

Drew Gustafson, B.A.

Program Manager, RouteWatch

EXPERTISE

Oceanographic investigation and current forecasting, based on interpretations of *in situ* and remotely-sensed data sources as well as numerical model output. Computer programming, particularly as it relates to real-time oceanographic data collection, analysis, and visualization. Vessel route analysis and voyage planning, regarding climatologically significant ocean current features and their influences on planned vessel routes. Vessel route optimization analyses, utilizing outputs from numerical ocean circulation models.

QUALIFICATION SUMMARY

- More than 2 years of experience in physical oceanography
- Greater than 5 years of experience in MATLAB and Python programmatic data analysis and graphical user interface development
- Developer for automated data processing systems
- Lead programmer of autonomous system for data collection and processing
- Experienced in effective ocean data acquisition and utilization, providing accurate and timely oceanographic forecasts
- Ability to analyze numerical model outputs to provide routing recommendations for vessels to best utilize ocean currents
- Experience with discussing strategies with clients for hazardous weather avoidance, based on recent model outputs and forecasts
- Ability to summarize complex oceanographic relationships and processes in client-facing reports

WORK EXPERIENCE

2017 – Present Woods Hole Group, Inc., RouteWatch Program Manager
2015 – 2017 Horizon Marine, Inc., Physical Oceanographer
Spring 2014 Sea Education Association, Deck Hand, Junior Oceanographic Technician



Education

2015 – Bachelor of Arts
Earth and Oceanographic
Science
Bowdoin College

Publications & Presentations

4

PUBLICATIONS & PRESENTATIONS

Srinivasan, A., Gustafson, D., and Sharma, N. 2018. A Multi-resolution Probabilistic Ocean Current Forecasting System for Offshore Energy Operations. Offshore Technology Conference.

Sharma, N., Storie, J., Ivanov, L., Magnell, B., Leber, M., Gustafson, D., and Zimmerle, H. 2018. 2014-2017 Anomalous Loop Current Activity. Offshore Technology Conference, Metocean Advances.

Leber, M., Sharma, N., Storie, J., Gustafson, D., and Zimmerle, H. 2018. The 2014 to 2017 Loop Current Aberrance: Analysis of In Situ and Satellite Data.

Cadwallader, M., Coholan, P., Gustafson, D., Riffe, C., Sharma, N., Storie, J., and Obenour, K. 2016. Currents Behaving Badly: Hard Lessons Learned in the Gulf of Mexico.