

# Gregory J. Kurras

Owner / Principal / Marine Geologist & Geophysicist



<b>Date of Birth:</b> <i>On Request</i>	<b>Nationality:</b> U.S.A.	Seafloor Investigations, LLC. 1037 NE. 65 <sup>th</sup> St., #80194 Seattle, WA 98115 USA
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<b>EDUCATION (DEGREE AND SPECIALIZATION)</b> - Ph.D. (ABD) Marine Geology & Geophysics, Univ. of Hawaii - M.S. Marine Geology & Geophysics, Univ. of Hawaii - B.S. Ocean Engineering, FL Inst. Of Technology	<b>TRAINING / CERTIFICATES / PROF CERTIFICATIONS</b> - Mentor Navigation: General & Advance Geodetic Positioning. - STCW Safety & Firefighting Training & Certification - Training Certificates: Optech Shoals LIDAR, Fugro Starfix, Remus AUV, GOM-HAZWOPER Training (40hr)
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## SUMMARY OF EXPERIENCE

Greg Kurras has been in the offshore industry for over 25 years and possesses extensive technical expertise in mapping coastal, near-shore, shallow water and deep ocean environments with a variety of geophysical & hydrographic systems for both commercial and academic purposes. These datasets have been used for hydrographic charting, site investigations, rig moves, seafloor classification, habitat mapping, telecommunication desktop studies, cable installations, and offshore construction. His expertise range from field acquisition to advance data processing & interpretation to project management. Since 1992 Mr. Kurras has managed numerous projects of various size and scope directly in the field and remotely from the office with staffs ranging from 6 - 20 people. He has the technical skills, hands-on field experience, and advance scientific & data processing knowledge to meet any project requirements. His broad industry expertise, organizational skills, strong work ethic, attention to detail, background and international experiences provide a solid foundation that can be applied to any level of team or project.

## PROFFESIONAL EXPERIENCE

Apr. 09 – current	Position – President / Marine Geologist & Geophysicist Company – Seafloor Investigations LLC, 1037 NE. 65th St., #80194 Seattle, WA 98115 Supervisor – n/a
Oct. 07 – Apr. 09	Position – Marine Geologist & Geophysicist / Hydrographer Company – Fugro Seafloor Services Inc., 2727 Alaskan Way, Seattle, WA 98121 Supervisor – Carol Lockhart, email: c.lockhart@seafloor.com
Nov. 06 – Oct. 07	Position – Data Center Manager Company – Fugro Pelagos Inc., 3738 Ruffin Rd., San Diego, CA 92123 Supervisor – Doug Lockhart, email: dlockhart@fugro.com
Sep. 04 – Nov. 06	Position – Marine Geologist & Geophysicist / Hydrographer Company – Fugro Pelagos Inc., 3738 Ruffin Rd., San Diego, CA 92123 Supervisor – Doug Lockhart, email: dlockhart@fugro.com
Nov. 02 – Jul. 04	Position – Lead Marine Geophysicist Company – Saudi Aramco / Hydrographic Survey Unit, Kingdom of Saudi Arabia Supervisor – Dave Brice
Jan. 00 – Nov. 02	Position - Seafloor Mapping & Exploration Consultant Company – Self Employed
Aug. 96 – Dec. 01	Position - Research Assistant Company - Hawaii Mapping Research Group, 1680 East West Rd. POST 815, Honolulu, HI 96822 Supervisor - Dr. Margo Edwards, email: margo@soest.hawaii.edu (+1 808-956-5231)
Sep. 93 – Aug. 96	Position - Research Assistant Company - Marine Minerals Technology Center, 2525 Correa Rd. HIG 131, Honolulu, HI 96822 Supervisor - Charles Morgan (+1 808-587-5322)
Jul. 91 – Aug. 93	Position - Project Geophysicist Company - Digicon Geophysical, 3701 Kirby Dr., Houston, TX 77098-3982 Supervisor - Dave Elder (+1 713-630-4064)

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## MARINE SURVEY SYSTEMS

WHOI ARGO II Sidescan & Photo	WHOI DSL120 Sidescan & Bathymetry	WHOI Towed Camera Sled
WHOI Sentry AUV	REMUS & BlueFin AUV's	Remora 6000 ROV
LDEO SCAMP Sidescan & Bathymetry	ODEC Bathy-2000 Sub-Bottom Profiler	Triton Acquisition & Processing System
HMRG Acquisition & Processing	Applanix INS Systems	Seabeam 2112 Multibeam Bathymetry
Klein Sidescan Sonars	DSSI ROV System	Reson Multibeam systems
EdgeTech Chirp Sub-Bottom profilers	OPTECH SHOALS LIDAR System	

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## SURVEY SOFTWARE

ESRI ArcGIS	AutoCAD Map	Lieca ERDAS	GMT (Generic Mapping Tool)
MB System	CARIS HIPS & SIPS	Applanix PosPac	Optech SHOALS GCS
RSI ENVI	Quick Terrain Modeler	StarFix Post-proc	QPS Fledermaus & Qimera
CODA	Reflex-Win Seismic	EdgeTech Software	Chesapeake SonarWiz
20/20	Hypack	Triton Imaging Suite	Global Mapper
WinFrog	Reson Software	Seabird SBE Package	QPS Fledermaus Mid-Water

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## PROFESSIONAL ASSOCIATIONS

Marine Technology Society (MTS)      Geophysical Society of America (GSA)

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## PUBLICATIONS

- Michael, P.J., C.H. Langmuir, H.J.B. Dick, J.E. Snow, S.L. Goldsteink, D.W. Graham, K. Lehnert, G.J. Kurras, W. Jokat, R. Muhe H.N. Edmonds; **Magmatic and amagmatic seafloor generation at the ultraslow-spreading Gakkel ridge, Arctic Ocean**, *Nature*, 423, 2003
- Kurras, G.J., M.H. Edwards, J.R. Cochran, B.J. Coakley, **Volcanism Along the Ultra-Slow Spreading Gakkel Mid-Ocean Ridge**, *Geology*, 2002
- Cochran, J.R., G.J. Kurras, M.H. Edwards, B.J. Coakley, **The Gakkel Ridge: Bathymetry, gravity anomalies and crustal accretion at extremely slow spreading rates**, *Journal of Geophysical Researches*, 2002
- Michael, P.J., JörnThiede, Charles Langmuir, Wilfried Jokat, Henry Dick, Jon Snow, David Graham, E. Weigelt, Steven Goldstein, Richard Mühe, Henrietta Edmonds, O. Ritzmann, Gregory Kurras; **Results of the Arctic Mid-Ocean Ridge Expedition - AMORE 2001 – Seafloor Spreading at the Top of the World**; *International Ridge-Crest Research: Arctic Ridges*, 10, 2001
- Smith, M.C., M.R. Perfit, D.J. Fornari, W.I. Ridley, M.H. Edwards, G.J. Kurras, K.L. Von Damm, **Magmatic Processes and Segmentation at a Fast Spreading Mid-Ocean Ridge: Detailed Investigation of an Axial Discontinuity on the East Pacific Rise Crest at 9° 37'N**, *G-Cubed*, 2, 2001
- Kurras, G.J., M.H. Edwards, P. Michael, J.R. Cochran, B.J. Coakley, **Comparison of Seabeam-2112 and SCAMP Bathymetry Data Along the Gakkel Mid-Ocean Ridge; Preliminary Mapping Results from the Healy0102 Arctic Cruise.**, *OCEAN 2001, Proceedings*, 2001
- Tolstoy, M., D.R. Bohnenstiehl, M.H. Edwards, G.J. Kurras, **Seismic character of volcanic activity at the ultraslow-spreading Gakkel Ridge**, *Geology*, 1139–1142, 2001
- Engels, J., M.H. Edwards, D.J. Fornari, G.J. Kurras, D. Bohnenstiehl, **Collapse of seafloor volcanic terrain: A key process in the formation of the upper ocean crust**, *Geology, Submitted*, 2001
- Edwards, M.H., G.J. Kurras, M. Tolstoy, D.R. Bohnenstiehl, B.J. Coakley, J.R. Cochran, **Evidence of Recent Volcanic Activity on the Ultra-Slow Spreading Gakkel Ridge**, *Nature* 409, 808 – 812, 2001
- Kurras, G.J., D.J. Fornari, M.H. Edwards, **Volcanic Morphology of the East Pacific Rise Crest 9° 49' - 52' N: Implications for Emplacement Processes at Fast-Spreading Mid-Ocean Ridges**, *Marine Geophy. Res.*, 21 (1):23-41, 2000
- Kurras, G.J., Edwards, M.H., D.J. Fornari, and P. Johnson, **An Online Database for the East Pacific Rise 9° - 10°N**, *RIDGE Newsletter*, 10,2, 9-13, 1999
- Kurras, G.J., M.H. Edwards, D.J. Fornari, **High-resolution bathymetry of the East Pacific Rise axial summit trough 9° 49'-51'N: A compilation of Alvin scanning sonar and altimetry data from 1991-1995**, *Geophy. Res. Lett.*, 25, 8, 1209-1212, 1998
- Fornari, D., G. Kurras, M. Edwards, W. Spencer, W. Hersey, **Mapping volcanic morphology on the crest of the East Pacific Rise 9° 49'-52'N using the WHOI towed camera system: a versatile new digital camera sled for seafloor mapping**, *BRIDGE Newsletter* 14, 4-12, 1998
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**Multiple Projects, WHOI Sentry AUV (2012 – current)**  
**Woods Hole Oceanographic Inst. (WHOI) / Deep Submergence Lab**

*Various sites around the globe*

Contracting with Woods Hole Oceanographic Inst. (WHOI) Mr. Kurras regularly acts as the geophysical processing lead and assistant systems engineer for the Sentry AUV system. These projects involve various oceanographic sensors, multibeam bathymetry, sidescan sonar, subbottom profiler data and high resolution photo imagery.

**Multiple Projects, WHOI TowCam Survey (2011 – current)**  
**Woods Hole Oceanographic Inst. (WHOI) / MISO group**

*Various sites around the globe*

Contracting with Woods Hole Oceanographic Inst. (WHOI) Mr. Kurras regularly acts as lead TowCam engineer for multiple projects spanning the last few years. These surveys acquire near bottom high resolution photographic imagery in a variety of terrains

**Locating Data Recorder of the El Faro, WHOI Sentry AUV Survey (2016)**  
**National Transportation and Safety Board (NTSB)**

*Atlantic Ocean*

While contracting with Woods Hole Oceanographic Inst. (WHOI) Mr. Kurras was the primary sonar expert / processors for the search of the Wreckage from the El Faro trying to locate the Data Recorder using the Sentry AUV sonar & photographic systems. The project was extremely successful, locating, imaging and photographing the data recorder in April of 2016. The survey included sidescan sonar and high resolution photo imagery.

**Multiyear Mineral Exploration Project, multiple systems, ships & cruises (2012 – 2015)**  
**Lockheed Martin Corporation**

*Pacific Ocean*

Seafloor Investigations was the primary contractor with Mr. Kurras acting as exploration project manager and lead geophysicist for a multi-year exploration and assessment effort in the Pacific by Lockheed Martin Corporation. The project involves multiple cruises utilizing various vessels and facilities (i.e. ROV's, AUV's, ship based geophysical systems, oceanographic sampling systems, etc.....) in collaboration with various commercial and academic institutions.

**Damage Assessment of BP Deep Water Horizon, WHOI TowCam Survey (2011)**  
**Woods Hole Oceanographic Inst. (WHOI) / MISO group**

*Gulf of Mexico USA*

While contracting with Woods Hole Oceanographic Inst. (WHOI) Mr. Kurras acted as lead TomCam engineer during the assessment of environmental damage from the BP Deep Water Horizon disaster. The project was extremely successful, providing high resolution photographic imagery of the seafloor surrounding the well site.

**Location of Air France 447 Wreckage, Deepwater REMUS 6000 AUV Survey (2011)**  
**Woods Hole Oceanographic Inst. (WHOI)**

*Mid-Atlantic Ocean USA*

While contracting with Woods Hole Oceanographic Inst. (WHOI) Mr. Kurras was one of two sonar experts / processors for the search for Air France 447 Wreckage using three REMUS 6000 AUV's. The project was extremely successful, locating, imaging and photographing the AF447 wreckage in April of 2011. The survey included sidescan sonar and high resolution photo imagery.

**Cable Route Survey & Feasibility Study for the Optikor Submarine Cable Network (2009)**  
**Tyco Telecommunications Ltd, Desktop Study**

*New Zealand – Australia*

While working for Fugro Seafloor Surveys, Mr. Kurras was lead on producing the desktop study for a proposed submarine fiber optic cable route from New Zealand to Australia. The project involved extensive research into all aspects of investigating submarine cable routes across international waters and multiple natural, commercial and regulatory hazards.

**Cable Route Survey & Site Visits for G2T Submarine Cable Route (2009)**  
**Global Marine Systems Ltd, Cable Route Study & Site Investigation**

*Trinidad – Guyana – Suriname*

While working for Fugro Seafloor Surveys, Mr. Kurras was lead in-field investigator conducting site visits in Guyana, Trinidad and Suriname for the full Cable Route Study of the G2T submarine cable. Additionally he was one of two principles researching and producing the Desktop Study portion of the CRS.