

## Accessible remote sensing of water Burggraaff, O.

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## Propositions accompanying the thesis

## Accessible remote sensing of water

- 1. Consumer cameras, including smartphone cameras, can perform professional-grade spectroradiometry when using RAW data. (Chapters 3 and 4)
- 2. The iSPEX 2 add-on enables accurate spectropolarimetry using smartphone cameras. (Chapter 6)
- 3. Colour blindness significantly increases the uncertainty on Forel-Ule colour measurements for a significant fraction of users. (*Chapter 2*)
- 4. Spectral convolution of hyperspectral reflectance is often performed incorrectly, causing significant systematic errors. (*Chapter 5*)
- 5. Vague terms like *water quality* should be replaced with specific quantities like constituent concentrations and inherent optical properties.
- 6. To ensure reproducibility and facilitate novel research, data should be published in full, including raw data and calibration materials.
- 7. For successful citizen science, the citizens should come first and the science will follow.
- 8. A small systematic error is more interesting than a large random error.
- 9. Methodological research is just as scientific as applied research.
- 10. The best way to gain new insights into one's own field of research is to study seemingly unrelated fields.
- 11. Predatory publishing is the logical end result of modern academic culture.
- 12. There is little difference between mechanical engineering and magic.

Olivier Burggraaff Leiden, August 2022