

CURRICULUM VITAE

KEVIS-STIRLING, Nile Akel

KEVIS-STIRLING MARINE SERVICES

PERSONAL INFORMATION:

Date of birth: 28th May 1974

Nationality: American

- UK resident with full work visa

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PROFESSIONAL QUALIFICATIONS:

2000 - 2005 MSc Marine Geophysics
University of Hawaii

1995 - 1998 BSc Geology & Geophysics
University of Hawaii

EXPERIENCE & WORK HISTORY:

2007 - Present **KEVIS-STIRLING MARINE SERVICES**

ROV Pilot / Navigator / Data Manager

Seven years (including five with HMRG) working with the JASON II ROV (Woods Hole Oceanographic Institution) during numerous deep ocean research surveys. Piloting role included precision manipulator work such as sulfide, coral, animal and sediment sampling and precision piloting around fragile shipwrecks and sensitive biological sites as well as piloting for survey work (including photo mosaicing and multibeam mapping). Navigation role included mobilization, calibration, operation, maintenance, and repair of Benthos long baseline (LBL) and Sonardyne Fusion ultra-short baseline (USBL) navigation hardware and software. Role also included mission planning to ensure scientific targets were surveyed accurately and efficiently whilst liaising with the Client, data management, acquisition and processing (including SM2000 multibeam bathymetry, magnetometer, CTD, light-scattering sensor and digital still and video photography).

Geophysicist

Geophysicist during pipeline and site surveys. Role included quality control and interpretation of side scan sonar and hull-mounted pinger data using CODA and Kingdom software.

2001 - 2005 **Hawaii Mapping Research Group, University of Hawaii**

Senior Sonar / Data Systems Specialist

Position included: JASON II ROV expert, responsible for group coordination, data acquisition, processing and management; Research and development of new processing techniques for DSL-120a side scan sonar and bathymetry data; Supervision of acquisition and processing of side scan sonar and phase- and multibeam bathymetry as HMRG research survey Party Chief during cable-route, continental shelf EEZ, deep-ocean research and near-shore surveys.

2000 - 2002 **University of Hawaii**
Research Assistant

Using marine magnetic data to model absolute plate motion in the Pacific ocean.

1999 - 2000 **University of Hawaii**
Marine Geophysicist

Acquisition, processing and interpretation of side scan sonar, multibeam bathymetry, gravimeter and sub-bottom profiler data during cable-route and research surveys.

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PROFESSIONAL AFFILIATIONS AND COMMITTEE MEMBERSHIPS:

- Fellow of the Geological Society of London
- Member of the American Geophysical Union

COURSES / CERTIFICATES:

- Combined Offshore Survival & Emergency Courses
- (BOSIET and EURO including HUET / EBS)
- Norwegian Medical Certificate
- OGUK Offshore Medical Certificate

OTHER RELEVANT SKILLS:

- Extremely experienced with UNIX, LINUX, and Windows operating systems
- Maintenance of LBL navigation hardware
- Planning, deployment and operation of LBL navigation survey nets
- Experienced with various sonar acquisition and processing software packages including; MBSYSTEM, Saber, Caris, Hypack, ISS2000, MS2000
- Data processing and display using the Generic Mapping Tools package, MATLAB, Fledermaus, ArcGIS
- Processing of remote sensing data using RSI's ENVI data analysis package
- Data manipulation using C-Shell scripting
- Familiar with the C programming language

SCIENTIFIC RESEARCH PUBLICATIONS:

Wessel, P., Kroenke, L. W., Harada, Y., Sterling, N. A. K. (2006) The Hawaii-Emperor Bend: Clearly a Record of Global Plate Motion Changes (*In Prep.*)

Sterling, N. A. K., Kroenke, L. W., Wessel, P., Harada, Y. (2002) Pacific Rim and Pacific Plate Tectonism Associated With the Hawaiian Emperor Bend, *Eos Trans. AGU*, **83**

Wessel, P., Kroenke, L. W., Harada, Y., Sterling, N. A. K. (2002) The Hawaiian-Emperor Bend: A Record of Pronounced Change in Pacific Absolute Plate Motion, *Eos Trans. AGU*, **83**

Kroenke, L. W., Wessel, P., Sterling, N. A. K. (2002) Initiation of Subduction, Forced Changes in Absolute Plate Motion and the Development of Rifting: A Pacific Perspective, *Eos Trans. AGU*, **83**

Sterling, N. A. K., Kroenke, L. W., Wessel, P. (2002) Changes in Pacific Plate Motion in the Hotspot Reference Frame Since 125Ma, *Eos Trans. AGU*, **83**

Sterling, N. A. K., Kroenke, L. W., Wessel, P. (2000) Second Order Changes in Pacific Absolute Plate Motion Since 43Ma: Cause and Effect, *Eos Trans. AGU*, **81**

REFERENCES:

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