

Proposal

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From the requirements, I would be able to assist on Model Tuning, Model Validation, Data Accessibility, Data Analysis, and possibly GIS interface.

I proposal that I mostly work on anything requiring UTide. I would also like to be programming coordinator, making sure that no one is rewriting code that exist. This would require people to inform me as to the code they are writing and the purpose of that code. This could also come in the form of a Github page, that I could maintain. This would also help us realize where we currently are in the project, allowing us to know what needs to be done and what is already done.

Essentially, be the gap between students and Karsten/Thomas, which would allow the students to have constant and instant communication about any questions.

Most of the theory for validation I think will come from tidal constituents. Python is my preferred method of producing all of these requirements. Fortran would be a second go to if need be. In python, a standard list of used libraries would be: Pandas, netCDF4, numpy, scipy, matplotlib. From those, most everything can be done for this project (except for GIS, which would need more thought if we are doing that).

Timeline would need to be discussed once we have a more detailed role definition for everyone, and which specific project everyone is working on. If multiple people are working on one project, then what in that project each individual is doing.

I would like to finish UTide in it's entirety, and spruce it up a bit.