

Lindsay Critides

Marine Geoscientist

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TDI-Brooks International, Inc.

14391 S. Dowling Rd, College Station, TX 77845

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www.tdi-bi.com

PROFESSIONAL EXPERIENCE

- Marine Geoscientist, TDI Brooks International, Inc., Sept 2021 - Present
- Consulting Marine Geoscientist/Data Processor/Surveyor, OARS Group, Nov 2018 - Sept 2021
- Staff Geoscientist, Exploration Group, Fugro USA Marine Inc, May - Nov 2018
- Geoscience Intern, Geoconsulting, Fugro USA Marine Inc, Oct - Dec 2017
- Lab Manager/Researcher, Coastal Geology Lab, Texas A&M Galveston Aug 2014 - May 2018

PROFESSIONAL SUMMARY

- Over 7 years of experience in the offshore survey industry, primarily wind farm, pipeline and cable route assessment, site geohazards, and seep hunting.
- Skilled in the acquisition, processing, and interpretation of marine geological, hydrographic, and geophysical data in coastal and deep ocean environments.
- Strong proficiency with various software packages for multibeam bathymetry, seismic/sub-bottom profiler, and side scan sonar processing and interpretation.

KEY ACHIEVEMENTS - TDI BROOKS INTERNATIONAL, INC.

- Responsible for the QC of data acquisition and the interpretation, in accordance with documented procedures and work instructions.
- Process bathymetry, side scan sonar, sub-bottom profiler, seismic, backscatter, and water column data for geophysical surveys.
- Provide support to team members on data processing and interpretation procedures.
- Conduct geophysical report writing and proposal preparation for various survey projects.
- Monitoring the acquisition of navigation, scientific sampling, geophysical survey, and engineering data at sea in U.S. and foreign waters, liaises with and assists PC and other survey staff, maintains logs.

KEY ACHIEVEMENTS – OARS GROUP

- Seasoned consultant and subject matter expert in marine geohazard site selection and survey, survey planning and operations, geological/geophysical/geotechnical integration, and development planning.
- Experienced in seismic and high-resolution geophysical interpretation, geomodeling, marine process geomorphology, QA/QC, and project management. Online Hydrographic data acquisition and multibeam data processing expertise.
- **2021** TDI Brooks Offshore Wind Farm. Senior Marine Geoscientist tasked with processing, QC and data management of SBP, SSS, Boomer Seismic, MBES and TVG Mag data. Utilized SonarWiz, SeiSee, Global Mapper, and Caris to ensure quality data calibration, collection, and processing as well as creating deliverables to client specifications and writing procedures.
- **2021** Oceaneering ROV Marine Construction. Online Surveyor tasked with navigation acquisition and data management of acoustic metrology for underwater well head and manifold utilizing NaviPac and Fusion software. Wrote daily reports.
- **2020** NOAA Hydrographic Charting. Surveyor tasked with acquisition and data management of SSS and MBES data for NOAA hydrographic survey projects utilizing SonarPro and ISS2000 software. Deployed and piloted the side scan towfish via winch cable, SVP acquisition/editing. Assisted in the process and review of SSS data using Saber.
- **2019** Fugro Offshore Wind Farm. Geo Processor tasked with processing and QC of SSS navigation using Starfix Proc. Side Scan geophysical processing, identifying contacts, and exporting geotiffs utilizing Sonarwiz and cleaning MBES bathymetry utilizing Caris.
- **2019** DOF Subsea. Data Processor tasked with Patch Test calibration, QC of navigation files, and processing, cleaning, and exporting HUGIN AUV MBES utilizing NaviEdit/NaviModel.

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- **2019** MMT Rig Decommissioning/Pipeline Assessment. Data Processor tasked with processing and cleaning, flagging, and QC of ROV MBES pipeline data utilizing NaviEdit/NaviModel as well as QC of post navigation and pipeline tracking from hull-mounted and ROV MBES.
- **2019** TDI Brooks Seep Hunting. Geoscientist tasked with writing daily geological reports, project data management, processing and QC of MBES, Water Column, Backscatter, and SBP data as well as interpreting seep and geomorphology utilizing Qimera, Fledermaus FMGT/Midwater, ArcGIS, and Sonarwiz.
- **2018** Ballard Marine Construction Cable Route Assessment. Data Processor tasked with processing and QC of navigation, MBES and utilizing NaviEdit/NaviModel and Global Mapper. Geophysical processing of ROV SBP and SSS utilizing Sonarwiz and Global Mapper. Production of deliverables to client specifications. Interpretation of seabed features and cable route locations. Exporting xyz files for AutoCad drafting. Generation of 3D models and report writing as well as presenting interpretations to client.
- **2018** Offshore Power LLC Offshore Wind Farm. Data Processor tasked with processing, cleaning, and QC of MBES and navigation data using Qimera. Marine Geoscientist tasked with SSS processing and interpretation of seabed features utilizing Sonarwiz and Global Mapper. Production of deliverables to client specifications.

KEY ACHIEVEMENTS - FUGRO USA Marine Inc.

- Specialized on marine surveys and desktop studies collecting and interpreting offshore geophysical data, geochemical coring campaigns, and shallow hazard assessments.
- Responsibilities included data acquisition for hydrocarbon frontier exploration, determine core targets, reporting, geological interpretations, and data management.
- **2018** Seep geoscientist responsible for the acquisition of MBES data, interpret seep and geomorphic features, and identify core target locations for geochemical analysis; programs used: Qimera, Fledermaus FMGT/Midwater, ArcGIS, and Kingdom; Tasks involved data collection, processing, data QA/QC, interpretation, and data management; Onshore geochemistry analysis using extractions and gas chromatography. ArcGis map generation. Completed onboard patch verification for EM302 and vessel mobilization.
- **2018** Gulf of Mexico Seep Survey. Geoscientist tasked with interpretation of stratigraphic horizons from 2DHR seismic data for shallow hazard assessment in Kingdom Suite. Created client deliverables and report figures.
- **2017** Guyana/Colombia Geohazard Assessment. Geoscientist tasked with interpretation of 2DHR seismic and MBES data, created figures and sediment core logs for integrated shallow hazard assessment reports and client presentations.

KEY ACHIEVEMENTS – TAMUG, Coastal Geology Lab

- Managed and coordinated logistics for various research/government funded projects, maintained lab and survey equipment, upheld quality procedures and workflows, trained/mentored undergraduates and graduate students on various skills and procedures.
- Supervised the installation, acquisition and processing of high-resolution geophysical equipment and Geotechnical sediment acquisition using gravity, vibration, box corers, and sonar seafloor sediment sampling systems.
- **2016-2018** Organized project and logistics for SBP data acquisition, processing, geomorphic interpretation for thesis work utilizing SonarWiz. Collecting all sediment cores using PVL Tech submersible vibracore system. Created project maps and figures using ArcGIS.
- **2016** Project Manager/Geoscientist overseeing project planning, data acquisition, processing, interpreting and reporting for Tres Palacios and Carancahua Bay Oyster Hunt in collaboration with TAMU-CC. Responsible for deliverables using Sonarwiz and ArcGIS and co-authored report.
- **2015-2016** Processed and interpreted SBP data in Sonarwiz for potential core target sites offshore Follets Island Texas, collected vibracores and processed/interpreted sedimentological and geochemical data. Created figures and co-authored report for GLO (General Land Office).
- **2014** Acquisition of MBES and SSS data using Hypack from offshore Galveston Island aboard NOAA vessel R/V Manta; processed MBES data in EIVA NaviEdit/NaviModel and SSS data in Sonarwiz, created grids and mosaics in ArcGIS, and assisted in report writing.



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FORMAL EDUCATION

- 2019 Master of Science, Oceanography, Texas A&M University
- 2015 Bachelor of Science, Marine Science and Geology, Texas A&M University Galveston