

### Qualifications Summary

- Current Vice-President, responsible for scientific operations. Overall responsibilities for all ongoing operations
- More than 25 years of broad based experience in the fields of marine instrumentation, coastal and physical oceanographic data collection, and project management
- Vice-President of Operations at Benthos responsible for all manufacturing, quality, support engineering, safety, government security, and facilities
- Product Line Manager for acoustic and hydrophone products. Responsible for product line specific R&D, international and domestic marketing, and customer relations
- Assistant Operations Manager in charge of logistical support for 5 international offices and new business development for Gulf of Mexico geophysical high-resolution surveys
- Project Management of several long term domestic and international marine instrumentation & physical oceanographic and marine geophysical data acquisition programs

## ROBERT A. CATALANO, M.B.A., B.S.

Vice-President Science Operations

### Professional Affiliations

Society of Exploration Geophysicists  
European Association of Geophysicists  
Marine Technology Society

### Fields of 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.

### Higher Education

M.B.A., Northeastern University (1996)  
B.S. Geology, University of Connecticut (1976)

### Employment History

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 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

## **Key Projects (continued)**

performance. On-site representation during field operations.

### **Sub-Surface Mooring Program, Brasil - Project Manager**

15 deep water moorings were deployed for two 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, 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 System/International Oil Rig - Project Manager**

Woods Hole Group was responsible for the design and implementation of a real time, deep-water (5,000 ft) data acquisition system on a multi-platform spread for an international oil drilling operation. 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 specification control documentation, contract negotiations; technical specifications for purchased equipment, system documentation, logistical support, and customer relations.

### **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.

### **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

## **Key Projects (continued)**

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.

### **Pre-Construction Survey, Kuwait - Resident Project Manager**

A one-year environmental assessment study of the onshore geologic conditions and offshore oceanographic conditions to determine the optimal location of a new power plant. The study included geotechnical investigations and meteorological conditions on land, and near shore ocean circulation patterns studies to optimize the intake and discharge cooling water structures for the new power plant. Detailed bathymetric studies were performed as well as sediment transport studies.

### **Pre Construction Survey, Columbia, South America - Resident Project Manger**

A 9-month environmental assessment study with offshore geological and geophysical studies to determine the optimal location for new coal export terminal.

### **Site Survey, Egypt - Resident Project Manager**

A three-month project to determine the cost to renovate an existing Egyptian Navy base as a new forward deployment base for US Forces. Detailed bathymetric studies, onshore site surveying, bathymetric and geophysical investigations to determine alternate routes of approach.