

## Challenges of forecasting surface currents

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Accurate prediction of surface currents can be immensely useful to a wide range of user communities: from search and rescue, to ship routing, to field oceanographers. However, accuracy of such prediction often lags user's expectations. This presentation reviews challenges associated with accurate forecasting of surface currents under different oceanographic conditions. Limitations of the existing observational datasets, ocean models, assimilation algorithms, and ocean forcing data sets are presented.