



Robert A. Catalano, M.B.A., B.S.
Vice-President Science Operations

Expertise

Business and Project Management for physical oceanographic data acquisition systems, marine data acquisition instrumentation systems, along with hydrographic and marine geophysical data acquisition surveys.

Qualification Summary

- Current Vice-President, responsible for scientific operations. Overall responsibilities for all ongoing operations
- Lead for all internal and external HSE requirements
- More than 30 years of broad based experience in the fields of marine instrumentation, coastal and physical oceanographic data collection, and project management
- Project Management of domestic and international marine instrumentation & physical oceanographic and marine geophysical data acquisition programs

Education

M.B.A., Business Management –
1996 Northeastern
University
B.S., Geology – 1976 University
of Connecticut

Professional Affiliations

Society of Exploration
Geophysicists
European Association of
Geophysicists
Marine Technology Society

Work Experience

2002 - Present	Woods Hole Group, Inc.
1987 - 2001	Benthos, Inc.
1986 - 1987	Harvey Lynch
1983 - 1986	Brown & Root Hydrographic Office
1976 - 1983	Ocean Surveys, Inc.

Key Projects

Met-Ocean Program, Colombia - Project Manager

Real-Time, 3M MetOcean Buoy design, fabrication, logistics, installation and client relationship. Project Management responsibilities for contract management, customer liaison, design, fabrication and delivery of this real time system to provide winds, waves, currents and meteorological information to the client in real time thru secure accessed web pages and project financial performance.

Met-Ocean Program, Brazil - Project Manager

Real-Time, 3M MetOcean Buoy design, fabrication, logistics, installation and client relationship. Project Management responsibilities for contract management, customer liaison, design, fabrication and delivery of this real time system to provide winds, waves, currents, CTD and meteorological information to the client in real time thru secure accessed web pages and project financial performance.

Met-Ocean Installation, Trinidad - Project Manager

Multiple oceanographic instruments configured for a permanent installation on an offshore production platform to monitor wind, waves, and water column currents for real time display and web-access throughout clients worldwide LAN. Project Management responsibilities for contract management, customer liaison, and financial performance.

Sub-Surface Mooring Program, Colombia - Project Manager

3 deep water moorings were deployed for one year in a new offshore oil and gas potential to understand the physical oceanographic properties and the impact on future drilling and production activities. Project Management responsibilities for contract management, customer liaison, and financial performance. On-site representation during field operations.

Sub-Surface Mooring Program, Brazil - Project Manager

15 deep water moorings were deployed for four years in new offshore oil and gas fields to understand the physical oceanographic properties and the impact on future drilling and production activities. Project Management responsibilities for contract management, technical coordination and lead mooring design, customer liaison, and financial performance. On-site representation during field operations.

Offshore Wind Power - Project Manager

A multi-year scientific data acquisition tower was erected on an offshore US site. Woods Hole Group designed, installed, and acquired real time data from the site. The sensor package included multi-level wind speed and direction, multi-level temperature and barometric pressure, and sub-sea wave height and direction along with current speed and direction. All data was synthesized on site, stored locally, and also real time transmitted to Woods Hole Group for processing and data reporting. Project Management tasks included all customer liaison, contract negotiation; data report review, and technical oversight of the entire scientific package.

Real Time Meteorological & Oceanographic Data Systems Oil Drilling & Production Rigs - Project Manager

Multiple Projects for the design and implementation of real time, deep-water data acquisition systems on domestic and international based oil drilling operations. Dual Acoustic Doppler Current Profiling instruments along with wind speed and direction data were synthesized into a central data information management system onboard the drilling rig. Project Management included equipment specification control documentation, contract negotiations; technical specifications for purchased equipment, system documentation, logistical support, and customer relations.

Key Projects (continued)

Real Time Met-Ocean Data Program – NOAA PORTS - Program Manager

Multi-year, multi site contracts to oversee the operation and maintenance of the NOAA PORTS operations in Chesapeake Bay, Delaware River & Bay, New York/New Jersey, Lake Charles, LA, and Narragansett Bay. The NOAA PORTS (Physical Oceanographic Real Time System) acquires and disseminates wind, wave, current, tidal, conductivity, and temperature parameters to public websites. The Woods Hole Group, as prime O&M contractor is responsible for the installation and daily operational status of the stations in these regions. Program and Project Management tasks included contractual negotiations, contract compliance, day to day management of service tasks for call out work, and emergency service call out work to maintain system operational status. Oversight of 2 satellite office facilities and direction for WHG personnel responsible for maintenance of the installations.

The installation of the Jacksonville PORTS was a milestone for NOAA and its partner, Jacksonville Marine Exchange. WHG installed this system which is the second largest PORTS in the US and largest privately funded PORTS installation. This project included new advances in Project Management to use 3D Model Concepts in Phases to present construction plans to the end user and stakeholders. Use of the 3D Process greatly reduced time and cost to completion. The design and installation process were completed months ahead of schedule.

Mobil Drilling Unit - Met-Ocean Data Acquisition Program - Project Manager

Multiple International Oil Company installations of Acoustic Doppler Current Profiler (ADCP) instrumentation along with meteorological instrumentation to monitor current induced stresses on oil exploratory and production drilling operations in deep water. Projects were based in Australia, Brazil, and West Africa. Project Management responsibilities included proposal presentation, contract negotiations, contract compliance for all issues including health and safety, and logistical support for daily operations.

International Remediation Programs - Kingdom of Saudi Arabia - Project Manager

Site investigations and data compilation for a major environmentally impacted region in the Kingdom of Saudi Arabia for remediation and restoration of the environment. Spilled oil from the 1991 Gulf War and the damage to the desert ecosystems associated with the military operations in the deserts of the northeastern portion of the Kingdom of Saudi Arabia have created a lingering health and environmental problem. Three major environments were involved: coastal shorelines, terrestrial deserts, and sub-tidal regions. Project Management responsibilities included in-country contract implementation with sub-contractors, in-country logistical support, detailed RTK GPS Geodetic Surveying, contract compliance, overall logistic support, and reporting/documentation tasks.

USACE – Rhode Island Regional Sediment Management Study – Logistics and Field Operations Manager.

Under this IDIQ contract, a major data collection Task Order was contracted in the support of the Regional Sediment Management (RSM) Study for the State of Rhode Island. The overall purpose of the study is to develop both local and regional sediment budgets along the coast of Rhode Island and to develop a management plan for the south coast of Rhode Island, incorporating ecosystem concerns, sediment management, and sea level rise considerations. The physical data collected as part of this program will be used to develop, calibrate, and validate a comprehensive set of hydrodynamic, wave, sediment transport, and water quality models that are intended to help guide the Rhode Island (RI) RSM Study.

The field measurement program for the Rhode Island RSM Study consists of long-term (yearlong) observations of a wide variety of physical processes, including:

Key Projects (continued)

- twelve (12) real-time tide stations deployed throughout numerous coastal inlets and ponds along the RI shoreline
- three (3) real-time wave and current profile (ADCP) stations located offshore of the RI coastline in approximately 30-35 feet of water
- meteorological station
- four (4) in-situ horizontal current profilers observing current/sediment flux at coastal inlets
- optical backscatter observations
- acoustic doppler current profile (ADCP) surveys
- Data are provided via real-time webcasting and are available on the Internet.

Surface and Sub-Surface Mooring Program, Azerbaijan, Caspian Sea - Project Manager

Six moorings were deployed for a one year period in new offshore gas fields to understand the physical oceanographic properties and the impact on future drilling, production, and pipeline route modeling activities. Moorings included bottom mounted, taut wire designs and surface expression designs. On Shore a detailed meteorological stations was installed and maintained for the contract duration. The project instrumentation incorporated comparison instrumentation to measure waves from a surface buoy and a sub-surface wave system. Project Management responsibilities for import/export of equipment and all in country logistic support, contract management, technical coordination and lead mooring design, customer liaison, and financial performance. On-site representation during all field operations.