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EOCap4Africa

5c Remote Sensing Data: Creating Scientific Maps



INES Ruhengeri
Institute of Applied Sciences



Creating Scientific Maps



Maps

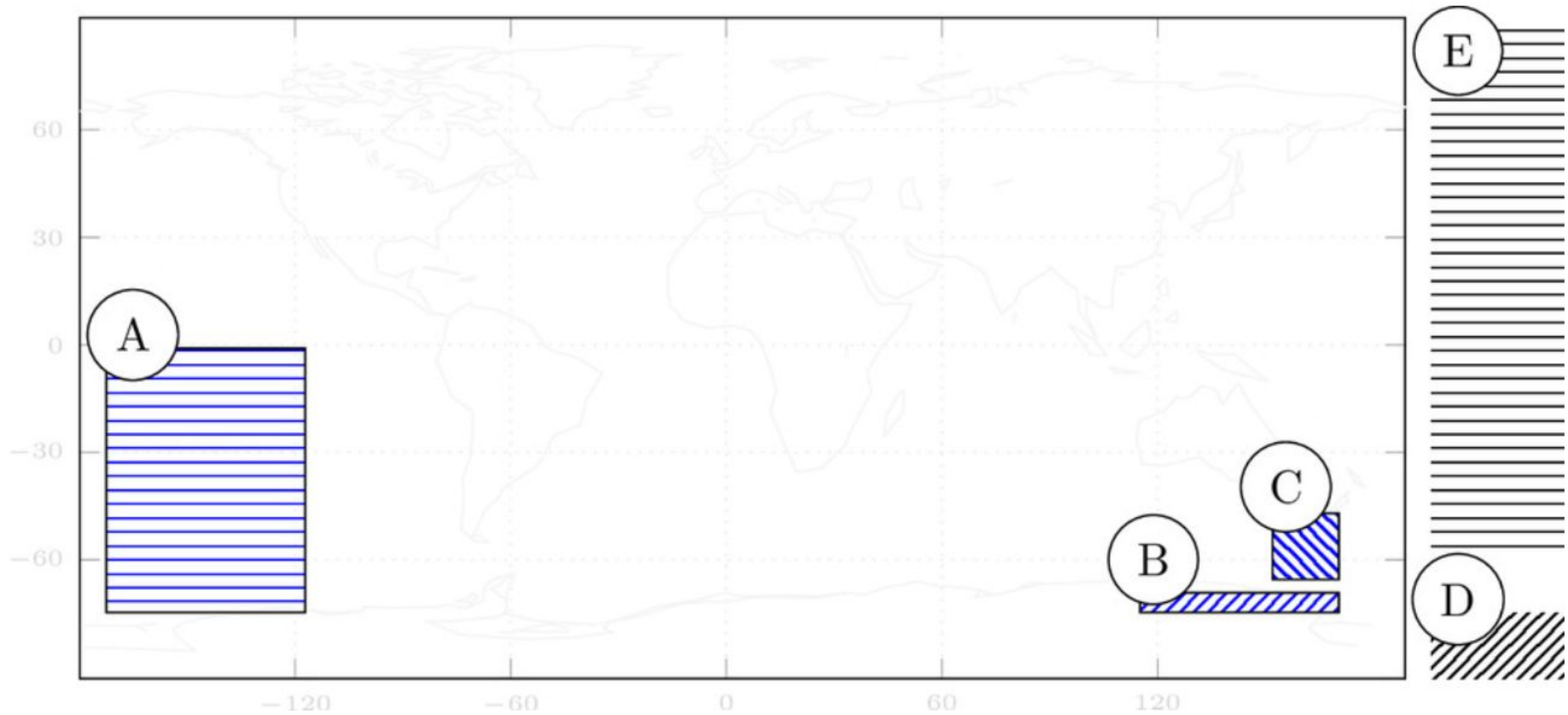
- Maps for what? What broad type of maps do exist?
 - Field work maps
 - Maps of final results
- Both serve a different purpose and hence have to be designed differently



Maps – Purpose and implications

- Informative (study area and results)
- Not introducing any distortions
- Convey necessary information
- Communicate spatial results
- All needed details but focused on main message
- Design depends on aim (for yourself, for field work or for external presentations)

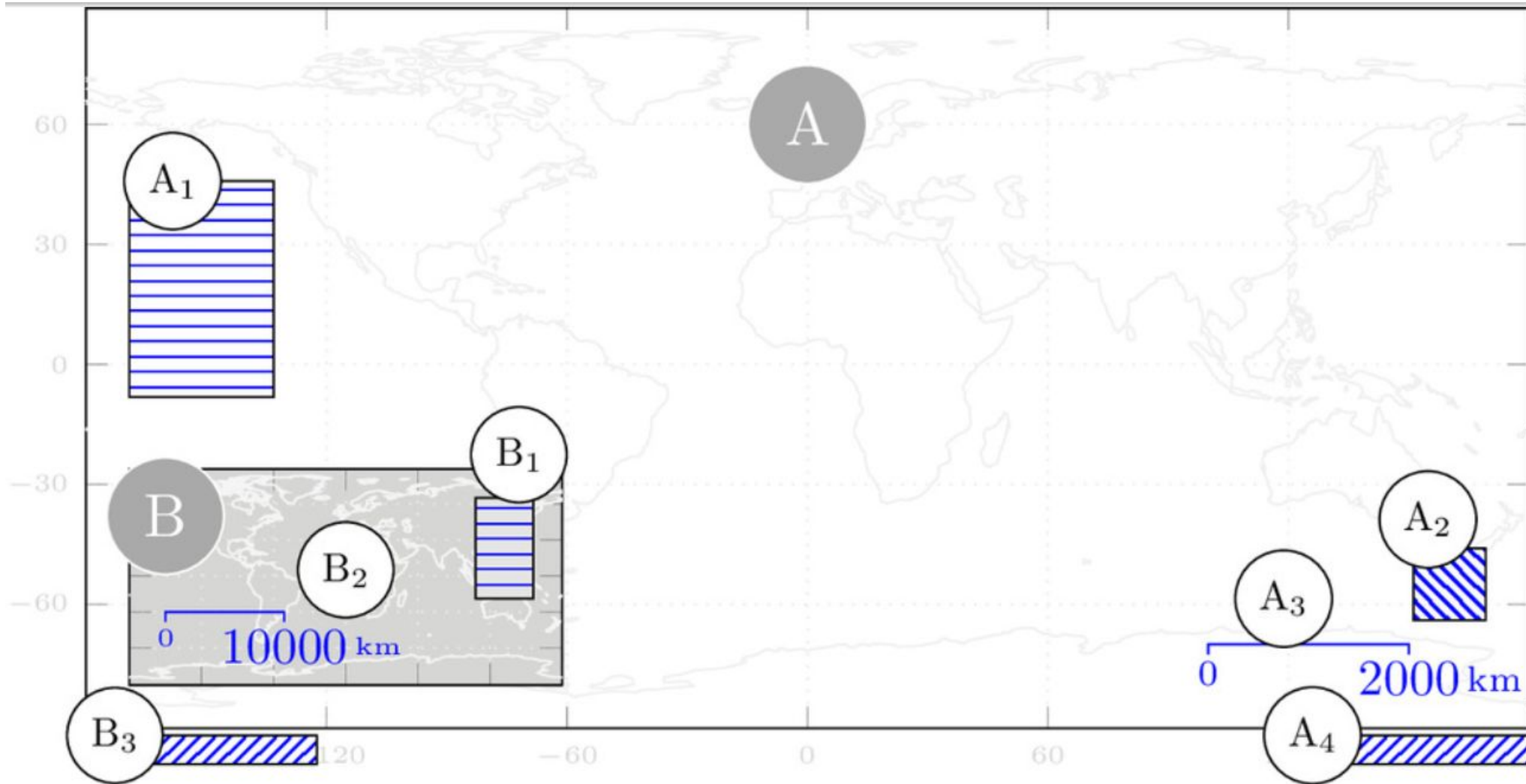
Creating Maps



A: legend, B: scale bar, C: north arrow, E: explanations, logo, D: creator etc.

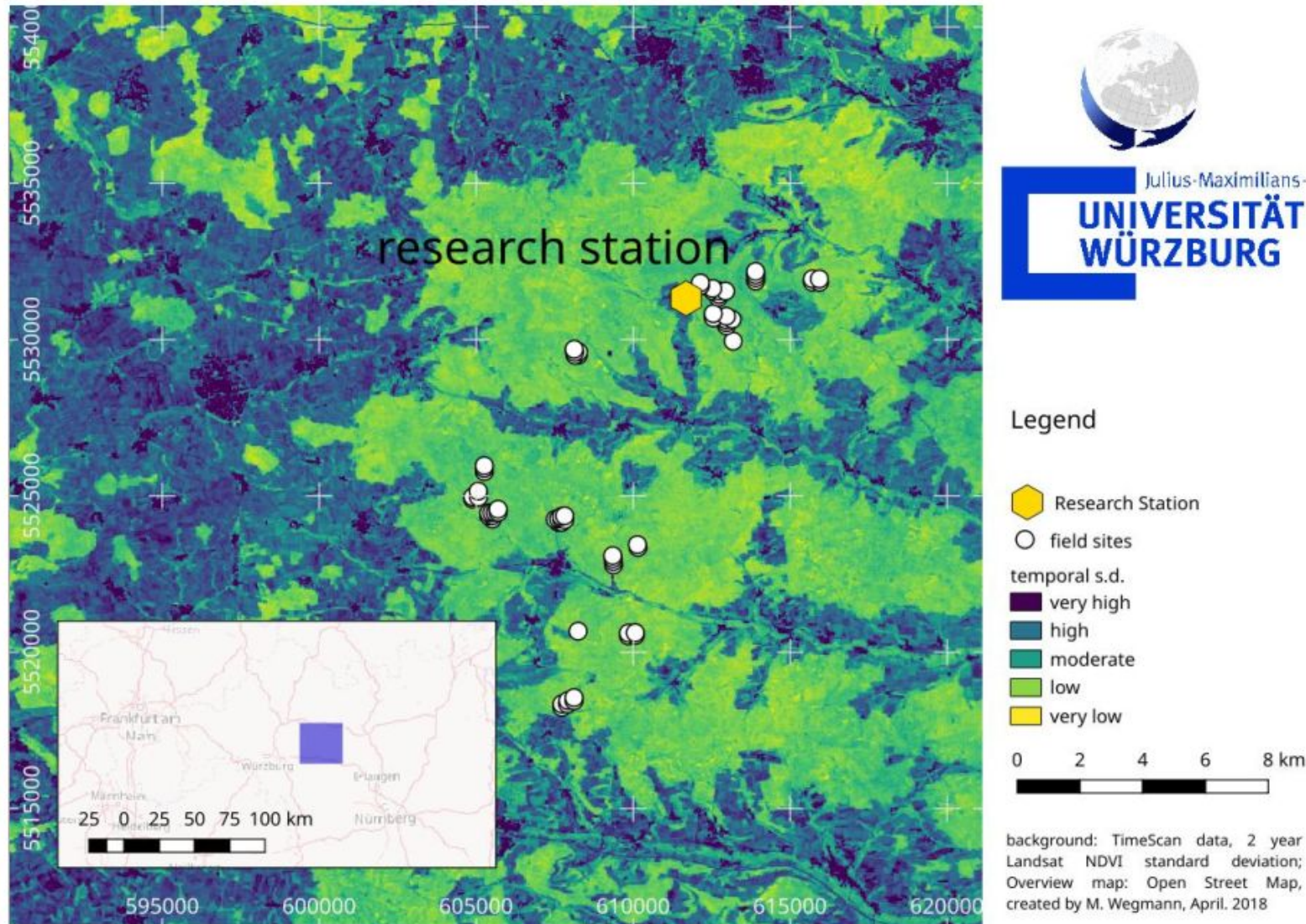


Creating Maps



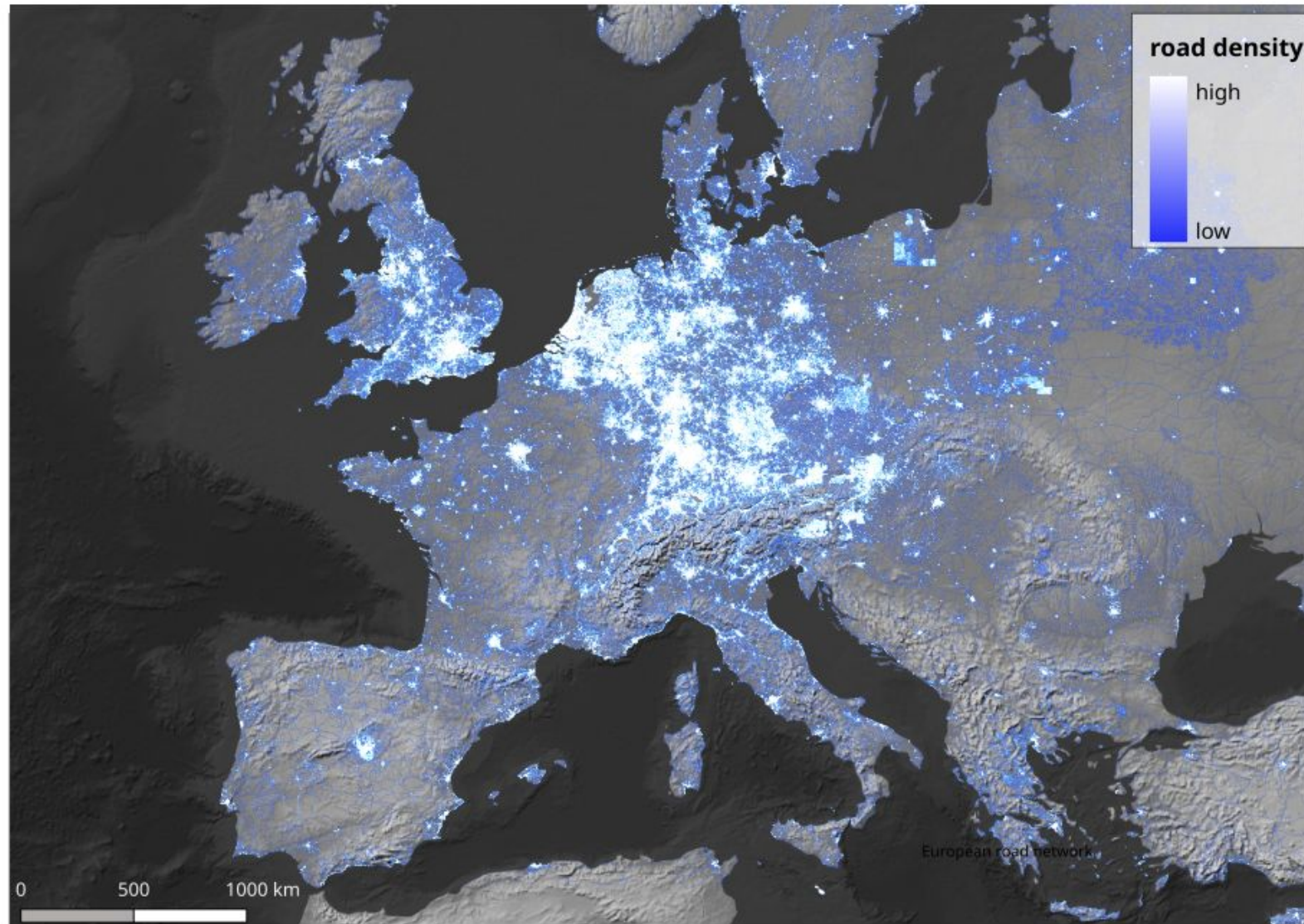
A: main map, B: overview map, A/B₁: legend, B₂/A₃: scale bar, A₂: north arrow, B₃/B₄:

Creating Maps



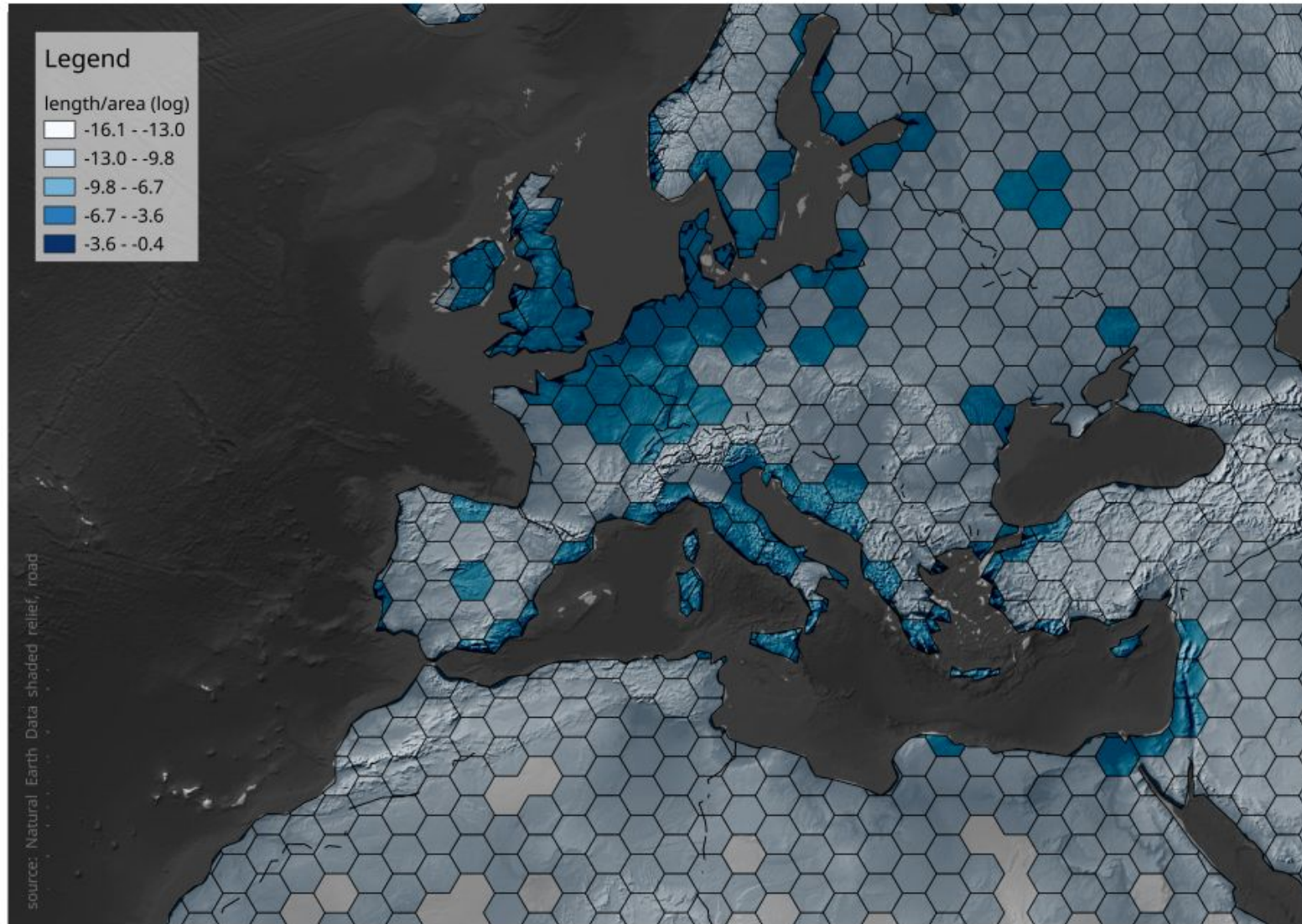


Creating Maps



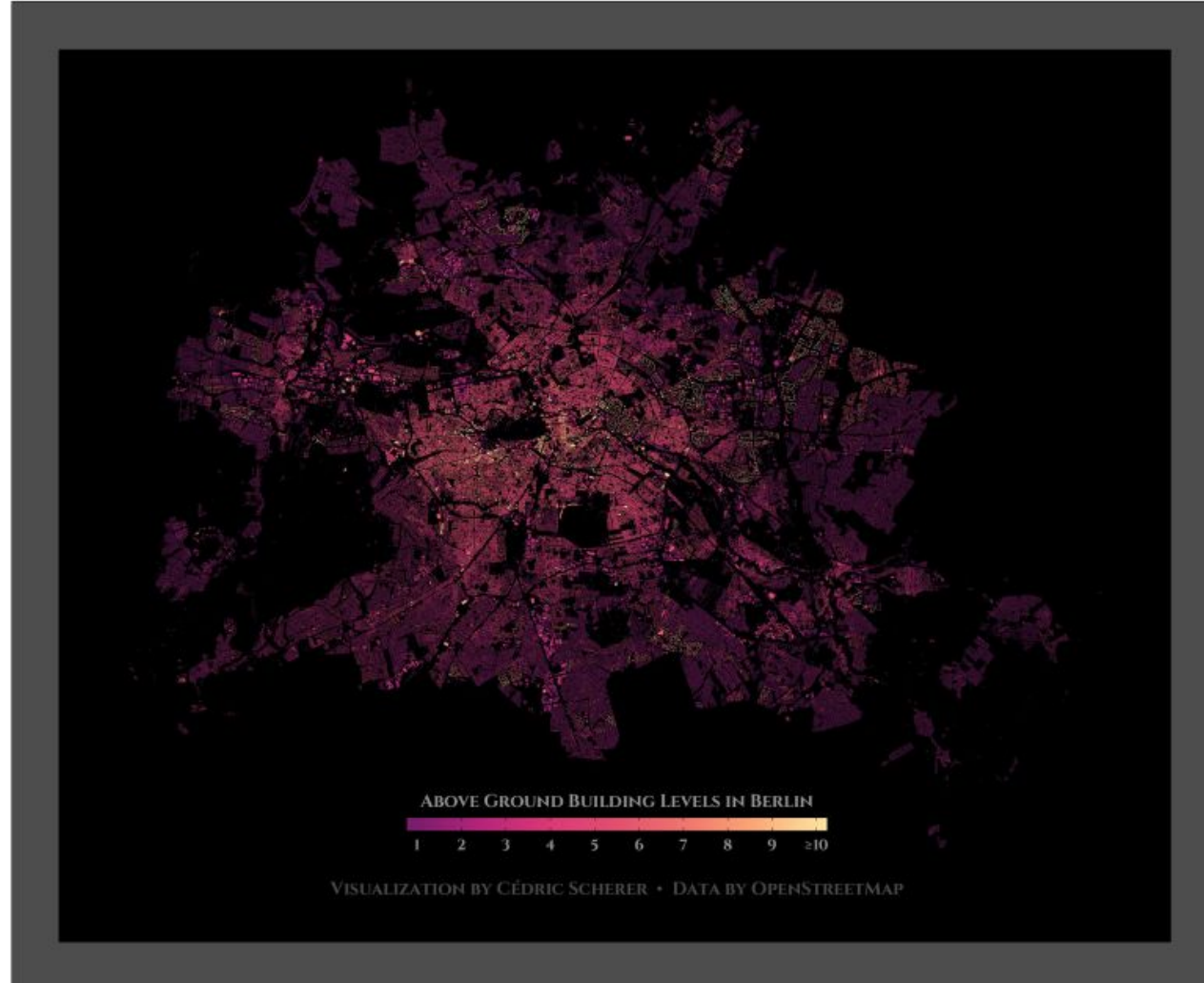


Creating Maps





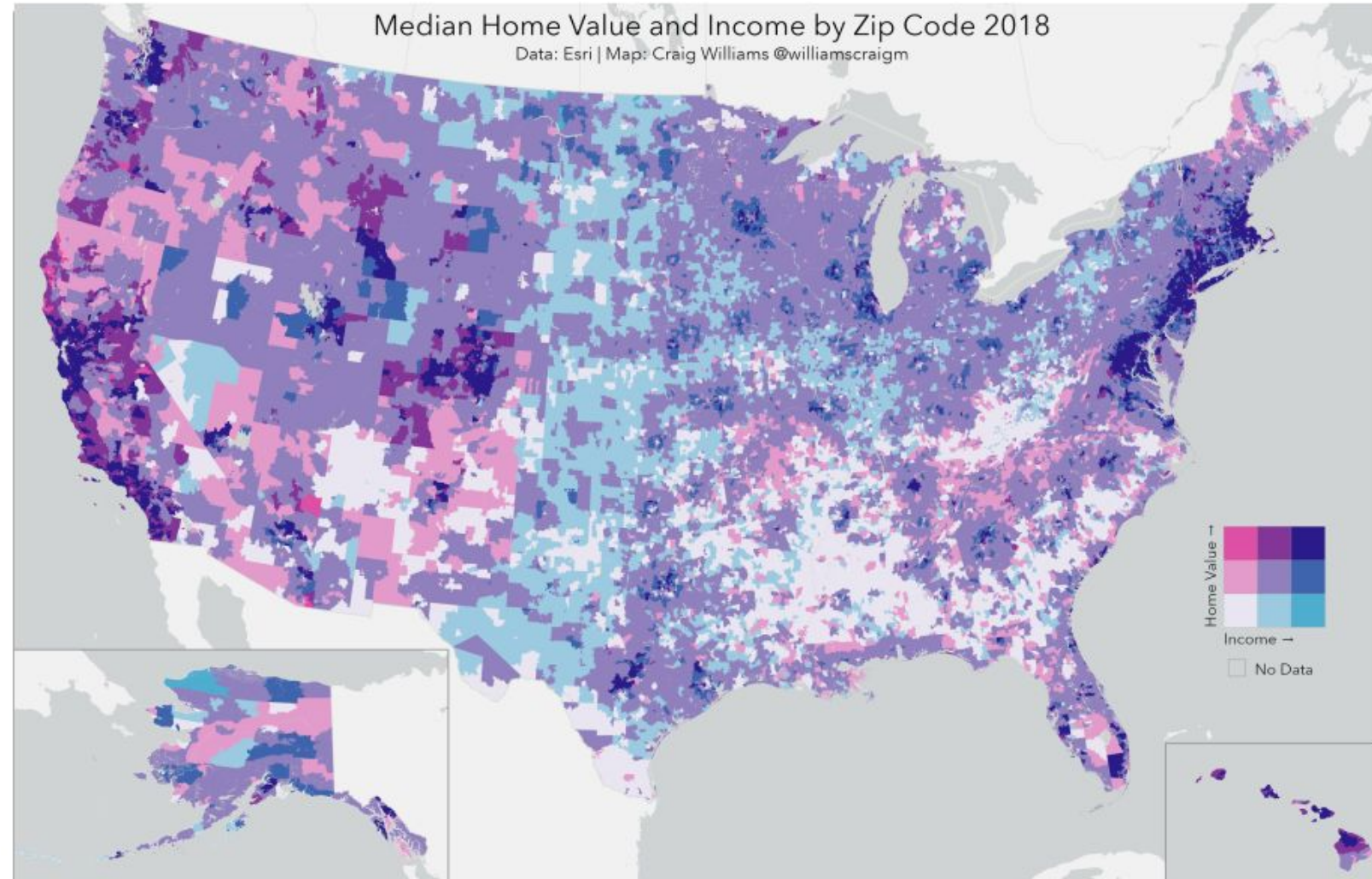
Browse Maps by others for Inspiration



Cedric Scherer
<https://cedricscherer.netlife.com/>



Browse Maps by others for Inspiration



<https://twitter.com/hashtag/30DayMapChallenge>



Maps and Projection



<https://thetruesize.com/>



Maps Checklist

- North Arrow
- Scale bar
- Coordinates (and system)
- Legend
- Further information such as author, sources, RGB band combination etc.
- Everything that is need to understand the map



Links

- Maps with a message
scalar.usc.edu/works/graphics-for-conservation/obfuscation?path=maps-with-a-message
- Creating maps in QGIS
http://www.qgistutorials.com/en/docs/making_a_map.html
- QGIS maps
<https://qgis.lrg/en/site/about/screenshots.html>
- QGIS map composer manual
https://docs.qgis.org/testing/en/docs/user_manual/print_composer/index.html

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Thank you for your attention!

Dr. Insa Otte and colleagues

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