

Rob I. Smith, BSc (Hons)

Business Development Manager/Senior Oceanographer

EXPERTISE

International business and project management for the operational metocean and marine environmental measurement, monitoring and consultancy services in estuarine, coastal and deepwater environments. Technical specialization in: baseline measurement programs; real-time systems and consultancy services to derive design and operating criteria.



QUALIFICATION SUMMARY

- Scientific specialization and technical expertise in physical oceanography for offshore coastal and estuarine areas
- Technical knowledge of Gulf of Mexico, Atlantic and Caribbean metocean conditions
- Project management of multi-disciplinary metocean and marine environmental studies for coastal and offshore areas worldwide.
- Field expertise conducting metocean measurement programs in remote and harsh environments from nearshore to deep ocean
- Developing metocean and environmental work scopes to achieve specific objectives in a range of geographical and marine environments
- Preparation of technical and financial proposals for undertaking metocean measurement and data assessment programs.
- Business development and technical sales in new and established markets and geographical areas to meet short and long term objectives
- Undertaking technical review and QA/QC of reports, papers and presentations
- Provision of strategic metocean guidance to key clients on metocean data needs and regulatory requirements
- Excellent verbal and written communication skills

Education

1987 – BSc (Hons)
 Oceanography
 University College Swansea

Licenses and Registrations

N/A

Professional Affiliations

- Society for Underwater Technology
 - Marine Technology Society
 - The Oceanography Society

Publications & Presentations

4

WORK EXPERIENCE

2016-Present	Senior Oceanographer/Business Development Manager, Woods Hole Group, Bourne(MA, USA)
2013-2016	President/Managing Director, Fugro GEOS Inc, Houston (TX, USA)
2005-2013	Vice President, Fugro GEOS Inc, Houston (TX, USA)
2001-2005	Sales and Marketing Manager, Fugro GEOS Inc, Houston (TX, USA)
1995-2001	Principal Oceanographer, Fugro GEOS Ltd, Dubai (UAE) and Swindon (UK)
1990-1995	Senior Marine Scientist, Wimpey Environmental Ltd, Swindon (UK)
1987-1990	Marine Scientist, Wimpol Ltd, Swindon (UK)
1987-1987	Marine Scientist, UK Ministry of Defense/Swansea University, Swansea (UK)

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KEY PROJECTS

RPSEA Hi-Res Environmental Data for Enhanced UDW Operations Safety/Project Director

A complex dual objective US Government project. The first objective was to assess the physical mechanisms that cause periods of elevated current velocities in the US Gulf of Mexico, with technical partners Florida State University and WeatherPredict. This part of the project was specifically aimed at covering, the passage of tropical revolving storms over areas of relatively higher sea surface temperature (e.g., loop current or associated eddy) and the potential to cause elevated currents in the boundary layers of the water column, near bottom and near surface. The second objective included the development of the airborne Remote Ocean Current Imaging System (ROCIS), with technical partners Areté Associates. The requirement was for an operational tool to provide near-synoptic current measurement support for offshore operations over large areas and enhanced visualization and understanding of sub-mesoscale features associated with the Gulf of Mexico circulation. The project director role included preparation of the scope of work and commercial documentation, project and subcontracting set up, and the ongoing assessment of compliance with contractual and QHSSE requirements, data quality and report quality. The program led to the successful development of ROCIS and subsequent use to support Gulf of Mexico offshore operations.

Suriname Metocean Measurement Program/Project Director

Development of the scope of work, commercial package, contractual and logistical basis for a three-Client baseline metocean measurement program offshore Suriname to provide data in support of the planning and execution of oil and gas exploration operations. The work included the deployment of three full water column oceanographic mooring systems for twelve months with regular servicing and maintenance. The project director role included the ongoing assessment of compliance with contractual and QHSSE requirements, data quality and report quality. Overall data return was in excess of 95%.

Rig Based Real-time Current Monitoring/Project Manager

Rig-based, real-time current monitoring services using combinations of Acoustic Doppler Current Profilers conducted in the UK North West approaches, Gulf of Mexico and Brazil to provide data in support of drilling operations and for future use to determine design and operational criteria.

Sakhalin Island LNG Metocean Baseline Study/Project Manager

A large scale one year coastal measurement project in Sakhalin, Russia. The work involved comprehensive meteorological and oceanographic measurements including measurement of sea ice at a remote harsh environment site. Management responsibilities included the control of complex contracts, subcontracts and logistics associated with the work in Russia.

Yemen LNG Metocean Baseline Study/Project Manager and Field Party Chief

A large scale one year coastal measurement project in Yemen. The scope of work included comprehensive meteorological, oceanographic and marine environmental measurements at a highly remote location to categorize circulation patterns for cooling waters and vessel navigation. Management responsibilities included the control of the prime contract, local subcontracts and local and international logistics.

KEY PROJECTS (CONTINUED)

South Atlantic Metocean Measurement Program/Project Manager and Field Party Chief

Set up of a major oceanographic data collection program in the South Atlantic to collect current, wave and meteorological data in support of oil and gas exploration, taking the project from inception through the tender and award stages, to the initial mobilization and completion.

Oman LNG Metocean Baseline Study/Field Party Chief

A large scale one year coastal measurement project in Yemen. The scope of work included comprehensive meteorological, oceanographic and marine environmental measurements at a highly remote location to categorize circulation patterns for cooling waters and vessel navigation. Management responsibilities included the control of the prime contract, local subcontracts and local and international logistics.

Water Services Company Seconded Consultant/Project Manager and Consultant

An eighteen-month secondment to a Water Services client to provide metocean and marine environmental consultancy services in the preparation of supporting documentation for submission with waste water discharge applications for new treatment and disposal schemes designed to ensure that EU bathing water standards and UK regulatory requirements were met and the marine environment protected. The work included assessment and collation of measured and numerical model data, preparation of detailed and comprehensive reports and negotiation of requirements for the proposed schemes.

Metocean and Marine Environmental Studies for EU Beach Standards Compliance/Project Manager and Field Party Chief

Several studies in the South West of England (Taw-Torridge Estuaries, Torbay, Salcombe, Dartmouth, Teignmouth, North Cornwall) to provide baseline measurement of metocean conditions, assess sewage dispersion characteristics and bathing water quality. The studies provided comprehensive assessments of coastal oceanographic, meteorology and environmental status of coastal and estuarine systems that were used to design and develop enhanced effluent disposal schemes to ensure bathing water compliance with EU standards.

Sediment Analysis Laboratory/Laboratory Manager

The set-up, equipping and operation of a temporary (12 month) sediment analysis laboratory to process a broad range of samples relating to coastal engineering development programs in terms of sediment physical properties. The project also involved the creation of data logging systems and data analysis and presentation software to provide a full sample to report service.

PUBLICATIONS & PRESENTATIONS

Anderson, S., S. Zuckerman, J. van Smirren, R. Smith, R. 2015. Airborne Ocean Surface Current Measurements for Offshore Applications. 25956-MS OTC Conference Paper, Houston.

Smith, R. 2016. Remote Ocean Current Imaging System. Oceanology International Conference, Marine Technology and Services Sector Role in the Blue Economy Session, London

Presenter: Metocean Hazards and Deepwater Drilling, Chevron/BP Deepwater Drill School, 2001-2016, Houston.

Presenter: Metocean Data Acquisition, Society for Underwater Technology Metocean Awareness Course, 2014 to Present, Houston.