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**GEOMATICA 2009**

**Seminar on  
MARINE SPATIAL DATA INFRASTRUCTURES (MSDI)  
La Havana, Cuba, 9 February 2009**

Reference: IHO Circular Letter 24/2007, dated 21 February

Dear Hydrographer,

1 The 6<sup>th</sup> International Congress of Geomatics **GEOMATICA 2009** will take place from 7 to 14 February 2009 in La Habana, Cuba, under the general theme "New Technologies: Development and Sovereignty", with the IHO as co-sponsoring international organization (More information at [http://www.informaticahabana.com/?q=en/listeventos\\_en&e=100&id=en&ci=1](http://www.informaticahabana.com/?q=en/listeventos_en&e=100&id=en&ci=1)). **GEOMATICA 2009** will include a 3-days Conference on 10-12 February and several workshops / seminars before and after the Conference. The general programme of **GEOMATICA 2009** is presented in **Annex A**. As can be seen from this programme, there will be a number of presentations dealing with Spatial Data Infrastructures (SDI) and geospatial standards.

2 In this connection, the IHB is organizing a seminar on **Marine Spatial Data Infrastructures (MSDI)** on 9 February 2009, jointly with the Cuban HO (ONHG - Oficina Nacional de Hidrografia y Geodesia). The aim of this seminar is to promote the concept of Marine Spatial Data Infrastructures in Latin America and underpin the development of best practice in the creation of marine components of National Spatial Data Infrastructures (NSDI). This follows the decision of the 17<sup>th</sup> International Hydrographic Conference, in May 2007, to establish a Marine Spatial Data Infrastructures Working Group (MSDIWG) in order to identify the Hydrographic Community inputs to National Spatial Data Infrastructures (NSDI). MSDIWG is playing a key role in the organisation of the IHO-ONHG Seminar and its findings will be presented at this occasion, before they are addressed by the 4<sup>th</sup> Extraordinary International Hydrographic Conference in June 2009. A draft programme for the Seminar is provided in **Annex B**. A range of experts will give presentations to the Seminar, which will be chaired by Capt Robert WARD, IHB Director. In addition, a 60 minutes round-table on Marine SDI will take place on 11 February, as part of the **GEOMATICA** Conference, where the outcome and recommendations from the IHO Workshop will be further discussed.

3 English and Spanish interpretation will be provided for the Congress and the Seminar on MSDI. The IHO-ONHG Seminar on MSDI is particularly targeted to Latin American countries, and it is hoped that as many representatives as possible from Member States will be able to attend these events, in particular from those Hydrographic Offices in the region.

The IHB is grateful to the Cuban Hydrographic Office and Geocuba for their support in preparing the MSDI Seminar, as well as to all those who have accepted to contribute as speakers to the Seminar.

4 Member States will be informed on the outcome of these events.

On behalf of the Directing Committee  
Yours sincerely,

A handwritten signature in blue ink, appearing to read 'R. Ward', is centered on the page. The signature is fluid and cursive, with a period at the end.

Captain Robert WARD  
Director

Encls: Annex A - Programme of GEOMATICA 2009  
Annex B - Draft Programme of the IHO-ONHG Seminar on MSDI

**GEOMATICA 2009**  
7-14 February 2009

**GENERAL PROGRAMME**

<b>Date</b>	<b>Activity</b>	<b>Details</b>
<b>Saturday 7</b>	Pre-Congress Workshops	SDI and ISO 19100: Open source in geoinformatics
<b>Monday 9</b>	Pre-Congress Workshops	Remote sensing for the development
		Education in geomatics
		Photogrammetry
		Modern geodetic reference systems
		Precision agriculture
		Assessing SDI impact on society
		Marine spatial data infrastructures
<b>Tuesday 10</b>	Opening Ceremony	
	Conferences	
	Technical Sessions	
<b>Wednesday 11</b>	Conferences	
	Technical Sessions	
<b>Thursday 12</b>	Conferences	
	Technical Sessions	
	Closing Ceremony	
<b>Friday 13</b>	Post-Congress Workshops	UN IG delivering as SDIs: National and regional perspectives
	Post-Congress Workshops	Spatial semantic for sustainable development
<b>Saturday 14</b>	Post-Congress Workshops	Caribbean SDI and risk management

Day: Tuesday 10 February 2009

Plenary Room GEOMATICA

9:00 a.m. – 10:00 a.m.	<b>Central Master Conference of the Convention</b>
10:00 a.m. – 10:45 a.m.	<b>Opening Ceremony VI International Congress GEOMATICA 2009</b> (Cuban Hydrographic Service: Oficina Nacional de Hidrografía y Geodesia/ GEOCUBA/ ISO TC 211/ IHB/ SELPER/ OSGeo)
10:45 a.m. – 11:30 a.m.	<b>Master Conference “GIS 21: The new generation of Geographic Information Systems”</b> Gilberto Cámara, Director of Brazil’s National Institute for Space Research (INPE)
11:30 a.m. – 12:15 m.	<b>Master Conference “ISO 19100 Standards Series on Geomatics”</b> Olaf Ostensen, Chairman of ISO TC 211 Committee - Geomatics, Norway
12:15 p.m. – 1:00 p.m.	<b>Master Conference “S-100 – The New Hydrographic Geospatial Standard for Marine Data and Information”</b> Captain Robert Ward, Director, International Hydrographic Bureau, Monaco
1:00 p.m. – 2:00 p.m.	LUNCH
2:00 p.m. – 3:00 p.m.	<b>Panel Discussion “Standards in force on Geographic Information”</b> Hans Knoop, co-chair Outreach Group ISO TC 211, Germany/ Jean Brodeur, Canada/ Lilia Patricia Arias, Colombia/ Mabel Pérez, Cuba ...
3:00 p.m. – 4:00 p.m.	Panel Discussion
4:00 p.m. – 5:00 p.m.	Panel Discussion
5:00 p.m. – 6:00 p.m.	Panel Discussion

Day: Wednesday 11 February 2009

Plenary Room GEOMATICA

9:00 a.m. – 10:00 a.m.	<b>Central Master Conference of the Convention</b>
10:00 a.m. – 10:35 a.m.	<b>Master Conference “The definition of Open in OGC, OSGeo and OSM”</b> Arnulf Christl, Chairman OSGeo, Germany
10:35 a.m. – 11:10 a.m.	<b>Master Conference “Development of Spatial Data Infrastructures at the Global Level”</b> Abbas Rajabifard, Director, Centre of Spatial Data Infrastructures and Land Administration, Geomatics Department, University of Melbourne, Australia
11:10 a.m. – 11:45 a.m.	<b>Master Conference “INSPIRE: Spatial Data Infrastructure Initiative of the European Union”</b> Alessandro Annoni, Director, Spatial Data Infrastructure Unit - Joint Research Centre Institute for Environment and Sustainability, Italy
11:45 a.m. – 12:20 m.	<b>Master Conference “Cost/Benefit assessment of SDIs impact”</b> Roger Longhorn, co-Chair, GSDI Assoc. Legal & Economic W.G., United Kingdom
12:20 p.m. – 1:00 p.m.	<b>Master Conference “Technologic Trends in Spatial Data Infrastructures: State of the Art and Prospects for the Future”</b> Michael Gould, Profesor, University Jaume I, Spain
1:00 p.m. – 2:00 p.m.	LUNCH
2:00 p.m. – 3:00 p.m.	<b>Panel Discussion “Free Software for Geo-informatics (FOSS4G)” (Including LiveCD)</b> Ibero-American Group of OSGeo: Lorenzo Becchi, Spain/Jorge Gaspar Sans, Pedro Juan Ferrer Matoses, Spain/ Jorge L. Batista, Cuba
3:00 p.m. – 4:00 p.m.	<b>Panel Discussion “A multi-view framework to assess Spatial Data Infrastructures”</b> Joep Crompvoets, Belgium/ Abbas Rajabifard, Australia/ Bastiaan Van Loenen, Netherlands/ Tatiana Delgado, Cuba
4:00 p.m. – 5:00 p.m.	<b>Panel Discussion “Local, National and Regional SDIs”</b> Auspices: Ibero-American Programme on Sciences and Technology for Development - CYTED and UN National / Regional Agencies
5:00 p.m. – 6:00 p.m.	<b>Panel Discussion “Marine SDIs”</b> John Pepper, United Kingdom/ Robert Ward, IHB, Monaco/ Michel Huet, IHB, Monaco ...

Day: Thursday 12 February 2009

Plenary Room GEOMATICA

9:00 a.m. – 10:00 a.m.	<b>Central Master Conference of the Convention</b>
10:00 a.m. – 10:35 a.m.	<b>Central Master Conference “Scientific and Technological Challenges of combining Semantic and Grid”</b> Oscar Corcho, Profesor, Polytechnic University of Madrid, Spain
10:35 a.m. – 11:10 a.m.	<b>Master Conference “State of the Art in Accurate Agriculture”</b> Rodrigo Ortega Blu, Chile
11:10 a.m. – 11:45 a.m.	<b>Master Conference “The Earth Observation Programme of the European Space Agency, in support of Geomatics”</b> Mauricio Fea- Francisco Sarti, European Space Agency, Italy
11:45 a.m. – 12:20 m.	<b>Master Conference “Recent technological advancements and research trends in photogrammetry and remote sensing”</b> Emmanuel Baltsavias, Institute of Geodesy and Photogrammetry, Swiss Federal Institute of Technology Zurich (ETH Zurich) Wolfgang Pauli
12:20 p.m. – 1:00 p.m.	<b>Master Conference “Regional Centre of Space Sciences and Technology for Latin America and Caribbean-CRECTEALC”</b> Tania María Saucen, Chairperson, Education Committee of SELPER International, Brazil
1:00 p.m. – 2:00 p.m.	LUNCH
2:00 p.m. – 3:00 p.m.	Panel Discussion
3:00 p.m. – 4:00 p.m.	Panel Discussion
4:00 p.m. – 5:00 p.m.	<b>Closing Ceremony GEOMATICA 2009</b>

**GEOMATICA 2009**

**Seminar on  
MARINE SPATIAL DATA INFRASTRUCTURES (MSDI)  
La Havana, Cuba, 9 February 2009**

**Draft Programme**

**Chair: Capt Robert WARD ([Robert.Ward@ihb.mc](mailto:Robert.Ward@ihb.mc)), International Hydrographic Bureau, Monaco**

0845 **OPENING** [Col Eloy ALUM Ortiz ([onhg@enet.cu](mailto:onhg@enet.cu)), Director, Oficina Nacional de Hidrografia y Geodesia, Cuba]

0855 **PURPOSE OF THE SEMINAR, AIM AND EXPECTATIONS** (Chair)

**GENERAL – GLOBAL INITIATIVES**

- 0905
- Marine Spatial Data Infrastructures: Why, what and how?  
Dr Mike OSBORNE ([mike.osborne@seazone.com](mailto:mike.osborne@seazone.com)), SeaZone, United Kingdom
  - The IHO Marine Spatial Data Infrastructures Working Group (MSDIWG):  
Outcomes and proposals to the 4<sup>th</sup> Extraordinary International Hydrographic  
0925 Conference (Monaco, June 2009)  
Mr John PEPPER ([John.Pepper@UKHO.gov.uk](mailto:John.Pepper@UKHO.gov.uk)), United Kingdom  
Hydrographic Office, Chair MSDIWG
  - The IHO Geospatial Information Infrastructure Registry: A key element to  
0945 building MSDIs  
Mr. Barrie GREENSLADE ([Barrie.Greenslade@ukho.gov.uk](mailto:Barrie.Greenslade@ukho.gov.uk)), United Kingdom  
Hydrographic Office
  - MSDI – An IHO Perspective: Data, products, standards and policies  
1005 Ing en chef Michel HUET ([mhuet@ihb.mc](mailto:mhuet@ihb.mc)), IHB, Monaco

1025 Coffee Break

1045 open discussion / conclusion / recommendations

**REGIONAL / NATIONAL INITIATIVES**

- 1100
- Assessing SDI in the Caribbean  
Dr Tatiana DELGADO ([tatiana@geocuba.cu](mailto:tatiana@geocuba.cu)), Oficina Nacional de Hidrografia y Geodesia (ONHG), Cuba
  - The Caribbean Marine Atlas  
1120 Dr Lorna INNIS ([linniss206@gmail.com](mailto:linniss206@gmail.com)), Coastal Zone Management Unit,  
Barbados
  - Implementation of the EU INSPIRE Directive  
1140 Dr Alessandro ANNONI ([alessandro.annoni@jrc.it](mailto:alessandro.annoni@jrc.it)), Joint Research Centre  
Institute for Environment and Sustainability, Italy

- 1200 • UK Digital National Framework – Atlantis  
Mr John PEPPER ([John.Pepper@UKHO.gov.uk](mailto:John.Pepper@UKHO.gov.uk)), United Kingdom  
Hydrographic Office
- 1220 • UK Marine Environmental Data and Information Network [MEDIN]  
Dr David COTTON ([dcott@bodc.ac.uk](mailto:dcott@bodc.ac.uk)), British Oceanographic Data Centre  
(BODC), United Kingdom
- 1240 open discussion / conclusion / recommendations
- 1255 Lunch

### LAND-SEA INTEGRATION – VARIOUS ISSUES

- 1400 • Solutions for Land-Sea Interoperability  
Mr Mike OSBORNE ([mike.osborne@seazone.com](mailto:mike.osborne@seazone.com)), SeaZone, United Kingdom
- 1420 • The Multipurpose Marine Cadastre (MMC): A Framework for Mapping the  
Outer Continental Shelf  
Mr David STEIN ([Dave.Stein@noaa.gov](mailto:Dave.Stein@noaa.gov)), National Oceanic and Atmospheric  
Administration (NOAA), USA
- 1440 • The ICA Commission on Marine Cartography: Its role in facilitating land-sea  
data integration in the frame of SDI development  
Capt Patricio CARRASCO ([pcarrasco@shoa.cl](mailto:pcarrasco@shoa.cl)), Servicio Hidrografico y  
Oceanografico de la Armada (SHOA), Chile
- 1500 • open discussion / conclusion / recommendations
- 1515 Coffee Break

### INVOLVEMENT OF INDUSTRY

- 1535 • MSDI - Hydrographic workflows and related standards  
Andrew HOGGARTH ([andrew.hoggarth@caris.com](mailto:andrew.hoggarth@caris.com)), CARIS
- 1555 • MSDI: GIS for a Blue Planet  
Rafael PONCE ([rponce@esri.com](mailto:rponce@esri.com)), ESRI
- 1615 • GIS, data management and presentation, as foundation of an MSDI  
Jeppesen (Name of speaker to be determined)
- 1635 • open discussion / conclusion / recommendations

1645 **CLOSING REMARKS** (Chair)

1650 **END OF SEMINAR**