

Neha Groves, M.S., B.E.

*Team Leader – Metocean Services
 Senior Oceanographer*

EXPERTISE

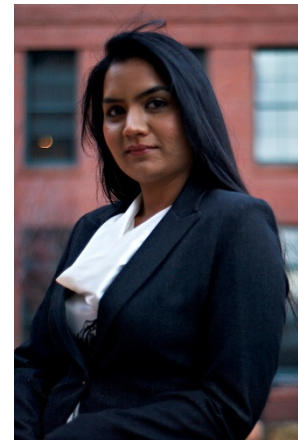
Oceanographic fluid dynamics, data analysis, operational consultation and forecasting of ocean current conditions, key expertise in oil and gas operations in deepwater Gulf of Mexico and South American Equatorial Margin, experience in global circulation studies, programming, research & development, marketing, and management.

QUALIFICATION SUMMARY

- 11+ years’ experience in physical oceanography and deepwater circulation
- Operational impact consultation of oceanographic features on offshore commercial activities and risk analyses
- Near-term and long-term forecasting of oceanographic feature movement and impact
- Working with academic institutions and government agencies on oceanographic studies and monitoring programs
- Extensive experience with drifting buoys
- Experience with real-time and historical data analysis using a range of current measurement technologies, including moored & drifting buoys, current meters, and Acoustic Doppler Current Profilers (stationary and vessel-mounted)
- Consultation on oceanographic survey plans
- Hydrographic model comparison and validation studies
- MATLAB programing for data processing, analysis, and visualization

WORK EXPERIENCE

- 2018-Present Woods Hole Group, Inc., Team Leader – Metocean Services & Senior Oceanographer
- 2015-2017 Horizon Marine, Inc., Vice President of Operations
- 2015 Horizon Marine, Inc., EddyWatch & SurveyWatch Program Manager
- 2012-2015 Horizon Marine, Inc., EddyWatch Program Manager
- 2010-2012 Horizon Marine, Inc., EddyWatch Operations Manager
- 2010 Horizon Marine, Inc., Physical Oceanographer and Team Leader
- 2007-2010 Horizon Marine, Inc., Physical Oceanographer and EddyWatch Analyst



Education

2007 – M.S.
 Physical Oceanography &
 Remote Sensing
Louisiana State University

2005 – B.E.
 Electronics &
 Telecommunications
*Maharashtra Institute of
 Technology Women
 Engineering College, Pune
 University*

Professional Affiliations

- Institute of Electrical and Electronic Engineers (IEEE)
- Marine Technology Society (MTS)

Publications & Presentations

18

PUBLICATIONS AND PRESENTATIONS

Perry, R., Leung, P.T., Petraitis, D., Mensi, B., Townsend, J., Crossland, S., Sharma, N., Storie, J., Zimmerle, H., Leber, M., Martin, K., Howden, S., Kirkpatrick, B., Gayanilo, F., Currier, B., Kim, H-S. 2018. "A Continuing Ocean Observing Collaboration to Improve Hurricane and Loop Current Forecasting and Modeling in the Gulf of Mexico – Insights from the 2017 and 2018 Seasons," *OCEANS Proceedings, Charleston, SC.*

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

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, Houston, TX.*

Leber, M.J., Sharma, N., Storie, J.S., Gustafson, D.E., Zimmerle, H.M. 2018. "The 2014 to 2017 Loop Current Aberrance: Analysis of In Situ and Satellite Data," *Ocean Sciences Meeting Proceedings (Poster), Portland, OR.*

Sharma, N., Storie, J.S., Obenour, K.M., Leber, M.J., Srinivasan, A. 2016. "Loop Current Hyperactivity: Analysis of In Situ Measurements in the Gulf of Mexico," *Offshore Technology Conference Proceedings, Houston, TX.*

Cadwallader, M., Coholan, P., Gustafson, D., Riffe, C., Sharma, N., Storie, J., Obenour, K. 2016. "Currents Behaving Badly Hard Lessons Learned in the Gulf of Mexico," *Subsea Tieback Conference Proceedings, San Antonio, TX.*

Perry, R., Leung, P.T., McCall W., Martin, K., Vandermeulen, R., Sharma, N., Howden, S., Kim, H-S., Hervey, R., Kirkpatrick, B., Watson, S., Howard, M., Vogel, M., Satterlee, K., Brzuzy, L. 2015. "Ocean Observing Collaboration to Improve 2014 Hurricane Forecasting and Modeling in the Gulf of Mexico," *OCEANS Proceedings, Washington, DC.*

Perry, R., McCall W., Leung, P.T., Martin, K., Vandermeulen, R., Sharma, N., Watson, S., Howden, S., Kirkpatrick, B., Satterlee, K., Vogel, M., Brzuzy, L., Voparil, I., Raye, R., Abadie, R. 2015. "Autonomous Underwater Vehicle Collaborations to Improve Hurricane Forecasting and Environmental Monitoring in the Gulf of Mexico," *Offshore Technology Conference Proceedings, Houston, TX.*

Fratantoni, D.M., Gellers, A., and Sharma, N. 2014. "On the Oceanography of Brazil's Equatorial Margin: Hazardous Offshore Currents and Strategies for Mitigation," *Rio Oil & Gas Expo and Conference, Rio de Janeiro, Brazil.*

Sharma, N., Riffe, C., Coholan, P., Cadwallader, M., and Brickley, P. 2013. "How to Break an ADCP: Applications in Deepwater Operations," *ADCPs in Action Proceedings, San Diego, CA.*

Brickley, P., Srinivasan, A., Sharma, N., and Christensen, M. 2013. "Jet Streams of the Tropical Atlantic: Observing and Forecasting the North Brazil Current Retroflexion," *Offshore Technology Conference Proceedings, Houston, TX.*

PUBLICATIONS AND PRESENTATIONS (CONTINUED)

Brickley, P., Coholan, P., Sharma, N., and Cadwallader, M. 2011. "When Mother Nature Smiles – Multi-year Analysis of Currents at the Macondo Well Site," *Offshore Technology Conference Proceedings, Houston, TX*.

Schmidt, A., Brickley, P., Gangopadhyay, A., Cadwallader, M.L., Sharma, N., Nobre, C., Coholan, P., and Feeney, J. 2011. "A Feature Oriented Regional Modeling System for the North Brazil Current Rings Migration and Retroreflection," *Offshore Technology Conference Proceedings, Houston, TX*.

Brickley, P., Coholan, P., Sharma, N., and Cadwallader, M.L. 2011. "When Mother Nature Smiles – Multi-year Analysis of Currents at the Macondo Well Site," *Offshore Technology Conference Proceedings, Houston, TX*.

Sharma, N., Brickley, P., Owen, G., and Coholan, P. 2010. "Use of Air-Deployed Drogued Drifting Buoys in Oil Spill Tracking," *OCEANS Proceedings, Seattle, WA*.

Sharma, N., Anderson, S.P., Brickley, P., Nobre, C., and Cadwallader, M. L. 2009. "Quantifying the Seasonal and Interannual Variability of the Formation and Migration Pattern of North Brazil Current Rings," *OCEANS Proceedings, Biloxi, MS*.

Anderson, S.P. and Sharma, N. 2008. "Satellite-Tracked Drifter Measurements of Inertial Currents in the Gulf of Mexico," *CMTC Proceedings, Charleston, NC*.

Sharma, N. and D'Sa E. 2008. "Assessment and Analysis of QuikSCAT Vector Wind Products for the Gulf of Mexico: A Long-Term and Hurricane Analysis," *Sensors*, 8(3):1927-1949.