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**CIRCULAR LETTER 43/2016**  
**09 September 2016**

**ICC 2017 - 28<sup>th</sup> INTERNATIONAL CARTOGRAPHIC CONFERENCE**  
**(Washington, DC, USA, 2-7 July 2017)**

Dear Hydrographer,

1. The 28<sup>th</sup> Conference of the International Cartographic Association (ICA), ICC 2017, will take place in Washington, DC, USA from 2 to 7 July 2017. ICC 2017 will be organized by the Cartography and Geographic Information Society (CAGIS). The Conference will include paper and poster presentations, meetings of the ICA commissions, an international cartographic exhibition and commercial exhibits.

2. It is a tradition that the IHO participates in the biennial ICA Conferences both through attendance by representatives from hydrographic offices and through exhibiting nautical charts. This has contributed to maintaining high visibility of the IHO among the world's cartographers. Cross-participation in the conferences organized by each organization is one of the activities identified in the Memorandum of Understanding between the IHO and ICA signed at the XVIII<sup>th</sup> International Hydrographic Conference in April 2012.

3. Many themes addressed by the Conference, shown in Annex A, are relevant to the work of the IHO and its activities, and several Member States will have already prepared displays for the Member States' Exhibition at the first session of the IHO Assembly in Monaco in April. Therefore, the Directing Committee invites Member States to consider participating in the technical sessions and cartographic exhibition at ICC 2017, in liaison with their national cartographic committee or equivalent, as appropriate. The relevant deadlines are the following:

**26 October 2016:** deadline for the submission of abstract and papers;

**1 December 2016 to 1 March 2017:** on-line registration for the cartographic exhibition

More details may be found on the ICC 2017 website ([www.icc2017.org](http://www.icc2017.org)).

4. The US Hydrographic Office (Office of Coast Survey / National Ocean Service) has informed the Directing Committee of its intention to organize in conjunction with the Conference a one-day event focusing on nautical cartography. This event is expected to take place on 7 July 2017. The Directing Committee will forward further details as and when available.

On behalf of the Directing Committee  
Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Gilles Bessero', is written over a light blue circular stamp.

Gilles BESSERO  
Director

**THEMES OF ICC 2017**

*Note: the themes that are considered of interest for the IHO are highlighted*

- T01 Visual analytics, geovisualization, and dynamic cartography.
- T02 Spatial analysis, geocomputation, modeling, and data mining.
- T03 Virtual reality, augmented reality, 3D mapping, and Geodesign.
- T04 Generalization, multi-resolution data, and multi-scale representation.
- T05 Thematic cartography and multivariate data mapping.
- T06 Bertin's "Sémiologie Graphique" at 50 years; semiology.
- T07 User studies; user experience and usability; user interface design.
- T08 Cognitive issues in map use and design.
- T09 Children and cartography.
- T10 Accessible cartography for people with disabilities.
- T11 Education and training in cartography and geospatial technologies.
- T12 Outreach, geospatial MOOCs, and sharing mapping methods beyond cartography.
- T13 Design of maps.
- T14 Arts and culture; spatial digital humanities.
- T15 History of cartography and historical cartography.
- T16 Digital issues in cartographic heritage; map and geoinformation curatorship.
- T17 Ubiquitous cartography and theoretical cartography.
- T18 Critical cartography; GIS and society.
- T19 Web cartography; map services and apps; GIS cloud computing.
- T20 Collaborative mapping, volunteered geographic information, and crowdsourcing.
- T21 Open source mapping and open geospatial data.
- T22 Location based services, geospatial prospecting, and privacy issues.
- T23 Intellectual property rights in mapping and geospatial data.
- T24 Management, workflows, and supply chains for map publishing and geospatial products.
- T25 Atlas cartography: advances in structure, design, and technology use.
- T26 Spatial semantics and ontologies; spatial data infrastructures; interoperability.
- T27 Quality of geospatial data, maps/charts; data integration, metadata, and standards.
- T28 Big data; sensor networks and remotely-sensed data for mapping; feature extraction from lidar.
- T29 Projections, coordinate systems, transformations, and conversions.
- T30 Topographic mapping; design and update of national mapping series.
- T31 Toponyms: place names as cultural heritage, place-name conflicts, toponymic field work and documentation.
- T32 Mountain cartography and terrain representations; recreation and orienteering maps.
- T33 Cadastral mapping; mapping for city management.
- T34 Digital Transportation Infrastructure: highly precise and continuously updated road models for autonomous vehicles.
- T35 Marine and aeronautical cartography, navigation charts and data, baselines, and sovereign zones.
- T36 Geospatial intelligence and military cartography.
- T37 Early warning, risk reduction, and crisis management using maps and geospatial information systems.
- T38 Sustainable development; adaptation and resiliency mapping.
- T39 Planetary, extrasolar, and celestial cartography.
- T40 Developments in intensively mapped domains: global change, soils, geology, agriculture, humanitarian programs, crime, facilities management, etc.