

REPORT on the activities of the ICA
COMMISSION ON CARTOGRAPHY IN EARLY WARNING AND CRISES MANAGEMENT (CEW&CM)
For the period 1 July 2011 to 30 August 2015

Chairperson: Prof Dr. Milan KONECNY (Czech republic)
Vice-Chair: Dr Christophe LIENERT (Switzerland)
Vice-Chair: Prof. LI Jing (P.R. of China)
Executive Committee liaison: Prof. LIU Yaolin



COMMISSION HISTORY

ICA was first between members of JBGIS who started to deal with the problem of usage spatial information in EW and CM. The topic was also incorporated into the 2005 Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the ICA. At the 13th ICA General Assembly, in ICC, La Coruna was agreed to establish a WG on EW and CM, which was approved in ICC, Moscow.

AIMS - During the period 2011- 2015 the Commission aimed to:

1. Provide leadership in the development of concepts, ontologisation and standardization for early warning, hazard, risk and vulnerability mapping.
2. Promote the cartographic use of remotely sensed and other geospatial data for EW and CM through scientific conferences, seminars and workshops.
3. Investigate psychological condition of end user given by their personal character and situation and psychological condition of rescued persons (with support of ubiquitous and adaptive mapping).
4. Foster quality mapping and cartographic modelling, including state-of-the-art visualization technologies, geospatial processing and publishing tools, for EW and CM through topic related publication activities.
5. Participate and contribute to global initiatives in EW and CM through the maintenance of a website, newsletters and social network channels.
6. Promote the development of dynamic and real-time cartographic visualization concepts and techniques for enhanced operational early warning activities through active collaboration with governmental authorities.
7. Establish and cultivate professional networks for exchange of information among stakeholders in the domains of crisis management and early warning.
8. Develop mechanisms of command and control systems integration as well as improve real-time data-centric intelligence based on field sensors for purposes of Crisis Management.
9. Develop mapping methodologies and technologies for EW and CM in children perspectives. Promote the process of teaching, understanding and using maps for EW and CM in children aspects.

MEETINGS - In the period of 2008-2011 Commission keeps structure of activities:

- Regular annual or bi-annual meetings (Novosibirsk, Albena),
- Activities initiated by commission and realized in cooperation with other organizations (mainly ISPRS, FIG, GEO, ISDE, Gi4DM, etc.),
- Participating in the World sound and influential organizations activities (Geospatial World Forum, high level EU projects, etc.),
- Cover by activities many parts of the World (North and South America, New Zealand, Australia, Russia)
- Organize special EW and CM conferences and workshops (China, Malaysia, Colombia, EU).

ACTIVITIES - All meetings have been accompanied by commission meetings with intention to inform potential members of commission about our activities and plans. Simplified overview of activities is done in two groups: commission original activities, and initiated by commission and realize in cooperation with sister organizations (structured according to location, datum, and commission representative):

- 2011, September 14-16, Split Croatia: 3rd Croatian NSDI and INSPIRE Day and the 7th Cartography and Geoinformation conference, M. Konecny
- 2012, April 18, Novosibirsk, Russia: The VIII. International Exhibition and Scientific Congress "InterExpo Geo-Siberia -2012, the International Conference Early Warning and Crises/Disaster Management: Strategy, Technology, Social and Economical Aspects. M. Konecny
- 2012, April 21, Amsterdam, The Netherlands: Geospatial World Forum, participation and speech in ICA session, M. Konecny
- 2012, Munich, Germany: The ESRI's German-speaking User Conference 2012, paper done by Ch. Lienert
- 2012, June 15, Beijing, China, First Opening meeting of EU-China Disaster Risk Management High level project, M. Konecny
- 2012, June 18-22, Albena, Bulgaria, 4th International Conference on Cartography and GIS and International Seminar of Early Warning and Crises Management, M.Konecny, Ch. Lienert
- 2012, July 2-4, Aix en Provence, France European kick-off EU-China Disaster Risk Management project, M. Konecny
- 2012, July 14-17, Hamburg, Germany, the 10th International Conference 2012 on Hydro-Informatics; paper done by Ch. Lienert

- 2012, March 1st, Sofia, Bulgaria, EU project OBSERVE and project CARAVAN; M. Konecny
- 2012, October 19-21, Cambridge, England; Workshop of Earthquakes without Frontiers; paper done by LI Jing
- 2012, November 27, Ljubljana, Slovenia, "Disaster Management and Remote Sensing Application" invited speech in University, LI Jing
- 2012, September 18-19, Almaty, Kazakhstan, the conference "Innovative Technologies for an Efficient Geospatial Management of Earth Resources"; Round Table: "STRATEGIES FOR EARLY WARNING and CRISES/DISASTER MANAGEMENT"; together with ICA, FIG, ISPRS, SSGA Novosibirsk, Russia, and East Kazakhstan State Technical University named after D. Serikbayev, Ust-Kamenogorsk, Kazakhstan. Keynote speech done by M. Konecny
- 2012, August 25-September 1st, ISPRS Congress Melbourne, Australia, special session on Disaster Management, in cooperation with ISPRS. M.Konecny, M. Konecny, T. Bandrova
- 2012, September 1-5, Wellington, New Zealand, session Digital Earth and Crises Management: with International Society on Digital Earth. M.Konecny
- 2012, November 24-25, Beijing, China, International Conference on Emergency Management; with CAG, M. Konecny and LI Jing
- 2012, November 27-30, The High Level FORUM and Workshop on Crises Management, M. Konecny and LI Jing
- 2012, December 13-14, Enschede, The Netherlands, The 8th International Conference on Geo-Information for Disaster Management, ICA VP Jan Menno Kraak and M. Konecny, invited for cooperation by Gi4DM
- 2013, February 6-8, Bogota, Colombia, CEGeoIC, H. and M. Kremers. Commission participated by paper in Proceedings of Bogota, by CODATA-Germany LNIS.
- 2013, April 25, Novosibirsk, Russia, The IX.InterExpo Geo-Siberia. The International Workshop on "The Risk and Emergency Management Cycle: How to Support it by Cartography, Geoinformatics, GPS and Remote Sensing?"; M. Konecny, V.S. Tikunov, G. Gartner
- 2013, May 22-23, Budapest, Hungary, The "Conference and Workshop for Building V4 Network Researching Spatial and Social Aspects of Disaster Management, ICA invited by Hungarian CASCADOSS Association, M.Konecny
- 2013, May, Lisbon and Coimbra, Portugal, Commission presentation, University of Nova Lisboa and University of Coimbra. M. Konecny
- 2013, June 20-23, Kaifeng, P.R. China, CPGIS, 21st Int. Conference on Geoinformatics, keynote paper M. Konecny
- 2013, August, Kuala Lumpur, Malaysia; The special seminar on EW Warning and CM, The JUPEM, papers presented by T. Bandrova and M.Konecny.
- 2013, August 30, Dresden, Germany; ICC, all day commission session and discussion
- 2013, November 19, Baden, Switzerland, Colloquium DGfK, keynote presented by Ch. Lienert
- 2013, December 3-5, Wuhan, P.R. China; ICA International Workshop Cartography and Geoinformatics in Early Warning and Crises Management: discovering the new potentials. Keynoted presented by VP of ICA Liu Yaolin, LI Jing and M. Konecny
- 2014, April 16-18, Novosibirsk, Russia; InterExpo Geo-Sibir-2014, Workshop on Early Warning and Disaster/Crisis Management in the Big Data Era; with Siberian State Academy of Geodesy (SSGA) in Novosibirsk, ISPRS, FIG, Gi4DM; ICA SG L. Zentai and M. Konecny.
- 2014, April 28, Istanbul, Turkey, InterGeo conference; M. Konecny.
- 2014, May 5-9, Geneva, Switzerland; Geospatial World Forum, M. Konecny,
- 2014, June 15-20, Riviera, Varna, Bulgaria; the 5th International Conference on Cartography and GIS, 5th EU seminar on EW and CM; T. Bandrova, M. Konecny, Ch. Lienert,
- 2014, July 7-9, Beijing, China; IRDR and CODATA events, BIG DATA Potentials in Early Warning and Crises Management. M. Konecny
- 2014, September 28-29, Beijing, China; EU-China Disaster Risk Management project of highest level, EU commissioner and Chinese government), M. Konecny.

SELECTED PUBLICATIONS (Books, Papers, Proceedings)

- **Konecny M., Zlatanova S., T. L. Bandrova (eds.): Geographic Information and Cartography for Risk and Crisis Management. Lecture Notes in Geoinformatics and Cartography. Heidelberg: Springer, 2010.**
- S. S. Dysljuk, A.G. Novitskaya (eds.): International Workshop on "Early Warning and Crises/Disaster and Emergency Management". 28- 29 April 2011. Novosibirsk: SSGA, Russian Federation, 2011.
- **M. Konecny et al: Dynamic Geovisualization in Crisis Management. Masaryk University, Brno, 2011 (in Czech).**
- **M. Konecny, Li Jing, E. Mulickova, P. Kubicek (eds.): Geoinformation Support for Flood Management in China and the Czech Republic. Brno: Masaryk University, 2011.**
- T. Bandrova, M. Konecny (Eds.) 4rd and 5th International Conference on Cartography and GIS, CD Proceedings, Albena, Riviera: University of Architecture, Civil Engineering and Geodesy, Bulgaria, 2012, 2014.
- **The Value of Geoinformation for Disaster and Risk Management (VALID). Copenhagen: JB GIS, 2013.**
- Wuhan CEW&CM Seminar Proceedings, December 2014. In Preparation.

WEBSITE

Currently in development.