

COMMISSION ON CARTOGRAPHY IN EARLY WARNING AND CRISIS MANAGEMENT

RESEARCH AGENDA



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 early warning and crisis management 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 early warning and crisis management through topic related publication activities.**
5. **Participate and contribute to global initiatives in early warning and crisis management 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&CM in children perspectives. Promote the process of teaching, understanding and using maps for EW&CM in children aspects.**

<http://icaci.org/commissions/>

COMMISSION CHAIR: MILAN KONECNY, CZ
COMMISSION DEPUTY CHAIRS:
CHRISTOPHE LIENERT, CH AND LI JING, P.R. CHINA
LIASON: LIU YAOLIN, P.R. CHINA



World Network of Permanent Activities:

Riviera/Nessebar/Albena, Bulgaria; Novosibirsk, Russia; AutoCarto, USA; Praha/Brno, Czech Republic; Wuhan/Beijing, P.R. China

Activities with sister organizations:

ISDE: Beijing, Wellington, Kuchin; IEAS: Beijing; FIG: Ust Kamenogorsk, Almaty, Ulanbator; China-EU Disaster Risk Management project of high level;

VALID project (participation but critical commission position)

Next activities:

December, 3-5 2013 Wuhan, P.R. China. International Workshop on Cartography and Geoinformatics in Early Warning and Crises Management: discovering the new potentials.

April, 16-18, 2014 Novosibirsk, Russia. Workshop as a part of Inter Expo Geo Siberia 2014. Early Warning and Crises Management in the BigData Era.

June 15-21, 2014 Riviera, Black Sea Resort, Bulgaria Seminar on Cartographics and Geoinformatics Aspects of Early Warning and Crises Management as a part of 5th Cartography and GIS conference.

Publications:

KONEČNÝ, M. et al. **Dynamic Geovisualization in Crises Management.** Brno: Masaryk university, 2011. 386 s. ISBN 978-80-210-5858-3. In Czech.

KONEČNÝ, M. - MULÍČKOVÁ, E. - KUBÍČEK, P. - LI, J. **Geoinformation Support for Flood Management in China and the Czech Republic.** Brno : Masarykova univerzita, 2011. 119 s. ISBN 978-80-210-5751-7.

BANDROVA, T. - ZLATANOVA S. - KONECNY, M. **Three-Dimensional Maps for Disaster Management.** ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., 1-4, 245-250, doi:10.5194/isprsannals-1-4-245-2012, 2012, <http://www.isprs-ann-photogramm-remote-sens-spatial-inf-sci.net/1-4/245/2012/isprsannals-1-4-245-2012.pdf>

KONEČNÝ, M. **Early Warning and Crises Management in the World and in European Union: development, results and the role of science and research.** In KONEČNÝ, M. a kol. Dynamická geovizualizace v krizovém managementu. Brno: Masarykova univerzita, 2011. s. 18-33, 386 s. ISBN 978-80-210-5858-3. In Czech.

KONEČNÝ, M. **Disaster Prevention and Reduction in China.** In Geoinformation Support for Flood Management in China and the Czech Republic. Brno : Masarykova univerzita, 2011. s. 112-119. ISBN 978-80-210-5751-7.

KONEČNÝ, M. **Early Warning and Crisis Management - European Union Agenda.** In Geoinformation Support for Flood Management in China and the Czech Republic, Konečný M., Kubíček P., Mulíčková E., Li J., eds. Brno : Masarykova univerzita, 2011. s. 108 -111. ISBN 978-80-210-5751-7.

KUBÍČEK, P. - MULÍČKOVÁ, E. - KONEČNÝ, M. - KUČEROVÁ, J. **Flood Management and Geoinformation Support within the Emergency Cycle (EU Example).** In Environmental Software Systems. Frameworks of eEnvironment. Chennai, India : Springer Heidelberg Dordrecht London New York, 2011, s. 77-86. IFIP Advances in Information and Communication Tec, ISBN 978-3-642-22284-9.

BANDROVA, T. - KONECNY, M. – ZHELEZOV, G. **4th International Conference on Cartography and GIS (Seminar with EU Cooperation on Early Warning and Crises Management),** Volume 2, Albena, 18-22 June, 2012, pp. 132, Bulgarian Cartographic Association ISBN: ISSN: 1314-0604.