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AUTOMATED COURSE PLOTTING BASED ON AN ELECTRONIC NAUTICAL CHART

Short description:

Our aim with this research is to reach a proof of concept for digitizing and automating the course-plotting process done manually by mariners.

A desired result could be a polyline, a recommended area surface, a combination of both, or some other form.

Besides an Electronic Navigational Chart cover for the entire course, it depends on various other factors, such as the guide to port entry or local regulations, as well as vessel dimensions, purpose, and other characteristics, and maybe more to be discovered at the first steps.

Research Partner

This thesis is supervised in partnership with dr Christos Kastrisios of the Center for Coastal and Ocean Mapping/Joint Hydrographic Center (CCOM/JHC). This was founded in 1999 with two main objectives—to develop tools to advance ocean mapping and hydrography, and to train the next generation of hydrographers and ocean mappers. The JHC is a formal cooperative partnership between the University of New Hampshire and the National Oceanic and Atmospheric Administration (NOAA)

[<https://ccom.unh.edu/user/ckastrisios>]