

BRUCE LEYBOURNE

EXPERIENCE SUMMARY

Twenty-five+ years of operational and managerial experience utilizing a variety of data acquisition techniques. I have worked on projects in North and South America, Europe, Africa, the Middle East and South East Asia. Projects included both 2D, & 3D seismic surveys located offshore utilizing single streamer, multi streamer, high resolution operations, and Senior Scientist on deep ocean seafloor and gravity mapping, and shallow water hydrographic multi-mission military surveys. I am highly familiar with most gravity and magnetometer systems presently being used on offshore surveys. Also have knowledge of the latest electromagnetic bottom surveying techniques presently being used and developed. Registered Professional Geologist in Mississippi since 1999. Specialties: Gravity - BGM, L&R, Scintrex CG-5, Seaspy magnetometer's, Seismic Stratigraphy, 3.5KHz, Navigation, ADCP Current Meters, Side Scan Sonar - Data Sonics and Klein 5000, Oceanographic Surveys with CTD, XBT sound velocity profiling, gravity coring, bottom grab sampling and geophysical and oceanographic mapping projects. Data Mining of Geothermal, SST's, Earthquakes, GRACE Gravity with Regional Tectonic Analysis and Interpretation. Extensive writing, publication and oral presentation experience.

DETAILED EXPERIENCE

CEO, Founder

CLIMATE-STAT INC.

2003 – Present

<http://www.climatestat.com>

- Specializing in software development for geospatial solutions and creating inputs for climate/weather modeling.

Gravity-Magnetic Specialist

EDCON-PRJ, Inc.

2008 – 2014

- Gravity-Magnetic Specialist, Data Acquisition & Processing L&R & BGM gravity meters, SeaSpy magnetometers.

Chief Scientist/Researcher

EARTH CLIMATE RESEARCH INSTITUTE (ECRI)

2003 – 2005

- Chief Scientist/Researcher for tectonic modulation of climate.

Geophysicist/Oceanographer-GS-1313-12.4

US NAVAL OCEANOGRAPHIC OFFICE -GEOPHYSICAL APPLICATIONS

1985 – 2003

- Geo-spatial development of new concepts in geophysics providing ocean reference for 3 d circulation and flow models extension to littoral zones. Managed gravity land based reference stations, and moored current meter databases developing tectonic links to climate.

Specialist Geophysicist/Physical Scientist-GS-5-11

DEPARTMENT OF DEFENSE

1985 – 1996

- Team member for the Department of Defense in the planning, execution, and completion of various geophysical processing projects collecting multiple survey platform data sets. Maintain and calibrate equipment in data collection on multi-mission military-surveys.

Field Assignments

- Senior Scientist (SNR-GS-13) onboard reconnaissance gravity surveys in South Atlantic, 2002.
- Senior Gravity Representative for survey land tie in Cape Town, South Africa.
- Marine Geology instructor (4 years) on Navy educational outreach programs (OCEANS ALIVE and SEA SCHOLARS).
- Project Leader for Klein 5000/Data Sonics side-scan, acoustic back-scatter surveys. This provides ground-truth for acoustics in conjunctions with SIMRAD multibeam-swath bathymetry surveys for homeland defense.
- Shipboard Data Manager GS-12: ISS-60 System managing bathymetry/gravity and physical oceanography survey operations, responsible for data collection and quality. Monitor all systems and data streams, supervise watch standers and train new personnel. Back up data-sets daily and generate reports and final data package for transmission to office.
- Senior Gravity Representative 11-12/99 Korea–Singapore–Okinawa onboard Sumner; 05-08/98 North Pacific onboard R/V Revelle, new land stations in Hawaii; Seabeam/3.5KHz surveys 01-03/94 Adriatic onboard Kane, reestablished land stations in Sicily, Rota and Copenhagen. 1991
- Land Tie Bermuda onboard Wyman. (6 years “at sea” on various military surveys).

EDUCATION

University of Southern Mississippi
1991 – Master of Science-Geology

University of North Carolina
1982 – Bachelor of Science-Geology

PROFESSIONAL LICENSES, CERTIFICATES AND AFFILIATES

- Registered Professional Geologist in Mississippi, since 1/99
- American Geophysical Union since 1991
- Marine Technology Society local chapter at Stennis Space Center – Held Chairman, Vice-Chairman and Treasury positions over three-years 1997-1999
- Served as president Southern Geological Society at University of Southern Mississippi 1983-1984
- Alumni and Brother of the Sigma Alpha Epsilon Fraternity, initiated in 1979 became Treasurer 1980-81 UNC at Wilmington
- Member of Institute for Advanced Studies on Climate Change (IASCC)