

## Preliminary Programme

Day: 12 February 2007

9:00 a.m. – 16:00 p.m.	<b>Workshop “Marine Spatial Data Infrastructures” International Hydrographic Bureau / Hydrographic and Geodetic Service of the Republic of Cuba</b> Coordinators: Michel Huet, IHB Monaco Tatiana Delgado Fernández, GEOCUBA Venue: Conventions Palace
9:00 a.m. – 16:00 p.m.	<b>Workshop “Remote Sensing”, Spatial Research National Institute, Brazil / GEOCUBA</b> Coordinators: Gilberto Cámara, INPE Brazil Eloy Pérez García, GEOCUBA
9:00 a.m. – 16:00 p.m.	<b>Workshop “Architectonic Photogrammetry”, ISPRS/ GEOCUBA</b> Coordinators: John Trinder, ISPRS, Australia Sandra González García, GEOCUBA

# Preliminary Programme

Day: 13 February 2007

GEOMATICA Plenary ROOM

9:00 a.m. – 10:00 a.m.	<b>Central Master Conference</b>
10:00 a.m. – 10:15 a.m.	<b>Opening Ceremony V International Congress GEOMATICA 2007</b>
10:15 a.m. – 10:45 a.m.	<b>Master Conference, “Worldwide Challenges of Spatial Data Infrastructures”, Jarmo Ratia (Finland), President, Global Spatial Data Infrastructure Association - GSDI</b>
10:45 a.m. – 11:15 a.m.	<b>Master Conference, “State of the Art of Nautical Cartography”, Alexandros Maratos (Monaco), President, International Hydrographic Organization - IHO</b>
11:15 a.m. – 12:00 m.	<b>Master Conference, “Territory Management from a Geospatial Perspective”, Stig Enemark (Denmark), Presidente, International Federation of Surveyors - FIG</b>
12:30 p.m. – 1:15 p.m.	<b>Master Conference, “Photogrammetry and Remote Sensing: State of the Art”, John Trinder (Australia), Vice President, International Society of Photogrammetry and Remote Sensing – ISPRS</b>
1:15 p.m. – 2:30 p.m.	Lunch
<b>2:30 p.m. – 3:30 p.m.</b>	<b>Round Table “Challenges of Sharing Hydrographic Information at Regional Level” (Summing up of the Marine SDI Workshop)</b> <b>Chairperson: Horst Hecht, BSH, Germany</b> <b>Panelists: Vadm Alexandro Maratos, Monaco; Abbas Rajabifard, Australia; John Pepper, United Kingdom; Barrie Greenslade, United Kingdom; Jarmo Ratia, Finland; Keith Murray, United Kingdom; Michel Huet, Monaco</b>
<b>3:30 p.m. – 5:00 p.m.</b>	<b>Panel Discussion “Impact of Geomatics on the Society (Agriculture)”</b> <b>Chairperson: Pedro Martínez, GEOCUBA, Cuba</b>
3:30 p.m. – 3:45 p.m.	Petter Pilesjö, Sweden, “GIS Surface Flow Modelling – a new approach”
3:45 p.m. – 4:00 p.m.	Renato Alonso Villalobos, Cuba, “Integrated System for the development and updating of Forest Heritage Management, SIFOMAP 1.0”
4:00 p.m. – 4:15 p.m.	Sung-Min Cho, South Korea, “Use of Remote Sensing and GIS to develop Forest Information System for Degraded Forests in North Korea”
4:15 p.m. – 4:30 p.m.	Yudith Viñas, Cuba, “Geospatial System in support of decision making for the Cuban Sugar Agro Industry”
4:30 p.m. – 4:45 p.m.	Clara M. John Louis, Cuba, “Digital Cartography to support the environmental diagnosis of the Güira de Melena company, Havana”.
4:45 p.m. – 5:00 p.m.	An Notenbaert, Kenya, “Effects of climate change on the grazing systems in the pastoral district of Turkana in northern Kenya”
5:00 p.m. – 5:15 p.m.	<b>Panel Discussion “Impact of Geomatics on the Society (Transport, Communications)”</b> <b>Chairperson: Rodolfo Ríos Hernández, GEOCUBA, Cuba</b>
5:00 p.m. – 5:15 p.m.	Víctor Guillermo Flores Rodríguez, Mexico, “Development of a Geographic Information System for the safety of the road network of Guanajuato State”
5:15 p.m. – 5:30 p.m.	Osmani Herrera, Cuba, “Web GIS ETECSA”
5:30 p.m. – 5:45 p.m.	Adelino Ferreira, Portugal, “A GIS-based integrated Infrastructure Management System for local municipalities”
5:45 p.m. – 6:00 p.m.	Murat Ergun, Turkey, “GIS-Based transportation Infrastructure Management Systems: Case of Sariyer”

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GEOMATICA Alternative ROOM

1:15 p.m. – 2:30 p.m.	Lunch
<b>2:30 p.m. – 4:00 p.m.</b>	<b>Panel Discussion “Technology, Organization and Quality of Cartographic Information”</b> <b>Chairperson: Jesús Olvera, INEGI Mexico</b>
2:45 p.m. – 3:00 p.m.	Silvio Rodríguez, Cuba, “Methodology for the establishment of digital cartographic databases in support of the National System of Protected Areas in Cuba”.
3:00 p.m. – 3:15 p.m.	Javier González Matesanz, IGN Spain, “Towards an Integral GIS Cartographic Production in the National Geographic Institute of Spain”
3:15 p.m. – 3:30 p.m.	Alina del Río Marceau, Cuba, “Digital Map at scale 1:1 000 000 of the Republic of Cuba for the International Project - Global Map”
3:30 p.m. – 3:45 p.m.	Raúl Correa Cobas, Cuba, “Technology for the production of digital topographic maps at scale 1:25 000 with the NEVA system”
3:45 p.m. – 4:00 p.m.	Daniel Ponce de León Lima, Cuba, “Positional and thematic accuracy of the digital version of the National Map of Cuban soils at scale 1:25000 (series Pinar del Río)”
<b>4:00 p.m. – 6:00 p.m.</b>	<b>Panel Discussion “Geomatics for the Environment and Sustainable Development”</b> <b>Chairperson: Francisco Rivero Reyes, GEOCUBA, Cuba</b>
4:00 p.m. – 4:15 p.m.	Tatiana Geler Roffe, Cuba, “Procedure to solve problems in the Environment Information System of the Sabana-Camaguey Ecosystem”
4:15 p.m. – 4:30 p.m.	Pip Forer, New Zealand, “Movement, Development and Environmental Impacts : using GIS to understand the costs and benefits of itinerant tourism”
4:30 p.m. – 4:45 p.m.	Alvaro Enrique Ortiz Dávila, Colombia, “Detection and management system of agents existing in water bodies for their conservation”
4:45 p.m. – 5:00 p.m.	Isali Azpiri Medina, Cuba, “ISOAS. Settlements’ Isolines”
5:00 p.m. – 5:15 p.m.	Julia Rosa González Garcíandía, Cuba, “Initiatives for the implementation of the Spatial Data Infrastructure of the Cuban National System of Environment Monitoring”
5:15 p.m. – 5:30 p.m.	J. Primelles F., Cuba, “Environment Information Systems as instruments for Territorial Environment Management: SIGCAM and the Environment in Camagüey municipality, Cuba”
5:30 p.m. – 5:45 p.m.	Eduardo Garea Llanos, Cuba, “Zonificación agroecológica en condiciones de montaña mediante métodos de análisis espacial”
5:45 p.m. – 6:00 p.m.	Emilio Escartín, Cuba, “GIS technology to assess wind resources for energy purpose”

# Preliminary Programme

XII Convención  
y Expo Internacional  
del 12 al 16 de febrero, en La Habana, Cuba

Day: 14 February 2007

GEOMATICA Plenary ROOM

9:00 a.m. – 10:00 a.m.	<b>Central Master Conference. “Remote Sensing for all: the Brazilian experience”, Gilberto Cámara, INPE, Brazil</b>
10:15 a.m. – 10:45 a.m.	<b>Master Conference, “Education on Geomatics. Availabilities for Latin America”, Tania María Sausen (Brazil), Chairperson of the Committee of Research and Education of the Latin American Society for Remote Perception and Spatial Information Systems (SELPER)</b>
10:45 a.m. – 11:15 a.m.	<b>Master Conference, Serguei Levachkine (Mexico), “Spatial Semantic Web”, CIC, National Polytechnic Institute of Mexico</b>
11:15 a.m. – 12:00 m.	<b>Master Conference, Harold Moellering (USA), “ Perspectives on the Development of Geospatial Data Standards”, Chairman of the Spatial Data Standards Commission of the International Cartographic Association – ICA</b>
12:30 p.m. – 1:15 p.m.	<b>Master Conference, Harlan Onsrud (USA), “Legal and Economic Issues pertaining to Spatial Data Infrastructures”, Vice President GSDI</b>
1:15 p.m. – 2:30 p.m.	Lunch
<b>2:30 p.m. – 4:00 p.m.</b>	<b>Round Table “Standards of Geographic Information” Chairperson: Harold Moellering, University of Ohio, USA</b>
2:30 p.m. – 2:45 p.m.	Carlos Balmaseda, Cuba, “Metadata Profile for Pedology Information based on ISO 19115 Standard”
2:45 p.m. – 3:00 p.m.	M. Tevfik Ozludemir, Turkey, “Geodetic Infrastructure and Geospatial Data Standardization for GIS application in Turkey”
3:00 p.m. – 3:15 p.m.	Rafael Oliva, Cuba, “Computer Implementation and Modeling of OGC Metadata”
3:15 p.m. – 3:30 p.m.	Rafael Rodríguez Puente, Cuba, “Experience in the development of a Geographic Information System at the University of Computer Sciences”
<b>3:30 p.m. – 5:00 p.m.</b>	<b>Panel Discussion “Remote Sensing for the Development” (Summing up of the Workshop on Remote Sensing) Chairperson: Eloy Pérez, GEOCUBA, Cuba Panel Members: Eloy Pérez, Cuba; Fernando Afanador Franco, Colombia; Argentina; Mirta A. Raed, Argentina; Roberto Torras, Argentina; Héctor F Gómez, Ecuador</b>
3:30 p.m. – 3:45 p.m.	Eloy Pérez García, Cuba, “Remote Sensing in Cuba”
3:45 p.m. – 4:00 p.m.	Roberto Torra. Argentina, “A prospective geological model applied to recognize large mineralized areas at the foreland regions of the west of Argentina: An egg-model”
4:00 p.m. – 4:15 p.m.	Héctor F Gómez A, Ecuador, “Multispectral images Classification using neural networks non- classified”
4:15 p.m. – 4:30 p.m.	Héctor F Gómez A, Ecuador, “Analysis of c4.5, Ripper and Part algorithms using rules games without global optimization and delegation elements”
4:15 p.m. – 4:30 p.m.	Sergio Lorenzo-Sánchez. Cuba, “Distribución de los hábitats bentónicos del golfo de Batabanó, Cuba, mediante la clasificación supervisada de imágenes LANDSAT-7”
4:30 p.m. – 4:45 p.m.	Julio Gómez Herrera, Cuba, “Metodología para la exploración gasopetrolífera costa afuera mediante imágenes satelitales”
<b>5:00 p.m. – 6:00 p.m.</b>	<b>Panel “Photogrammetry for the development” Presidente: Sandra González, GEOCUBA, Cuba Panel Members: Sandra González, Cuba; Bernardino Díaz, Cuba; Alexander Chibunichev, Rusia; Alexander Mihaylov, Rusia; Victor Adrov, Rusia; Eduardo Piatti, Argentina; Thomas Luhmann; Ciro Díaz, México; Feihl Olivier, Suiza; José Manuel Valle Melón, España; Heinz Ruther, Zaire, Thomas Luhmann, Alemania</b>

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GEOMATICA Alternative ROOM

1:15 p.m. – 2:30 p.m.	Lunch
<b>2:30 p.m. – 4:00 p.m.</b>	<b>Round Table “Location Based Services (LBS)” Chairperson: Raúl Álvarez, GEOCUBA, Cuba</b>
2:30 p.m. – 2:45 p.m.	Miguel Esquivel, Cuba, “Accurate agriculture in the Sugar Cane”
2:45 p.m. – 3:00 p.m.	Rafael Cruz Iglesias, Cuba, “Movilweb: Application to Fleet Monitoring based on the Spatial Data Infrastructure of the Cuban Republic”
3:00 p.m. – 3:15 p.m.	Raúl V. Muñoz, Cuba, “Basic Technology for fleet monitoring on CARTOSIG platform (delayed mode)”
3:15 p.m. – 3:30 p.m.	Alian Mayet Valdés, Cuba, “GIS for accurate agriculture with PDA and desk top computers”
<b>3:30 p.m. – 4:30 p.m.</b>	<b>Round Table “Geomatics for risk mitigation and disaster management” Chairperson: José Carlos Núñez, GEOCUBA, Cuba</b>
3:30 p.m. – 3:45 p.m.	José Carlos Núñez Mora, Cuba, “Determination of risk indicators in sustainability analysis and assessment of their use as information in Spatial Data Infrastructures”
3:45 p.m. – 4:00 p.m.	Yosvanis Díaz Pérez, Cuba, “SIGDC – Geographic Information System for Civil Defence”
4:00 p.m. – 4:15 p.m.	José Alejandro Zapata Balanqué, Cuba, “Use of Geomatics tools in the seismic micro-zonation of cities. Use case: Santiago de Cuba and Guantánamo as proposal for development management”
4:15 p.m. – 4:30 p.m.	Sulma Castañeda Herris, Cuba, “Vulnerability analysis in inundation areas of the Sagua de Tánamo territory, Province of Holguín, Cuba”
<b>4:30 p.m. – 6:00 p.m.</b>	<b>Round Table “Territorial and Cadastral Organization” Chairperson: Stig Enemark, FIG, Denmark</b>
4:30 p.m. – 4:45 p.m.	Andrés Valentín, Spain, “SITNA: System of Land Information in Navarra”
4:45 p.m. – 5:00 p.m.	Felipe Samuel Kelly, Cuba, “Development of an Information System for the National Cadastre with multipurpose interests”
5:00 p.m. – 5:15 p.m.	Francisco Salas Rosette, Cuba, “National Cadastre Information depending on the Earth Balance”
5:15 p.m. – 5:30 p.m.	Mabel Álvarez López, Argentina, “Cadastre Legal Framework in Argentina. Its importance for territory organization and management”
5:30 p.m. – 5:45 p.m.	Carlos Alberto Álvarez, Cuba, “SDI of Physical Planning”
5:45 p.m. – 6:00 p.m.	Alejandro Lugo Trujillo, Cuba, “System for Managing and updating the Forest Development, Ordena 2.0”

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y Expo Internacional  
del 12 al 16 de febrero, en La Habana, Cuba

Day: 15 February 2007

GEOMATICA Plenary ROOM

9:00 a.m. – 10:00 a.m.	<b>Central Master Conference (INFORMATICA ROOM)</b>
10:15 a.m. – 10:45 a.m.	<b>Master Conference, Keith Murray (United Kingdom), “Integrated Transport and Travel Information”, Ordnance Survey</b>
10:45 a.m. – 11:15 a.m.	<b>Master Conference, Abbas Rajabifard (Australia), “Re-engineering SDI to Support Sustainable Development”, Centre for Spatial Data Infrastructures and Land Administration.</b>
11:15 a.m. – 12:00 m.	<b>Master Conference, Joep Crompvoets (Holanda), “Exploring worldwide the influence of society on the establishment of national spatial data clearinghouses”, Centre for Geo-Information, Wageningen UR, The Netherlands</b>
12:30 p.m. – 1:15 p.m.	<b>Launching of the book “Spatial Data Infrastructures in Latin America and the Caribbean”, Tatiana Delgado Fernández (Cuba) and Joep Crompvoets (Netherlands), Project CYTED IDEDES 606PI0294</b>
1:15 p.m. – 2:30 p.m.	Lunch
<b>2:30 p.m. – 3:30 p.m.</b>	<b>Round Table “National and Local SDIs” Chairperson: Abbas Rajabifard, Australia</b>
2:30 p.m. – 2:45 p.m.	Paloma Abad Power, Spain, “The Spanish Spatial Data Infrastructure IDEE”
2:45 p.m. – 3:00 p.m.	Jorge Horacio Machuca, Argentina, “Geographic Information System on the Internet (PROSIGA)”
3:00 p.m. – 3:15 p.m.	Tatiana Delgado Fernández, Cuba, “IDERC in the institutionalization stage”
3:15 p.m. – 3:30 p.m.	Andrés Valentín, Spain, “Navarra Territorial Information System (SITNA)”
<b>3:30 p.m. – 4:30 p.m.</b>	<b>Round Table “Ontologies and SDIs” Chairperson: Serguei Levachkine, Mexico</b>
3:30 p.m. – 3:45 p.m.	José Luis Capote Fernández, Cuba, “Tocororo: Geospatial consultant for SDIs”
3:45 p.m. – 4:00 p.m.	Eduardo Garea, Cuba, “Ontology driven GIS as a tool for spatial information semantic interpretation and its integration with IDERC”
4:00 p.m. – 4:15 p.m.	Luis Manuel Vilches Blázquez, Spain, “An ontological framework of hydrographic features in the geographic information domain”
4:15 p.m. – 4:30 p.m.	Héctor F Gómez A, Ecuador, “Ontology for Geographic Information Systems”
<b>4:30 p.m. – 5:30 p.m.</b>	<b>Round Table “Geomatics: Education, History and Atlas” Chairperson: María Antonia García Cisneros, GEOCUBA, Cuba</b>
5:00 p.m. – 5:15 p.m.	Beatriz Brozota, Argentina, “Argentina in the XXIst Century: Processes that shaped it”
5:15 p.m. – 5:30 p.m.	Tomaž Podobnikar, Slovenia, “Spatial analyses to predict the Maya’s cultural environment”
5:30 p.m. – 5:45 p.m.	Erik Ellehoj, Canada, “Towards a Historical Geography of the Métis Nation: GIS and Potential Mapping of Surnames”
5:45 p.m. – 6:00 p.m.	Tania María Saucen, Brazil, “Atlas of South America and Antarctica Ecosystems from Satellite Images”
<b>5:30 p.m. – 6:00 p.m.</b>	<b>Closing GEOMATICA 2007</b>

# Preliminary Programme

Day: 15 February 2007

GEOMATICA Alternative ROOM

1:15 p.m. – 2:30 p.m.	Lunch
2:30 p.m. – 3:30 p.m.	<p><b>Panel Discussion “Geodesy and Topography”</b>  <b>Chairperson: Ernesto Rodríguez Roche, GEOCUBA, Cuba</b>  <b>Panel Members: Ernesto Rodríguez Roche, Cuba; Jorge García Díaz, Cuba; Ricardo Olivera Rodríguez, Cuba; Sandra Yanetsy Rosabal, Cuba</b></p>
3:30 p.m. – 4:30 p.m.	<p><b>Round Table “Marine Studies”</b>  <b>Chairperson: Hilario Calderón Lamotte, ONHG, Cuba</b></p>
3:30 p.m. – 3:45 p.m.	Hilario Calderón Lamotte, Cuba, “Basic Essentials for Geographic Information System applications in coastal-maritime delimitation. Case study of Cuba”
3:45 p.m. – 4:00 p.m.	Fermín Manuel Vega Desdén, Cuba, “Proposal for a theoretical model for sea current predictions”
4:00 p.m. – 4:15 p.m.	Israel Tamarit Herrán, Cuba, “Digital Cartography of coastal ecosystems for planning and managing Protected Areas”
4:15 p.m. – 4:30 p.m.	Michael Álvarez González, Cuba, “Geographic Information System for the analysis and monitoring of Aids to Navigation in Nuevitas Bay (SAYNAV)”
4:30 p.m. – 5:30 p.m.	<p><b>Round Table “Geospatial Services for SDIs”</b>  <b>Chairperson: Michael Gould, Jaume I University, Spain</b></p>
4:30 p.m. – 4:45 p.m.	Carlos Granell, Spain, “Geo-processing Services on SDIs”
4:45 p.m. – 5:00 p.m.	Rolando Pérez Martínez, Cuba, “PinarSIGWeb: Alternative freeware for a Geographic Information System”
5:00 p.m. – 5:15 p.m.	María Elena Pezoa, Chile, “WEBMAPPING: A solution for education and assistance in Municipal Management”
5:15 p.m. – 5:30 p.m.	Jorge Luis Batista Echevarría, Cuba, “First experiments in implementing GIS applications using freeware in Havana Historical Centre”

## Preliminary Programme

Day: 16 February 2007

<b>9:00 a.m. – 16:00 p.m.</b>	<b>Workshop “Education in Geomatics” INPE-SELP/ GEOCUBA</b> <b>Coordinators: Tania María Saucen, INPE, Brazil</b> <b>María Antonia García Cisnero, GEOCUBA</b>
<b>9:00 a.m. – 16:00 p.m.</b>	<b>Workshop “Ontologies of Domain” CIC-IPN Mexico/CYTED-IDEDES</b> <b>Coordinators: Serguei Levachkine, CIC- IPN, Mexico</b> <b>Tatiana Delgado Fernández, CYTED – IDEDES, Cuba</b>