Scott Sudduth

Geophysical Data Processor

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TDI-Brooks International, Inc.
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PROFESSIONAL EXPERIENCE

- Geophysical Data Processor, TDI-Brooks International, Inc., 2023 - Present
- Geophysical Intern, TDI-Brooks International, Inc., 2022
- Coastal Geology Lab Technician / Undergraduate Researcher, Texas A&M University at Galveston, 2020 - 2022

PROFESSIONAL SUMMARY

Marine geoscientist with over 4 years of experience in the acquisition, processing, and interpretation of marine geological, hydrographic, and geophysical data in coastal and deep ocean environments. Proficient in SonarWiz, ArcGIS Pro, Global Mapper and FMGT for side scan sonar, sub-bottom profiler, magnetometer and backscatter data, with GIS mapping skills. Experienced in remote acquisition support, onshore/offshore data management and client deliverables.

KEY ACHIEVEMENTS - TDI-BROOKS INTERNATIONAL, INC.

- Remotely monitor geophysical and hydrographic data acquisition (side scan sonar, sub-bottom profiler, magnetometer, backscatter, etc.) in real time, working through remote-access workstations.
- Serve as remote data processor on 15+ long-term geophysical projects, collaborating with distributed survey and processing teams to ensure timely final deliverables. QC of geophysical data acquisition and interpretation, ensuring final deliverables satisfy client criteria and maintained logs.
- Manage the transfer of data between onshore and offshore teams, supporting the organization, integrity, and timely delivery of project datasets.
- Process and review geophysical datasets in SonarWiz and FMGT, and create final products, maps, and figures in ArcGIS Pro, including daily coverage maps from ongoing acquisition.
- Use scripting (primarily Python, with some PowerShell) as needed to automate processing and data-handling tasks.
- **2026** Remote acquisition support and minor seep hunting role. Managed onshore/offshore data transfers, processed SSS, SBP and MAG/TVG data in SonarWiz, and built ArcGIS Pro maps, daily coverage maps, and final deliverables to client specifications.
- **2025** Supported multiple overlapping remote projects. Post-processed data in SonarWiz, processed backscatter, produced ArcGIS Pro maps, handled aerial LiDAR drone datasets, and delivered daily and final products to clients. Also responsible for data transfer between onshore and offshore teams.
- **2024** Supported an extended geophysical survey campaign remotely, handling ongoing acquisition monitoring and data processing, maintaining data organization, and coordinating with the project team to deliver on schedule. Began work on more GIS focused deliverables.
- **2023** Hired on to provide remote geophysical data processing support. Expanded scope of work and supported multiple concurrent projects with acquisition monitoring, data processing, and data management. Collaborated with project teams to produce timely final deliverables.
- **2022** Geophysical Intern. Performed geophysical interpretation, including target picking and naming for TDI Offshore Wind Farm. Deployed on two offshore surveys: onboard geophysical acquisition, processing and reviewing data at sea and assisting with deployment and recovery of the sub-bottom profiler and side scan sonar/magnetometer tows; and offshore geotechnical sampling, performing box coring and vane shear testing of seabed sediment.

KEY ACHIEVEMENTS - TAMUG, Coastal Geology Lab

- Primarily supported geotechnical and sedimentological research, including sediment sampling, core processing, laboratory analysis, and data analysis and mapping.
- Trained student volunteers on lab procedures and safety measures.
- **2023** Listed as co-author on a publication that incorporated work from the Coastal Geology Lab (separate Coastal Sediments manuscript also prepared for the U.S. Army Corps of Engineers).
- **2022** Generated contoured ArcGIS maps and figures of grain size parameters, compiled scientific reports for senior thesis research on Sediment Trend Analysis reliability and won academic awards for presentation quality at a research symposium.

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- **2021** Began undergraduate thesis research: collected sediment samples by rocket coring, vibracoring, and grab sampling; performed a data gap analysis; analyzed grain size with a Malvern Mastersizer 2000; and developed the research proposal.
- **2020** Started as Lab Technician performing geological and water sampling, sediment core splitting and sub-sampling, and processing of geological, hydrological, and geotechnical data. Also managed large databases using Excel and ArcGIS Pro.

PROFESSIONAL SKILLS

- GIS and mapping: ESRI ArcGIS Pro (map production, coverage mapping, spatial data management), ESRI ArcGIS/ArcMap, Global Mapper
- Geophysical processing: SonarWiz (side scan sonar, sub-bottom profiler and magnetometer), QPS FMGT (backscatter)
- Other: scripting (Python, PowerShell) for task automation; onshore/offshore data transfer and management; MS Excel, Word, PowerPoint, Teams; technical and scientific writing

FORMAL EDUCATION

2022 Bachelor of Science, Marine Sciences, magna cum laude, Texas A&M University at Galveston
- Minor in Geology

PROFESSIONAL TRAINING AND CERTIFICATIONS

- Oct 2023 Chesapeake Technology SonarWiz Training, The Hydrographic Society of America

PROJECTS INVOLVED

Involved, to varying extents, in the following TDI-Brooks geophysical and site surveys since 2022:

- **May - Jun 2026** GeoPartners / TotalEnergies / BluEnergies, Liberia Seep Study (MBES/backscatter), Monrovia and Harper Basins, Liberia
- **Feb - May 2026** Armstrong O&G, Aruba
- **Jan - Apr 2026** Heritage Oil and Gas, Trinidad and Tobago
- **Dec 2025 - Jan 2026** United Oil and Gas Jamaica Ltd., Jamaica Seep Study (MBES/backscatter), Walton/Morant Basins, Jamaica
- **Nov - Dec 2025** EOG Resources, Beryl Pipeline Route Survey, Trinidad and Tobago
- **Nov - Dec 2025** EOG Resources, Shallow Hazard Site Survey, Block NCMA4a, Trinidad and Tobago
- **Nov 2025** Repsol Earth Solutions USA LLC, Corpus Christi Analogue Site Survey, offshore Corpus Christi, Gulf of Mexico
- **Sep 2025** Murphy Oil Corporation, Deep Water MBES/Seep Study, Côte d'Ivoire
- **Jul 2025** First E&P / StarfixGeo, Analogue and 2D HR Site Survey, Nigeria
- **Jul 2025** RAECL / Compass Surveys Ltd (CSL), HB PLEM Survey, Nigeria
- **Jun - Jul 2025** Tampnet Inc., Trion Cable Route Survey, South Texas
- **Jun - Jul 2025** European Eco Minerals (EEM) AS, Gambia Minerals Exploration Project (MBES/backscatter), The Gambia
- **Jun 2025** ST-Energy Company LLC, Whitewaters Pipeline Route Survey, Brazos Area 476, Gulf of Mexico
- **May 2025** Pelfaco / StarfixGeo, Sounda Field Analogue and 2D HR Site Survey, Congo
- **May 2025** Apache / GEMS, Archaeological Decommission Tow Route Surveys (four), Gulf of Mexico
- **Apr - May 2025** First E&P / StarfixGeo, Analogue and 2D HR Site Survey (ATO), Nigeria
- **Mar 2025** ST-Energy Company LLC, Geophysical Survey, Brazos Area 476, Gulf of Mexico
- **Jan - Feb 2025** Shell through Compass Surveys Ltd (CSL), Shallow Water Analogue and 2D HR Site Survey (HA Survey), Nigeria
- **Jan - Feb 2025** Shell through Compass Surveys Ltd (CSL), Shallow Water Analogue and 2D HR Site Survey (HB Survey), Nigeria
- **Jul - Dec 2024** GeoPartners / Staatsolie, Suriname Seep Hunting (MBES/Chirp), Deepwater Suriname
- **Jun 2024** Targa Resources, Shallow Water Pipeline Decommission Survey, West Cameron, Gulf of Mexico
- **Dec 2023** Perenco, Shallow Site Survey for Onyx-Arima Area, Trinidad and Tobago

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- **Dec 2023** EOG Resources Trinidad Ltd., Shallow Site Survey for the Beryl Drill Site, Trinidad and Tobago
- **Aug 2023 - Feb 2024** Attentive / TotalEnergies, OCS-A-0538 Wind Farm Survey (Package 2, offshore cable routes), New York Bight
- **Apr 2023 - Jan 2024** Attentive / TotalEnergies, OCS-A-0538 Wind Farm Survey (Package 1, lease area), New York Bight
- **Apr - Jul 2023** Vineyard Mid-Atlantic, VMA Offshore Cable Route Geophysical Survey, OCS-A-522
- **Mar - Apr 2023** Logistica Marina, SA de CV, 2D HR Survey, Gulf of Campeche
- **Nov 2022 - Jan 2023** Vineyard North East, VNE Offshore Cable Route Geophysical Survey, OCS-A-522
- **Oct 2022 - Mar 2023** Attentive / TotalEnergies, Block 0538 Wind Farm Survey, New York Bight
- **Aug - Sep 2022** BHP, Calypso Development Pipeline Survey, Trinidad and Tobago

PUBLICATIONS

- Dellapenna, T.M., Jung, N., Schenk, R., Sudduth, S., Lin, P., and Figlus, J. (2023). How subsidence and cyclone driven sediment flux within Galveston Bay has caused elevated siltation within the Bayport Channel and Flare. Coastal Sediments 2023 Proceedings, World Scientific. doi:10.1142/9789811275135_0098