

Coastal Science for Sea Turtle Conservation

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Propositions

accompanying the dissertation

Coastal Science for Sea Turtle Conservation

by

Jakob Cornelis CHRISTIAANSE

1. The response of the beach groundwater table is the single most important process in assessing nest flooding. (*this dissertation*)
2. Using the bathtub approach to assess sea level rise vulnerability of nesting beaches does more harm than good. (*this dissertation*)
3. There are many unused, yet suitable beaches for sea turtles to nest—they just need to find their way there. (*this dissertation*)
4. Remote sensing and deep learning are the future of coastal monitoring and modeling, and will replace most field measurements and models, respectively.
5. The best way to mitigate climate change is to rebuild Earth's biodiversity. For that, we will have to return a lot of what we call *our land*.
6. Rebuilding Earth's biodiversity requires more interdisciplinary action and less single-discipline publications.
7. Real interdisciplinary research requires a level playing field among the disciplines involved (e.g., two PhDs collaborating, rather than a PhD receiving input from a professor).
8. All non-personal data underlying scientific publications should be openly accessible.
9. Scientists often simplify things so the world will be more like they want it to be. (Adapted from *Surely You're Joking, Mr. Feynman*, by Richard Feynman)
10. In the age of social media-empowered autocrats, exposing fake news is becoming one of the most important responsibilities of scientists.
11. Healthy and affordable lunch stimulates happy and productive researchers—something to which TU Delft is evidently oblivious.

These propositions are regarded as opposable and defensible, and have been approved as such by the (co)promoters prof. dr. ir. A. J. H. M. Reniers, prof. dr. ir. S. G. J. Aarninkhof, and dr. ing. J. A. Á. Antolínez.