

AutoCarto 2022

WS4- Map Projections: Practical Selection and Use with Current Research Directions

**Workshop of the International Cartography Association
Commission on Map Projections**

Map projections are a critical part of any map design and creation. The plethora of existing projections allows a user to select an appropriate map projection to preserve the global characteristics that are critical to the map design. Unfortunately, map makers and users of geospatial information have little understanding of map projection concepts and are not able to select a correct map projection for the type and purpose of the map being created. This lack of knowledge results in a diminished effectiveness of the map's utility.

This workshop will focus on various topics related to map projections and includes: surveying the important challenges when selecting an appropriate map projection, exploring what research has revealed about peoples' cognitive understanding of map projections, summarizing the importance of map projection education, and reviewing software design that supports map makers in making good analytical and design decisions with map projections.

The workshop will include a brief tutorial on map projection concepts, selection, and use. Next, a panel discussion will explore cognitive issues related to map projections. A review of map projection software that supports spatial decision making will follow. Then, the workshop will conclude with several presentations of current research and events across the map projection community.

Prior to the meeting we encourage prospective attendees/participants to examine the agenda and guidelines at the Commission on Map Projections web site, <https://ica-proj.kartografija.hr/> .

The workshop is open to everyone attending AutoCarto 2022.

Sponsor: ICA Commission on Map Projections

Lead organizer: Sarah Battersby(sbattersby@tableau.com), Tableau Research / Salesforce, Inc.

Co-organizer: Fritz Kessler (fck2@psu.edu), Pennsylvania State University

Delivery mode of workshop: In-person

Length of workshop: 3 hours

Computers: Participants do not need a computer

Draft AgendU

FKHÁ ÁFHÁ

V[~] d | ãá Á Á: ã: ÁS^{^••} | ^ | ÁBÁU ã ã@Óã[^] | • à ^ ÁK

∇ Uç[^] | çã, Á -Á ã Á | [b & cã } Á& [] &] • Ê[^] | ^ & cã } Áã á Á • ^

∇ Ù[^] | ^ & cã * Á@ Áã @Á | [b & cã } Á | Á@ Á ã Á[^] • ã }

FKHÁ ÁGHÁ

Úã ^ | Áã á Áã & •• ã } ÁÉÓ [[| áã ã[^] á Á[^] ÁU ã ã@Óã[^] | • à ^ ÁBÁU ã: Á
S^{^••} | ^ | ÊÁ ã ^ | ã • ÁÓÖ

∇ Ô [*] ãã[^] Áã á Áã] | ^ { ^ } cãã } Á& @ã | ^ } * ^ • Á

∇ U] ^ } Áã & •• ã } Á -Á ã Á | [b & cã } • Ê& [] &] • Ê[^] | ^ á • Êã á Á • ^

GKHÁ ÁGK í Á { ÁÓ: ^ ã

GK í Á Á KKHÁ { ÁU: ^ • ^ } cãã } •

➤ GK í Á ÁKH í Á {

TBD

➤ KH í Á ÁKH í Á {

The new horizontal reference frame NATRF2022

➤ HÈ í Á Á KKHÁ { ÁU] ^ } Áã & •• ã } ÊÁ | ã Ê]