Ecological clustering of the Red Sea and parallel 1D-ecological simulations

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Abstract

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1. Introduction

3D ecological models are expensive to run. Can we divide the Red Sea into regions and have 1D models running in each of them in parallel?

In this article we cluster the Red Sea in 3 different eco-regions using automatic unsupervised learning algorithms. We then run an assimilative 1D ecological model on each of the region and analyze the results.

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2. Data

3. Model and Assimilation

4. Results

5. Conclusion

Acknowledgment

The research reported in this publication was supported by King Abdullah University of Science and Technology (KAUST).

6. Bibliography