

Eric J. Aronchick, B.S.

Oceanographic Field Technician

EXPERTISE

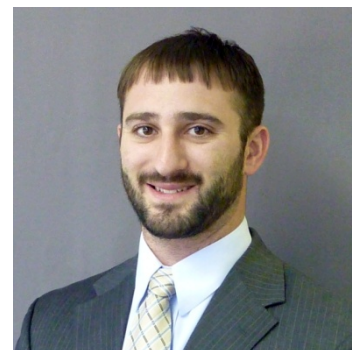
Experienced in conducting offshore shallow, mid, and deep water deployment and recovery operations of oceanographic instrumentation and equipment. Skilled in the mobilization and demobilization of offshore vessels and platforms for operational oceanographic use, including but not limited to: mooring deployment and recovery, towed sensor sampling/surveys, and launch and recovery systems (LARS). Proficient in the installation, maintenance, testing and troubleshooting of offshore real time oceanographic current measurement LARS deployed on mobile drilling units (MODUs). Well versed in the construction and installation of elevated platforms and structures for real-time monitoring of tidal changes and currents, as well as conducting routine and emergency maintenance, field testing, and replacement of oceanographic and meteorological equipment. Has performed and published multiple static GPS and geodetic leveling surveys adhering to second order, class one precise leveling techniques in accordance with NGS requirements and specifications.

QUALIFICATION SUMMARY

- Over 9 years of field experience operating in offshore and coastal environments servicing, installing, and operating oceanographic and meteorological sensors for real time data collection and dissemination.
- Party Chief – Deployment/recovery operations of offshore deep/shallow water mooring fixtures.
- Party Chief – Maintenance and servicing operations of Real Time Met-Ocean Mooring systems (RTMMs).
- Party Chief – Vessel mob and demob for offshore oceanographic operations.
- Party Chief – Mobilization, demobilization, maintenance, repair, and factory acceptance testing of MODU based oceanographic measurement systems.
- Project Management – Refurbishment, mobilization and installation of MODU based oceanographic measurement LARS.
- Project Management – Deepwater RTMM annual servicing campaign including all client communications, reporting, offshore recovery, deployment, and servicing operations.
- Experienced in the construction, installation, and removal of nearshore hydrographic and meteorological real time measurement stations.
- Deployment/recovery of towed sensors via standard “back-deck” operations.
- Collection of deep water sediment coring and water samples.

WORK EXPERIENCE

2013-Present	Oceanographic Field Technician, Woods Hole Group
2013	Hydrographic Technician, TerraSond Limited
2011-2012	Marine Field Technician, Air-Sea Systems
2010	Offshore Oceanographer, Tellus Applied Sciences



Education

2010 – B.S.
 Oceanography
Florida Institute of Technology

Licenses and Registrations

- T-BOSIET
- Open Water Survival/HUET
- Signal Person and Rigger Training
- SafeGulf/SafeLand
- PADI Open Water Dive Certified
- First Aid/CPR/AED
- SEMS Awareness, HAZCOM, Hearing Conservation
- Fall Protection, Lock Out-Tag Out/Job Safety Awareness

Professional Affiliations

- Marine Technology Society
- Society for Underwater Technology - SUT

Publications & Presentations

N/A

KEY PROJECTS

Deep Water MetOcean Mooring and Buoy Deployment and Recovery Operations, Gulf of Mexico – Party Chief/Lead Oceanographic Field Technician

Onsite project lead, party chief, for all mobilization/demobilization, deployment, recovery, and maintenance operations regarding the Woods Hole Group designed WatchDog 1000 Real Time Deepwater Meteorology and Ocean Monitoring System. Has participated in over one dozen individual deployment and recovery operations, leading eight, in which operational duties required direct client liaison and vessel operations oversight. The WatchDog 1000 is a real time metocean monitoring (RTMM) system deployed offshore, US Gulf of Mexico, at a depth of over 1370m (4500ft). The RTMM is a complex mooring, consisting of a 3 m surface buoy loaded with numerous meteorological, oceanographic, and communication instrumentation, a 47 inch subsurface float containing upward and downward looking 75kHz ADCPs, an internal data acquisition system (DAS) coupled with inductive and acoustic telemetry packages, and a near bottom current measurement suite. All subsurface measurements are transmitted to the surface via an acoustic telemetry package, where the data is compiled and disseminated to the Woods Hole Group base station computer via satellite radio communications.

MetOcean Moorings and Data Collection Program, Caribbean Sea, Colombia – Deck Operations Lead/Lead Oceanographic Field Technician

Operated as primary deck operations lead for nine individual deployment/recovery operations of the Woods Hole Group RTMM 3 m surface buoy deployed offshore Colombia. The RTMM campaign was deployed and operational from April 2015 to November 2017 with regular service intervals. Use of internationally recognized American Petroleum Institute (API) hand signals while rigging and moving equipment during live operations to communicate with a non-English speaking vessel crew. Servicing of the 3 m surface buoy includes maintenance and troubleshooting on a wide array of oceanographic and meteorological sensors. All surface buoy instrumentation is powered via solar panels with a main battery bank backup, dissemination of real time data is accomplished via use of a select group of satellite telemetry packages.

MetOcean Moorings and Data Collection Program, Rio de Janeiro, Brazil – Party Chief/Deck Operations Lead/Oceanographic Field Engineer

Operated as the party chief, primary deck operations lead for the mobilization, deployment, and servicing of two separate deep water moorings. Both moorings were deployed in 2,000-2,100 m of water and contained equipment and floatation for full water column measurements and profiling. The first of the moorings was a complex mooring, consisting of a 3 m surface buoy with multiple oceanographic and telemetry packages, 65 inch and 47 inch subsurface floatation containing upward looking 75kHz ADCPs, numerous in-line instrumentation cages for full water column (surface to seafloor) salinity redundant current profiling measurements. The second mooring was a taught wire mooring containing multiple 47 inch subsurface floatation packages outfitted with upward looking 75kHz ADCPs as well as numerous in-line cages for redundant current profiling measurements throughout the water column, including near-bed measurements. In country activities were conducted with Proceano, a sister company of Woods Hole Group, acting as local and client liaison. Full system refurbishment, pre-deployment instrument testing and calibration was performed, and all instrumentation was confirmed operational prior to deployment

KEY PROJECTS (CONTINUED)

MetOcean Mooring and Data Collection Program, Rio de Janeiro, Brazil – Party Chief/Deck Operations Lead – Oceanographic Field Engineer

Operated as party chief, primary deck operations lead for the mobilization, deployment, servicing and recovery of an offshore mooring program located off the coast of Rio de Janeiro, Brazil. The mooring was a taut wire design deployed in approximately 120 m of water. The mooring included several instrumentation packages for full water column measurements. In country activities were conducted with Proceano, a sister company of Woods Hole Group, acting as local and client liaison. Pre-deployment instrument testing and calibration was performed, and all instrumentation was confirmed operational prior to deployment.

MetOcean Moorings and Data Collection Program, Caspian Sea, Azerbaijan – Party Chief/Deck Operations Lead – Oceanographic Field Engineer

Performed over 20 individual deployment and recovery operations as a core member of the offshore oceanographic team, maintaining a total of six moorings deployed offshore Caspian Sea at depths ranging from 15 m to 650 m. The moorings were deployed for a one year period in a new offshore gas field to help understand the physical oceanographic properties and potential impacts on future drilling, production, and pipeline activities in the area. Moorings included bottom mounted, taut wire designs and surface expression designs. A shore based meteorological station measuring a range of atmospheric conditions was also installed as a means to compliment the offshore oceanographic data collected from the mooring deployments. Pre-deployment instrument testing and calibration was performed on all instrumentation slated for deployment.

Real-Time Oceanographic Measurement Systems: DS-3, DS-4, West Auriga, West Capricorn, West Vela, Q5000, Noble Bob Douglass, Gulf of Mexico – Party Chief – Oceanographic Field Engineer

Lead field engineer for all WHG offshore oceanographic measurement launch and recovery systems (LARS). WHG designed, installed, and maintains a number of real time current measurement systems on offshore mobile drilling units (MODUs), providing 1000 m current profiles in real-time to the vessel and to the National Data Buoy Center. Upward and downward looking ADCPs are mounted on a frame suspended from two electro-mechanical cables that are positioned with dual hydraulic winches. An articulated A-frame supports the winches and sheave blocks. The system, which is largely automatic, 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.

Seafloor Mapping and Early Object Detection Study, Gulf of Mexico – Hydrographic Survey Technician

Operated as a member of the offshore hydrographic survey team performing large-scale seafloor mapping and early detection studies for hazardous objects and obstructions. Main duties included back deck operations of towed sensor deployment and retrieval for emergency repair and daily inspection purposes, mobilization and demobilization of back deck sensors and equipment regarding changes in project scope, and the operation of back deck winches, tugger systems, and generators. Computer based operations included the monitoring of real time data from towed sensors and side mounted multibeam for any data or visual irregularities, and the assistance in selection and set up of survey lines and navigational markers for the bridge. Towed survey sensors included the use of a dual side scan sonar, high penetration sub bottom profiler, and a transverse gradiometer configuration using dual magnetometers.

KEY PROJECTS (CONTINUED)

Offshore Deep Water and Sediment Sampling, Gulf of Mexico - Oceanographer

Aided in the assessment and collection of water samples and sediment cores in the Gulf of Mexico regarding the search for oil traces and contaminants post Deepwater Horizon oil spill. Responsibilities included the setup, operation, deployment, and retrieval of a mega-corer, CTD rosette, and a box corer to obtain water and sediment core samples from a variety of depths and locations.

Jacksonville Physical Oceanographic Real-Time System (PORTS) Installation – Oceanographic Field Technician

Aided in the construction and installation of oceanographic and meteorological equipment regarding the setup and operation of a new real time data measurement program along the St. Johns River, Jacksonville, FL. Over 13 measurement systems were installed on USCG aids to navigation (ATON) buoys, self-standing elevated platforms, docks/piers, concrete vertical bridge footings, and individual concrete dolphins. Oceanographic and meteorological measurement equipment installed included but were not limited to current profilers, side looking horizontal current meters, acoustic water level sensors, conductivity sensors, visibility sensors, temperature sensors, barometers, and wind sensors. Performed static GPS surveys, as well as ran initial and confirmation close out second order, class one geodetic level surveys to and from tidal stations, reaching available historic benchmarks, tying the new station sensor elevations into the existing tidal database.

Routine Annual Maintenance of Los Angeles Physical Oceanographic Real-Time System (PORTS) Meteorological Stations – Project Manager/Oceanographic Field Engineer

Serve as the primary, lead field technician, for the Los Angeles Pilot's Association meteorological stations for navigational aid. Servicing tasks require instrument and sensor testing, troubleshooting, replacement, coaxial and communications cable repair, power failure troubleshooting, and radio, computer and data logger integration/communications issues.

Installation and Servicing of Houston/Galveston Bay PORTS Horizontal Acoustic Doppler Current Profiling (ADP) System for NOAA/NOS/CO-OPS, Houston/Galveston Bay, TX, Galveston Channel, West End – Project Manager/Oceanographic Field Engineer

Serve as primary, lead field technician and technical assistant to Project Manager, Clinton Hare for all local and onsite mobilization activities. Duties included but were not limited to vendor communications and organization, station and equipment installation and servicing activities, initial equipment procurement, technical support, and reporting tasks. Assist on an as-needed basis with technical support and reporting tasks, including field support for installation and follow up service visits.

Routine and Emergency Maintenance of NOAA/NOS/CO-OPS National Water Level Observation Network/Physical Oceanographic Real-Time Systems/Texas Coastal Ocean Observation Network (NWLON/PORTS/TCOON) Water Level and Current Meter Stations: Pascagoula, MS; Galveston, TX, North East Texas Gulf Coast – Oceanographic Field Engineer

Serve as local technical assistant/local operator and aid to operations manager and the Delaware Field Office on an as-needed basis for field support of routine operation and maintenance activities, as well as scheduled inspections and emergency service visits.

KEY PROJECTS (CONTINUED)

Routine Annual and Emergency Maintenance of NOAA/NOS/CO-OPS National Water Level Observation Network/Physical Oceanographic Real-Time Systems (NWLON/PORTS) Water Level and Current Meter Stations in South East United States and Barbuda (West Indies) – Marine Field Technician

Served as one of the primary field technicians/local operators providing routine maintenance and repairs for NOAA/NOS real time tidal monitoring NWLON and PORTS systems throughout the southeast United States and Barbuda, West Indies. Tasks regularly included the testing of solar powered and battery storage systems, satellite antennas and transmitter, frequency hopping radios, and a variety of meteorological and oceanographic sensors. As part of the annual inspections on water level stations, second order, class one geodetic surveys were performed in accordance with NGS requirements.

Construction and Installation of NOAA/NOS/CO-OPS NWLON/PORTS Water Level Stations: Jacksonville Bar Pilots Association, FL; Bayou La Batre Bridge, AL; Chickasaw Creek, AL; Pilottown River Pilots Association, LA – Marine Field Technician

Aided in the complete construction and installation of equipment for multiple storm surge and early warning systems along the US Gulf of Mexico and SE regions. Set and drilled wooden support beams, railings, and floor supports; installed aluminum protective cabinets and meteorological towers to house sensors and antennas; measured, cut, threaded and ran conduit for electrical wiring between electronics housing, solar panels, meteorological and tidal sensors. Performed static GPS surveys, as well as ran initial and confirmation close out geodetic level surveys to and from the tidal station, reaching all available historic benchmarks, tying the new tidal station sensor elevations into the existing tidal database. New NGS 3D deep rod marks were set when necessary to provide sufficient references for vertical datum leveling checks throughout the years.