooperation.
3. To develop regional workshops in cooperation with other organizations and institutions that promote the increase of capacity for the management of geospatial information of Member States.



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

4. That in the diverse projects of member countries that enjoy the help of donating organisms, they consider the inclusion of financial assistance for the development of spatial data infrastructures.
5. To establish relations of cooperation and technology transfer with the working groups of CP IDEA, ISPRS, FIG, ICA, GSDI, IABIN and other organizations.
6. To develop the establishment and strengthening of training courses, workshops, conferences and symposia for the transfer and exchange of technology.
7. To instruct the Committee on Institutional Strengthening and Technical Cooperation to continue developing the respective actions in that sense.
8. That member states, insofar as is possible, to participate in the 9th International Conference on Spatial Data Infrastructures that will be held in Chile in November, 2006, in order to continue collaborating in the exchange of ideas, information, and experience on geospatial data and spatial infrastructures of data of the Americas, in support of sustainable development and the eradication of poverty.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 10

REGIONAL HYDROGRAPHIC COOPERATION

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The need to promote the institutional strengthening and technical cooperation in the Hydrographic and Nautical ambit of the region;

That recommended by the Scientific Policy Committee;

RESOLVES:

1. To recommend to member countries through the General Secretariat to continue developing the respective initiatives that help in facilitating the exchange of information and scientific-technical developments in matters related to hydrography, nautical cartography, and especially those related to navigational security.
2. To instruct the Hydrographic Technical Committee to continue developing respective actions in this sense.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 11

AERONAUTICAL CARTOGRAPHY

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The need to promote institutional strengthening and technical cooperation within the ambit of Aeronautical Cartography in the region;

That recommended by the Scientific Policy Committee;

RESOLVES:

1. To recommend to member countries via the General Secretariat to continue developing the respective initiatives to facilitate the exchange of information and scientific-technical information in matters related to aeronautical cartography, and especially in relation to the security of aerial navigation.
2. To instruct the Technical Committee on Aeronautical Charts that it participates in the respective re-conformation of the respective Working Group integrated by the International Civil Aeronautic Organization (OACI), and the PAIGH, and to evaluate the possibilities of help on the part of GEASA to facilitate technical meetings that are required to establish a working plan that permits the production of aeronautical charts at scales of 1:1.000.000 and 1:500.000 of the region.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 12

REVISTA CARTOGRAFICA

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That the annual edition and publication of the *Revista Cartográfica* has been maintained;

That it is the product of the efficient and effective work developed by the Editor of the *Revista Cartográfica*, Ing. Antonio Hernández Navarro from México, who has held that position since September 1999;

That additionally, thanks to the constant help received from the General Secretariat of the PAIGH, it has now been brought up-to-date;

RESOLVES:

1. To award special recognition, via a warm round of applause, to Ing. Antonio Hernández Navarro, for his highly successful work.
2. To request the new Editor of the *Revista* to elaborate and present for the consideration of the Chairman of the Commission, a work plan to coordinate the publications programmed for the quadrennial 2006 – 2009.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 13

GEOCENTRIC REFERENCE SYSTEM FOR THE AMERICAS

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The importance of consolidating the Geocentric Reference System for the Americas (SIRGAS);

That recommended by the Scientific Policy Committee;

RESOLVES:

1. To recommend that Member States carry on working to integrate and diffuse data on gravity and leveling, in order to help the unification of the vertical system, to bring up-to-date and integrate their national geodetic reference systems, and to produce geodetic information in conformity with the Geocentric Reference System for the Americas, SIRGAS.
2. To recommend that those member states that have not yet integrated into the Geodetic Reference System that they do so.
3. To instruct the SIRGAS Group that it continue developing the respective actions in that sense.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 14

GEOGRAPHIC NAMES

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The importance of promoting the uniformity in the writing and use of geographic names;

That recommended by the Scientific Policy Committee;

RESOLVES:

1. To recommend that Member States continue working on the standardization and diffusion of the normative nature of geographic names, to help with the uniformity in the writing and in the use of geographic names at the regional level, in cartography as well as in the different geo-cartographic works that member states publish.
2. To instruct the Working Group on Geographic Names to continue developing the respective actions in that sense.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 15

TACTILE CARTOGRAPHY

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The importance of diffusing the use of tactile material to facilitate the teaching of geographic and cartographic concepts among the visual and auditory handicapped;

That recommended by the Scientific Policy Committee;

RESOLVES:

1. To recommend that Member States continue using and participating in the process of diffusing and using tactile cartographic material and, in turn, retro-feeding the respective Working Group to facilitate the comprehension of these matters on behalf of the visually and auditory handicapped.
2. To instruct the Working Group on Tactile Cartography to continue developing the respective actions in that sense.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 16

GLOBAL MAP OF THE AMERICAS

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The importance of promoting Pan American integration through cartography;

The possibility of developing the use of data and their organization via the recommendations of the Global Map Project;

That proposed by the Scientific Policy Committee;

RESOLVES:

1. That member states, in particular via their national cartographic organisms, and especially with the help of the Cartographic Commission of the PAIGH, assist the Global Map Project and actively participate in this by providing data and information.
2. That member states make full use of their participation in the Global Map Project, especially by way of the Global Map of the Americas Project, to develop the capacity to help in establishing national and regional spatial data infrastructures and other purposes.
3. To request the General Secretariat of the PAIGH to invite Member States that do not presently participate in the Global Map Project to do so.
4. To instruct the Global Map of the Americas Working Group that it continue developing the respective actions.
5. To notify interested parties of the existence of Resolutions produced by the Global Map of the Americas Working Group and promote their application.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 17

USE OF SATELLITE INFORMATION

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The importance of satellite information to assist the development plans of the Geospatial Data Infrastructures, the preservation of the environment, the study of natural disasters, and other matters, for the benefit of the region's countries;

That proposed by the Scientific Policy Committee;

RESOLVES

1. To further the use of the distinct satellite missions, and to take into account these types of observation systems for monitoring change in the conditions of the environment at the regional level.
2. To propose that each member country via their specialized organisms, do what is necessary to obtain terrestrial observation data at a favorable reproduction and distribution cost.
3. To promote among the nations of the Americas the development of methods for the exchange of remotely-sensed data.
4. To further the use of the global digital elevation data obtained from the topography mission of the "Shuttle Radar Topography Mission" (SRTM) of the United States.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 18

**CATALOG OF THE STATE OF ADVANCE OF
CARTOGRAPHY OF THE AMERICAS**

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

Given the priority need to have a real diagnosis of the current situation of cartography in the member countries of the PAIGH;

That the previous version of this Catalog was edited in 1997, during the chairmanship of Sr. Paul Peeler, based in the USA, and was printed in the workshops of the Geological Service (USGS) of that country;

RESOLVES:

1. To carry out a cadastre and updating of the existing Catalog on "State of Advance of Cartography in the Americas", in which each National Section, via its Cartography Commission, will elaborate and send to the Chairmanship of the Cartography Commission, the updated information, considering the following themes:
 1. Large-scale maps
 2. Intermediate and small-scale maps
 3. Aeronautic charts
 4. Hydrographic charts
 5. Horizontal geodesy
 6. Vertical geodesy
 7. Gravimetry
 8. Large-scale Digital Data
 9. Intermediate and small-scale Digital Data
 10. Large-scale Image sheet



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

11. Intermediate and small-scale Image sheets

2. To complete the prototype of the Catalog during the present year, in “digital format”, and later publish it on the webpage during 2006. Once all materials have been obtained from member countries the Catalog will be produced in two versions: “digital” and “paper”.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 19

**MEMORANDUM OF COOPERATION WITH THE INTER AMERICAN
INFORMATION NETWORK ON BIODIVERSITY (IABIN)**

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The importance of promoting institutional strengthening and cooperation with international organizations related to PAIGH in the region;

The information provided by the Executive Secretary of the United States National Section;

The relevance and linkage of the activities that the Inter American Information Network on Biodiversity with the mission in areas of common interest promoted by the PAIGH;

RESOLVES:

1. To draft a Memorandum of Cooperation between the Inter American Information Network on Biodiversity and the PAIGH.
2. To propose that the General Assembly authorize the Secretary General to sign such a Memorandum.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 20

TECHNICAL ASSISTANCE PROJECTS - 2006

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That during the Consultative Meeting requests presented to the PAIGH for Technical Assistance projects in 2006 were analyzed;

That recommended by the Advisory Committee of the Cartography Commission;

That recommended by the Scientific Policy Committee;

RESOLVES:

To assist in the execution of the projects indicated, with the assignation of financial resources in accord with the following table and considering the respective observations made therein.

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

Nº	Project	Country	Responsible	Amount requested	Amount recommended	Committee / Working Group	Observations
1	Measurements of absolute gravity in Argentina	Argentina	Silvia Alicia Miranda	16,000	0	Fundamental Geospatial Data –SDI	Evaluation: good . Project that includes all the components for a local level study. Given the limited funds available, not possible to fund this year. Recommend resubmit in 2007 after widening the study to regional countries.
2	V Course on Digital Processing of Satellite Images, Cooperative Project PAIGH/AECI Spain	Bolivia	IGN Spain	8,000	8,000	Institutional strengthening and Tech. Cooperation	Evaluation: very good . This course is a priority of the Cartography Commission whose content and quality are very good.
3	SIRGAS- Geodetic Reference for the Americas	Brazil	Luiz Paulo Souto Fortes	8,000	8,000	SIRGAS	Evaluation: very good . The development of this Project is related to the conformation of a unique geocentric reference for the Americas. This type of project is within the priorities of the Commission as it homogenizes the fundamental geodesic data for the region

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

N°	Project	Country	Responsible	Amount requested	Amount recommended	Committee / Working Group	Observations
4	Technical Cooperation Project in Geographic Names of Latin America	Brazil	Moema José de Carvalho Augusto	8,000	8,000	Geographic Names	Evaluation: good . Project includes all components that justifies its execution. Must complete methodological aspects and chronogram. Fall within priority area of the Commission re standardization of geographic names and the creation and maintenance of the SDIs.
5	River Basin as basis for land planning: GIS analysis of a sub-region of the Plata basin	Brazil	Joao Moreno	12,500	0	Fundamental Geospatial Data Applications	Evaluation: good . Includes all components for a local study. Must improve methodology—more detail needed. No funding for this year but recommend resubmit next year after widening its range to examine other countries of the region

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

N°	Project	Country	Responsible	Amount requested	Amount recommended	Committee / Working Group	Observations
6	Integrating the senses in the management of Geospatial information via Tactile Cartography for deaf and blind people of Latin America	Chile	Alejandra Coll Escanilla	4,200	4,000	Tactile Cartography	Evaluation: Very good. Meets all components that justify the Project. Falls within priorities of the Commission, given that it is related to helping the cartographic knowledge of a social group of the region who need to be included in scientific discourse given their physical handicaps (blind and deaf)
7	Global Map of the Americas	Chile	Simon Edwin Hunt Wallis	10,000	3,440	Global Map of the Americas	Evaluation: good. Includes all components etc. Falls within priorities of the Commission. Establishes the coordination at regional level and falls within purview of global initiative (Global Map - ISCGM).

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

Nº	Project	Country	Responsible	Amount requested	Amount recommended	Committee / Working Group	Observations
8	Active fixed station for Haiti Republic	Chile-Haití	Leonardo Iván Pérez Álvarez	10,000	8,000	Fundamental Geospatial data SDI	Evaluation: good . Includes all components, etc. Financing justified because it is priority of Commission to increase use of technology of countries with technology most appropriate and current.
9	Spatial Data Infrastructure Course	Colombia	Dora Inés Rey Martínez	8,550	8,000	Institutional strengthening and Technical Cooperation	Evaluation: Good . A course within the priorities of Commission to train and develop SDIs at regional level
10	Elaboration of Catalog of Standard Objects for production of Regional Fundamental Geospatial Data Infrastructures of the Americas	Colombia	Dora Inés Rey Martínez	17,400	0	Fundamental Geospatial Data –SDI	Evaluation: Acceptable . Has all components etc, but funding shortage prevents financing this year. Recommend resubmit next year with more researchers from other countries.

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

Nº	Project	Country	Responsible	Amount requested	Amount recommended	Committee / Working Group	Observations
11	Publication of Management of Geographic Metadata	Colombia	Martha Ivette Chaparro Domínguez	10,000	0	Fundamental Geospatial Data –SDI	Evaluation: Acceptable . Has some components to meet requirements but needs completing. Funding shortage prevents financing this year. Recommend resubmit next year but first widening the scope to other countries.
12	Methodology to evaluate existing thematic information and confirmation of unified spatial databases	Ecuador	María Fernanda León Pazmiño	4,151	0	Fundamental Geospatial Data –SDI	Evaluation: Acceptable . Has components that define it as local level project. The theme as described is not multinational. Funding shortage prevents financing this year. Recommend resubmit next year but first widening the scope to other countries.
13	Geographic Names Course “José Joaquín Hungría Morell”	USA	Roger L. Payne	2,800	2,800	Institutional strengthening and Technical Cooperation	Evaluation: Very good High quality course (continuation) within priorities of the Commission

PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

N°	Project	Country	Responsible	Amount requested	Amount recommended	Committee / Working Group	Observations
14	To define the Fundamental database and design of GIS system of Peru	Peru	Rolando Yarihuamán Aguilar	7,800	0	Fundamental Geospatial Data --SDI	Evaluation: Acceptable. Has some components for local level project. According to Sec General the proposal was submitted outside time limit. Recommend resubmit next year alter widening to include more countries of the region.
15	II International course on "Training for the Interpretation of RADAR Orthoimages"	Venezuela	Julia Maria Miguel	8,000	0	Institutional Strengthening and Technical Cooperation	Evaluation: Acceptable. Has some components for justifying the project. According to Sec General the proposal was submitted outside time limit. Recommend resubmit next year.



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

2. To recommend to researchers the fulfillment of the respective observations, and urging those whose projects were not funded in this opportunity, to reformulate their proposals anew.
3. To recommend to the General Secretariat the assignation of additional resources for the Global Map Project, depending on the availability of funds not spent for 2006, up to US\$8.000.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 21

STRENGTHENING CARTOGRAPHIC RESEARCH IN THE AMERICAS

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That institutional strengthening depends on the development of a new understanding of society, its necessities, and science and technology in cartography and related disciplines;

RESOLVES:

To promote and assist in the strengthening of research in the cartographic and geographic institutions in all sectors, including government, academia, private industry and not-for-profit organizations.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 22

**PROPOSAL FOR THE CREATION OF COMMON STANDARDS FOR
THE MEMBER COUNTRIES OF THE PAIGH**

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That the PAIGH has norms and specifications for cartography in analog format;

That there exists the need to produce, share and exchange information among the countries of the region;

That the standardization of geospatial data facilitates the access to, the exchange of, and use of information in the Americas;

RESOLVES:

1. To evaluate, adapt and implement regional profiles of norms for the geospatial information, based on the advances gained by international organizations that regulate the matter.
2. To develop joint normalization projects in priority themes such as geodesic reference systems, object catalogs, terminology and quality.
3. To document cartographic information of member countries based on a common standard.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 23

ASSISTANCE FOR HAITI

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

That Haiti has requested the assistance of the PAIGH to develop anew its cartographic base and to construct its geospatial data infrastructure;

RESOLVES:

To invite member countries of the PAIGH to identify opportunities to assist Haiti in its efforts to develop its cartographic base and construct its geospatial data infrastructure.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 24

"CARLOS CARVALLO YÁÑEZ" CARTOGRAPHY PRIZE

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The bases of the "Carlos Carvallo Yáñez" cartography prize;

The need to encourage the production of original works in the disciplines included within the cartography commission of the PAIGH, and that represent an important contribution for continental development in these matters;

That the jury named in this Consultative Meeting rendered the verdict deciding the winner of the "Carlos Carvallo Yáñez" Cartography Prize;

RESOLVES:

To declare as winner of the "Carlos Carvallo Yáñez" Cartography Prize the National Section of the United States for the work "GSDI Cookbook", elaborated with the participation of various countries, among them some members of the PAIGH, for having been during the quadrennial 2001-2005 the most valuable and important work for continental development in matters related to this Commission.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 25

**THANKS TO THE PRESENTERS IN THE XX CONSULTATIVE MEETING
OF CARTOGRAPHY**

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The excellent quality of the presentations given during the technical sessions of the XX Consultative Meeting of Cartography;

RESOLVES:

To thank the presenters in the Technical Sessions of the XXth Consultative Meeting of Cartography for their valuable contribution in the presentations made in that meeting, that contributed to the success of the results obtained in the Consultative Meeting of Cartography.

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PAN AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY



**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 26

THANKS TO THE PERSONNEL OF THE GENERAL SECRETARIAT

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The assistance of the General Secretariat of the PAIGH to the Cartography Commission during the period 2001 – 2005;

RESOLVES:

To thank the management of the General Secretariat and make note of the effort made in the organization of the Consultative Meeting of the Cartography Commission.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 27

THANKS TO THE CHAIRMAN OF THE CARTOGRAPHY COMMISSION

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The change that occurred in the middle of the chairmanship of the Cartography Commission and the difficulty of assuming this responsibility;

The successful planning and coordination of the Cartography Commission and the outstanding leadership of the Consultative Meetings of the Commission;

RESOLVES:

1. To thank and congratulate Ing. Rodrigo Barriga for the excellent work completed and his assistance in carrying out the commitments of the Cartography Commission.
2. To invite the Chairman of the Commission to continue leading the Cartography Commission of the PAIGH with the same enthusiasm and professionalism.

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**XX CARTOGRAPHY CONSULTATIVE MEETING
CARACAS, VENEZUELA 16 – 18 NOVEMBER, 2005**

RESOLUTION No. 28

**THANKS TO THE VENEZUELAN NATIONAL SECTION
AND THE ORGANIZING COMMITTEE**

The XX Consultative Meeting of Cartography of the Pan American Institute of Geography and History (PAIGH),

CONSIDERING:

The success of the Consultative Cartography Meeting;

The work done in the organization of the XXth Consultative Meeting of Cartography by the Venezuelan delegation.

RESOLVES:

1. To express the thanks for the efforts and work undertaken by all the personnel of the Venezuelan National Section and the Organizing Committee for the organization of the Consultative Meeting.
2. To thank the staff personnel for their collaboration in the solution of problems and organization of the events during the Consultative Meeting of the Commission, that permitted such a successful result of the desired objectives.
3. To express delight at having shared this experience with our Venezuelan colleagues and to have had the pleasure of knowing their magnificent country.

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