

## James D. Spilsbury, M.O., M.B.A., B.S.

Marine Technician

### EXPERTISE

Preparation, installation, and maintenance of real-time, long-term, and short-term oceanographic monitoring systems, including deep water moorings, mobile offshore drilling unit (MODU) based launch and recovery systems (LARS), coastal water level monitoring equipment, meteorological monitoring stations and Acoustic Doppler Current Profilers (ADCPs). Responsible for managing, planning, reporting, and customer correspondence on a number of projects, and regularly quality-control data for all stations in the New York/New Jersey Harbor, Narragansett Bay, New London, and New Haven PORTS systems and VDatum projects. Experience with computer programming, hardware installation, and electronics device troubleshooting.

### QUALIFICATION SUMMARY

- Experience with deployment, operation, maintenance, and recovery of real-time oceanographic and meteorological measurement systems
- Experience with calibration and maintenance of oceanographic and meteorological sensors
- Assembly, deployment, and recovery of current monitoring systems
- Experience in quality control and analysis of real-time oceanographic data
- Possesses strong writing, verbal communication, and organizational skills
- Experience with small boat handling and operations
- Software experience with Sutron XTerm, ProComm Plus, AceManager, Windesc, Translev, Sontek, RD Instruments, Nortek AquaPro, Campbell LoggerNet, In-Situ, Trimble, and Microsoft Office
- Computer hardware and electronic device troubleshooting

### WORK EXPERIENCE

2014-Present Marine Technician, Woods Hole Group, Inc.  
2012-2014 Marine Science Technician, Versar  
2011-2012 Data Analyst, Earth Resources Technology  
2010-2011 GIS Analyst, DeLorme  
2004-2010 Captain, Portland Discovery Land and Sea Tours



### Education

2018 – M.O.  
Oceanography  
*University of Rhode Island*  
2018 – M.B.A.  
Business Administration  
*University of Rhode Island*  
2010 – B.S.  
Marine Science  
*University of Maine*

### Licenses and Registrations

Merchant Mariner Credential  
for 100-ton Inland Captain's  
License

### Professional Affiliations

-HAZWOPER 40 Hour Training  
-Current CPR and First Aid  
Training  
-Offshore Water  
Survival/HUET  
-Signal Person and Rigger  
Training  
-SafeGulf/SafeLand  
-SEMS Awareness, HAZCOM,  
Fall Protection, LOTO, JSA

## KEY PROJECTS

### **National Oceanic and Atmospheric Administration, National Ocean Service, Center for Operational-Oceanographic Products and Services (NOAA/NOS/COOPS), Great Lakes VDatum Water Level Stations – Project Co-Lead/Marine Technician**

Management of station reconnaissance, installations, and removals for seasonal water level stations in the Great Lakes region in support of hydrographic and shoreline mapping and new release of the International Great Lakes Vertical Datum 2020. In charge of managing day-to-day operations, project timelines, budgeting, documentation, and final deliverables. Provide technical and field support for installations, removals, and emergency maintenance visits.

### **Offshore Met-Ocean Mooring and Buoy Deployment and Retrieval, Gulf of Mexico – Marine Technician**

Perform deck operations regarding the deployment, retrieval, and servicing of a multipart deep water three meter surface buoy mooring system equipped with a wide array of oceanographic and meteorological sensors. Operations encompass working with vessel A-frame, knuckle boom crane, trawl winch and tugger winch, manning of tag lines for safe and secure flotation deployment. Offshore deployment and recovery operations require the streaming and management of over one mile of mooring line, wire rope, and chains, and the management of nearly five tons of clump weight anchors. Assist in the breakdown and testing of all mooring components and electronic instrumentation for servicing and eventual redeployment operations.

### **Philadelphia Water Department, Measurements of Current Profile and Sediment Oxygen Demand in Select Tidal Reaches for the City of Philadelphia – Marine Technician**

Serve as an experienced marine technician, deck hand, for the deployment, recovery, system inspection, and maintenance of a long-term current monitoring contract utilizing 1.6 m metocean surface buoys and short duration current meter deployments. Aids in the deployment and recovery of bottom mounted instrument platforms fitted with a variety of oceanographic instrumentation and acoustic releases for recovery operations. Coordinate all operations between small vessels and barges utilizing a variety of winches, A-frames, davits, and cranes. Perform current meter calibrations, data recovery, and routine system inspections. Assist with survey data collection for short-term current meter deployments.

### **National Oceanic and Atmospheric Administration, National Ocean Service, Center for Operational-Oceanographic Products and Services (NOAA/NOS/COOPS), Physical Oceanographic Real-Time Systems (PORTS), Narragansett Bay & New York Harbor – Marine Technician**

Serve as PORTS technical lead for routine operation and maintenance of NOAA PORTS stations including the servicing, deployment and recovery, of trawl resistant bottom mount (TRBM) platforms. TRBM platforms are serviced using medium sized vessels require additional dive support, and weigh up to 1,000 lbs. TRBMs are connected to real time data management and communication systems onshore via subsea data cables. Coordination between operations vessels, divers, USCG, and harbor police is a critical aspect of achieving a successful deployment or recovery of the TRBMs. Technical support and reporting tasks, for all aspects field operation & maintenance activities and emergency service are regularly provided.

## KEY PROJECTS (CONTINUED)

### **Real-Time Oceanographic Measurement Systems: West Auriga, West Capricorn, West Vela, Q5000 Gulf of Mexico – Marine Technician**

Assisted as marine technician on Woods Hole Group offshore, rig based, oceanographic measurement launch and recovery systems (LARS). Woods Hole Group designed, installed, and maintains a number of real time current measurement systems on offshore drilling rigs, providing 1000 m current profiles in real-time to the vessel and to the National Data Buoy Center (NDBC). Data is collected via two ADCPs, one upward looking Teledyne RD Instruments WH300 and the other a downward looking Teledyne RD Instruments OO38 mounted on a rigid frame suspended from two electro-mechanical winch cables. An articulated A-frame supports the winch cables and sheave blocks. The system provides power and control signals to the instruments, collects and processes data, and provides real-time displays to operators over the on-board CCTV network.

### **NOAA/NOS/COOPS, Hurricane Sandy Station Improvements at Conimicut Light, Quonset Point, Bergen Point, and Brandywine water level and meteorological stations – Marine Technician**

Served as marine technician, providing assistance to Project Manager, Clinton Hare, to complete station upgrades at NOAA water level and meteorological stations damaged by Hurricane Sandy. Major maintenance activities included the repair of existing station infrastructure, the construction and installation of new storm hardened structural station components, the installation of new station equipment and sensors, and installation of new Microwave water level sensors.

### **NOAA/NOS/COOPS, Hurricane Sandy Station Improvements at The Narrows and Quonset Point current meter stations – Marine Technician**

Served as marine technician, providing assistance to Project Manager, Clinton Hare, to complete station upgrades at NOAA current meter stations damaged by Hurricane Sandy. Major maintenance activities included the repair of existing station infrastructure, the construction and installation of new storm hardened structural station components, and the deployment of new current meter instruments and equipment.

### **National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Chesapeake Bay Office, Chesapeake Bay Interpretive Buoy System (CBIBS) – Project Lead/Field Team Lead**

Served as project manager and lead field technician for the CBIBS buoy system, which was comprised of a 10 buoy network of AXYS 1.7 m WatchKeeper surface buoys moored throughout the Chesapeake Bay and surrounding areas. Was responsible for all activities regarding deployment, maintenance, and repairs to buoys, moorings, sensors, and buoy equipment. Managed the field responsibilities of other personnel and subcontractors working on the CBIBS system, calibration and repair of all sensors, inventory tracking and completion of maintenance logs. Coordinated small-medium boat/tender operations, research vessel operations loaded with deployment equipment for mooring operations, and performed daily monitoring and QA/QC for the system. Additionally, oversaw the deployment of short term coastal subsea, bottom mounted moorings systems for research applications. Bottom mounted moorings were equipped with acoustic releases and aluminum instrument housings.

## KEY PROJECTS (CONTINUED)

### **NOAA/NOS/COOPS, National Water Level Observation Network (NWLON), West Coast Stations (California, Oregon, and Washington) & Georgia VDatum – Data Analyst**

Served as data analyst on the Operational Engineering Team (OET) monitoring and maintaining tide stations belonging to the National Water Level Observation Network (NWLON). Reviewed field documentation and processed station metadata ensuring all data met CO-OPS specifications and requirements.

### **Vessel Operations, Portland Discovery Land and Sea Tours – Vessel Captain**

Oversaw operations and navigation of vessels up to 100 tons in a variety of marine conditions and situations (heavy seas, fog, inclement weather, etc.). Highly experienced with vessel maneuverability, docking, securing to facility property and handling lines.