



**ICA Commission on
Map Projections**

Report on activities of the ICA Commission on Map Projections

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ICA Commission on
Map Projections

Members of the ICA CoMP



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Terms of Reference 2011–2015

**Proposed by M. Lapaine, Chair
E. Lynn Usery, Vice Chair**

Approved by the ICA General Assembly, Paris, 2011

Followed by the Operational Plan 2011-2015



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Operational Plan 2011–2015

- 1) The Operational Plan has to acknowledge the Terms of Reference and will be used to set achievable targets for CoMP for a four year period.

CoMP web site was set up in 2011 and is maintained

<http://ica-proj.kartografija.hr>



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- 2) Promote and foster research on map projections, coordinate systems, transformations and conversions, and disseminate the outcomes at all CoMP meetings.**

**Expected result: an enhanced set of online bibliographic tools and web links on map projections, coordinate systems, transformations and conversions
– deadline ICC in Rio de Janeiro 2015**

ICA Map Projections Wiki - *NEW*



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3) Sessions and meetings – places and dates:

Albena, Bulgaria, June 18-22, 2012, CoMP session as a part of the 4th International Conference on Cartography and GIS

Columbus, Ohio, USA, September 16-18, 2012, AutoCarto2012, ICA special session on map projections

Vienna, Austria, November 19–23, 2012. "The influence of SOA on Map Production and GeoBusiness" organized by ICA Commission on Map Production and GeoBusiness

Dresden, Germany, August 24, 2013, ICA ICC



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3) Sessions and meetings – places and dates (Cont.):

Riviera, Bulgaria, June 19, 2014, 5th ICC&GIS

Pittsburgh, PA, USA, October 5, 2014, AutoCarto 2014

**Zagreb, Croatia, October 11, 2014, 10th Cartography and
Geoinformation International Conference**

**Corfu, Greece, May 2015, 10th Conference and Workshop on
Digital Technologies in Cartographic Heritage**

Rio de Janeiro, Brazil, August 2015, ICA ICC



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4) Promote the proper use of map projections at all levels of education.

1st task:

Prepare a publication on map projection choice.

In progress.

2nd task:

Prepare a chapter for a textbook on map projections as it was requested by ICA WG for the International Map Year.

Finished.

<http://internationalmapyear.org>



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International Map Year



ICA 2015-2016 ACI

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WE MAPS

INTERNATIONAL MAP YEAR 2015–2016

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- 5) **Study terminology on map projections and prepare the multilingual dictionary for this area of cartography.**

Continuation of the project initiated by the Commission in the previous period

ICA Map Projections Wiki - *NEW*



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6) Provide consultative support in relation to map projections when required.

The Commission on Map Projections carried out successfully the review process for abstracts/papers submitted for the ICC Dresden 2013, and other preparatory works for the Commission meeting prior to the conference, the speed presentation for the Conference, organizing chairs for Conference sessions and delivering the report on time

The same is expected for the Rio de Janeiro conference



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- 7) Last but not least – work for reaching the general aims conceived in the ICA Statutes taking into account the recommendations of the ICA Executive Committee.**

Collaboration with the Croatian Cartographic Society

- **ICA has two new interactive web maps. Produced in Winkel projection and replaced the old ones made in Mercator projection. The result is visible at the ICA website.**

Collaboration with the Bulgarian Cartographic Association

- **Conferences in Albena in 2012, Riviera 2014**

Collaboration with AutoCarto

- **Sessions in 2012, in 2014**



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7) Cont.

Collaboration with the Commission on Map Production and Geobusiness

- Meeting in Vienna in 2012
- **Chapter on map projections and the Internet (!?)**

Collaboration with the Commission on Planetary Cartography

- Chapter on map projections in our book

Collaboration with the ICA Working Group for the International Map Year

- Chapter on map projections in their book
- Designing the IMY logo



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NEW

ICA will launch the "International *Journal* of Cartography"
next year

The editor is William Cartwright, ICA past president



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Choosing a Map Projection

Editors: Miljenko Lapaine and E. Lynn Usery

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Foreword	
Chapter 1	
Which Map is Best? PROJECTIONS FOR WORLD MAPS Special Publication No 1 of the American Cartographic Association (slightly modified)	✓ ...
Chapter 2	
Choosing a World Map ATTRIBUTES, DISTORTIONS, CLASSES, ASPECTS Special Publication No 2 of the American Cartographic Association (slightly modified)	✓ ...
Chapter 3	
MATCHING THE MAP PROJECTION TO THE NEED Special Publication No 3 of the American Cartographic Association (slightly modified)	✓ ...



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Chapter 4	
Cartograms as Map Projections (Waldo Tobler)	✓ ...
Chapter 5	
Combining World Map Projections (Bernhard Jenny, Bojan Šavrič)	✓
Chapter 6	
Map Projections and the Internet (Markus Jobst)	?
Chapter 7	
Map Projections Decision Support Systems (Michael P. Finn, E. Lynn Usery, Laura N. Woodard and Kristina H. Yamamoto)	✓



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Chapter 8	
Basics of Geodesy for Cartography (Miljenko Lapaine)	✓ ...
Chapter 9	
Map Projections in Planetary Cartography (Henrik Hargitai, Jue Wang, Philip J. Stooke, Irina Karachevtseva, Akos Kereszturi, Mátyás Gede)	✓
Chapter 10	
Short History of Map Projections (Miljenko Lapaine)	✓ ...
Chapter 11	
Famous people and Map Projections (Miljenko Lapaine)	1/2

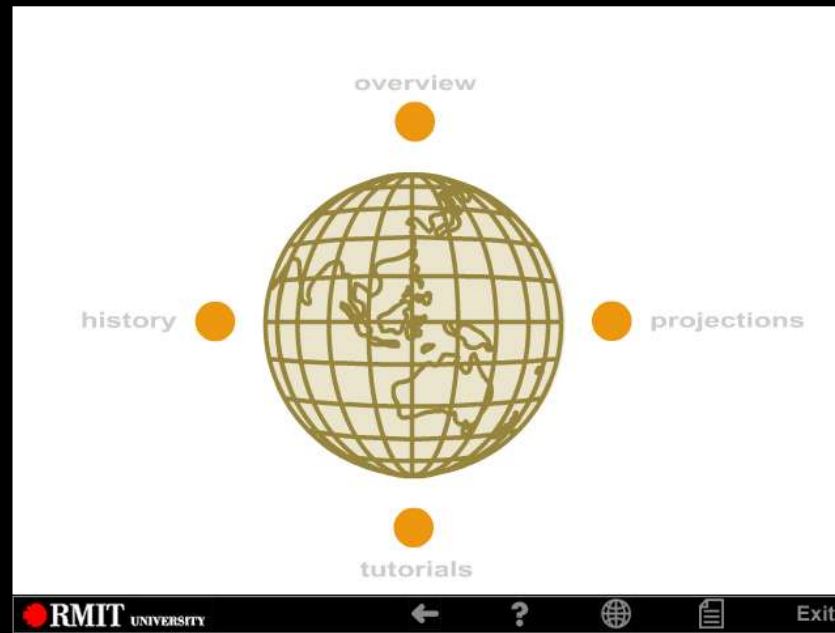


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Chapter 12	
A Guide to Selecting Map Projections for World and Hemisphere Maps (Bernhard Jenny, Bojan Šavrič, Nicholas D. Arnold, Brooke E. Marston, and Charles A. Preppernau)	✓
Chapter 13 Understanding a Map Projection - Interactive CD-ROM (William Cartwright, Rod Deakin)	X
Appendices	
A) Glossary of Map Projections (Nedjeljko Frančula, Miljenko Lapaine, E. Lynn Usery)	✓
B) Selected Bibliography (Miljenko Lapaine, E. Lynn Usery)	1/2
C) About the Contributors (Miljenko Lapaine, E. Lynn Usery)	...
Index	...



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Developable (secant) surfaces ?
Generally not correct





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1. In the theory and practice of map projections, *we do not need* anything that not corresponds to the actual mathematical projection methods.
2. *We do not need* definitions that are conceptual and that not correspond to the reality, or that are not correct.
3. Generally speaking, secant cone, cylinder, and plane *should not be used* in map projections, because they usually give a wrong impression of what is really happening.



**ICA Commission on
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Thank you for your attention

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