

MARINE GEOPHYSICAL

WHO WE ARE

TDI-Brooks acquires, processes and interprets geophysical data collected to assist in understanding seabed ground conditions in support of your offshore Oil & Gas and/or Renewables program.

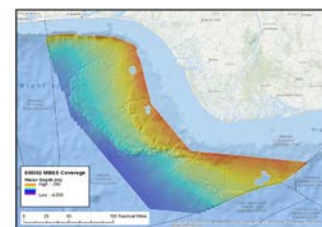
Offshore geophysical surveying is the systematic data collection and interpretation of features which affect maritime navigation, marine construction, dredging, offshore oil exploration/offshore oil drilling and related activities.

Each TDI-Brooks vessel can be mobilized with a full suite of geophysical survey instruments to safely conduct marine geophysical surveys. In addition to our in house vessel services, we offer portable tool kits which can be shipped globally to any vessel of opportunity.

WHAT WE PROVIDE

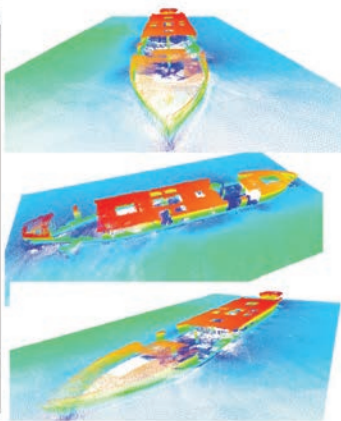
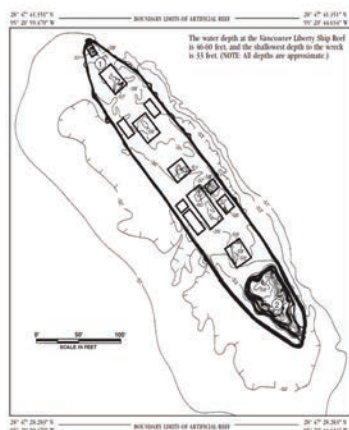
Shallow Hazard Surveys including but not limited to:

- Lease Surveys
- Site-Specific Surveys
- Seafloor Obstruction Surveys
- Pipeline Pre-install Surveys
- Pipeline Inspection Surveys



Assistance with Pre-Survey Coordination with BOEM:

- Scope and purpose of survey
- Survey logistics
- Data to be acquired
- Field techniques and equipment
- Data processing and analysis
- Data and information to be submitted
- Bottom-disturbing activities
- Site specific considerations



Type EC-2 Liberty Ship
441 feet overall



Each TDI-Brooks vessel uses its multibeam echo sounder to conduct hydrographic surveys. Multibeam sonar measures the depth of the sea floor by analyzing the time it takes for sound waves to travel from a boat to the sea floor and back. In addition to our onboard services, we offer portable tool kits which can be shipped to any vessel of opportunity.

CONTACT US

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A hydrographic survey is usually focused on obtaining high quality bathymetric data of the seabed. Acquisition of hydrographic and geophysical data primarily uses a range of acoustic-based instruments to characterize the seabed.

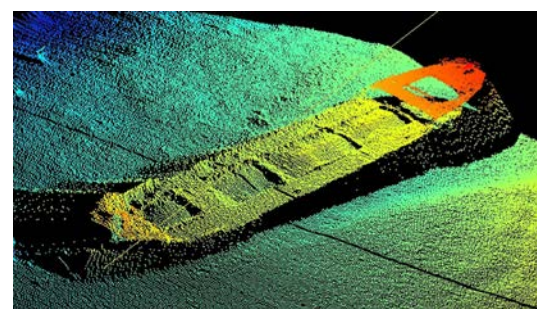
A geophysical survey involves a number of data requirements including water depths, seabed topography, seabed and subseabed obstructions, seabed soils, shallow geology and ground conditions and identification of any man-made and naturally occurring hazards that may adversely impact the objective of the site investigation (geohazards).

WE PROVIDE REPORTING FOR

- Area Description
- Survey Description
- Maps for:
 - *Navigation Post Plot
 - *Bathymetry
 - *Shallow geologic features
 - *Deep geologic features
 - *Sidescan sonar contacts
 - *Magnetic anomalies
 - *Ares of shallow gas
 - *Sites of proposed operations
 - *Sites of former operations
- Assessments for:
 - * General geological background
 - * Oil and gas activity, including wells, platforms, and pipelines
 - * Bathymetry
 - * Seafloor features, including sidescan sonar contacts
 - * Geological structure, including faults, river channels, and karst areas
 - * Shallow gas, gas hydrate, and shallow water flow
 - Unstable seafloor areas

INSTRUMENTATION

- ▶ Shallow Penetration Subbottom Profiler
- ▶ Medium Penetration Seismic Profiler
 - ▶ 2DHR Seismic
- ▶ Pseudo 3D Seismic and 3D Seismic
 - ▶ Depth Sounder
 - ▶ Magnetometer
 - ▶ Sidescan Sonar



SCIENTIFIC SERVICES ON A GLOBAL BASIS

TDI-Brooks is a scientific data acquisition services company specializing in multi-disciplinary oceanographic projects covering; offshore geotechnical field services, environmental baseline surveys, seabed geochemical "seep hunting" and heat flow for oil and gas exploration, offshore geophysical surveys for oil & gas, wind farm, metocean, seabed mining, dredging, LNG, and multi-disciplinary oceanographic and high-end environmental chemistry, renewables and marine research.

TDI-Brooks has over 25 years of vessel chartering and management experience and currently operates four research vessels, R/V Gyre, R/V Proteus, R/V Miss Emma McCall and R/V Brooks McCall.