

CURRICULUM VITAE

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EDUCATION:

- 2008 **Ph.D., Geological Sciences**, The Ohio State University, School of Earth Sciences, Columbus OH, USA.
Ph.D. Dissertation: “Carbon Isotopes ($\delta^{13}\text{C}$ & $\Delta^{14}\text{C}$) and Trace Elements (Ba, Mn, Y) in Small Mountainous Rivers and Coastal Coral Skeletons in Puerto Rico.” Advisor: Andréa G. Grottoli
- 2003 **M.S., Marine Biology**, Nova Southeastern University, Oceanographic Center, Dania, FL, USA.
M.S. Thesis: “Macrobenthic Spatial Patterns and Community Structure on the Broward County, Florida (USA) Reefs.” Advisor: Bernhard Riegl
- 1999 **B.S., Marine Science**, Kutztown State University of Pennsylvania, Kutztown, PA, USA.
Senior Independent Research: “Photo Identification and Seasonal Migrations of Coastal Bottlenose Dolphins (*Tursiops truncatus*).” Advisor: Wendy L. Ryan

RESEARCH INTERESTS:

Ocean acidification related to modern global climate change. Emphasis on the effects of ocean acidification on corals and coral reefs.

Land-ocean carbon flux in tropical systems and the associated impacts on coral reef and coastal ocean biogeochemical processes, including climate feedbacks.

Coral reef geology and palaeoecology: Examination of fossil and modern coral reef systems in relation to their palaeo-environmental and climatic settings and palaeo-ecological function.

Tropical marine ecology, with emphasis on corals and coral reef communities.

Benthic habitat mapping using remote sensing techniques in tropical and sub-tropical environments.

RESEARCH & PROFESSIONAL EXPERIENCE:

- Sept. 2009 – Present Visiting Post-Doctoral Research Scientist, Lamont-Doherty Earth Observatory of the University of Columbia, Palisades, NY, USA. One year visiting scientist appointment to facilitate use of the Thermal Ionization Mass Spectrometry (TIMS) laboratory at LDEO in collaboration with Dr. Bärbel Hönlisch.
- Jan. 2009 – Present Post-Doctoral Research Fellow, United States Geological Survey, Florida Integrated Science Center, St. Petersburg, FL, USA. Two year research position will begin 2 January 2009. Research will focus on ocean acidification impacts on corals and coral reefs with emphasis on coral skeletal Boron isotope records as proxies of the history of modern pH changes in the surface waters of the Western Atlantic Ocean and Caribbean Sea regions.
- 2004 – 2008 Doctoral Student, The Ohio State University School of Earth Sciences & University of Pennsylvania. Investigating the carbon geochemistry of corals and natural waters in coastal systems with histories of drastic land-use change. Field work conducted in Puerto Rico. Andréa Grottoli, Principle Investigator (PI).

- 2006 – 2007 Research Assistant, Stable Isotope Biogeochemistry Laboratory, The Ohio State University School of Earth Sciences. Duties included: Cryogenic extraction of seawater DIC on vacuum line; Stable isotope pulse-chase coral bleaching experiment with field work in Kaneohe Bay, Hawaii; Separation and isotopic measurement of coral tissue and zooxanthellae from bleached and non-bleached corals. Andréa Grottoli, Principle Investigator (PI).
- 2002 – 2004 Research Associate, National Coral Reef Institute, Dania Beach, Florida, USA. Richard E Dodge and Bernhard Riegl, supervisors.
- Fall 2002 Caribbean and Atlantic Salinity Experiment (CASE) cruise participant. 2 week cruise aboard the R/V Suncoaster collecting coral cores across Eastern Caribbean to reconstruct recent climate and seawater chemistry. Peter Swart, Richard Dodge, and Terry Quinn, PI's.
- Summer 2002 Benthic specialist, Atlantic & Gulf Rapid Reef Assessment (**AGRAA**) survey & expedition, Bocas del Toro, Panama. Robert Ginsburg and Judith Lang, PI's.
- Summer 2001 Benthic specialist, Baseline Natural Resource Assessment of Coral Reefs: Vieques Is., Puerto Rico. Richard Dodge, David Gilliam, and Bernhard Riegl, PI's
- 2001 – 2002 Sea Turtle Specialist II, Broward County (FL) Sea Turtle Conservation Program. Curtis Burney, PI.

PUBLICATIONS:

PEER-REVIEWED JOURNAL ARTICLES

- Riegl B, **Moyer RP**, Walker BK, Kohler KE, Dodge RE, Gilliam DS. (2008) A tale of germs, storms, and bombs: Geomorphology and coral assemblage structure at Vieques (Puerto Rico) compared to St. Croix (U.S. Virgin Islands). *Journal of Coastal Research*, 24:1008-1021.
- Riegl B, **Moyer RP**, Morris LJ, Virnstein RW, Purkis SJ. (2005) Distribution and seasonal biomass of drift macroalgae in the Indian River Lagoon (Florida, USA) estimated with acoustic seafloor classification (QTCView, *Echoplus*). *Journal of Experimental Marine Biology and Ecology*. 326:89-104.
- Moyer RP**, Riegl B, Banks K, Dodge RE. (2005) Assessing the accuracy of acoustic seabed classification for mapping coral reef environments in South Florida (Broward County, USA). *Revista de Biología Tropical (Int. J. Trop. Biol.)* 53(Supp. 1):175-184.
- Riegl B, **Moyer RP**, Morris L, Virnstein R, Dodge RE. (2005) Determination of the distribution of shallow-water seagrass and drift algae communities with acoustic seafloor discrimination. *Revista de Biología Tropical (Int. J. Trop. Biol.)* 53(Supp. 1):165-174.
- Moyer RP**, Riegl B, Banks K, Dodge RE (2003) Spatial patterns and ecology of high-latitude benthic communities on a South Florida (Broward County, USA) relict reef system. *Coral Reefs*. 22(4): 447-464.

ARTICLES SUBMITTED OR IN PREPARATION FOR PEER-REVIEW

- Moyer RP**, Grottoli AG, Bauer JE (Submitted) Carbon isotope geochemistry of two small mountainous river catchments and adjacent coastal waters in Puerto Rico. Submitted to *Global Biogeochemical Cycles*, Dec. 2009.
- Moyer RP**, Grottoli AG (In Prep.) Coral skeletal dual isotope ($\delta^{13}\text{C}$ & $\Delta^{14}\text{C}$) record of the delivery of terrestrial carbon to the coastal waters of Puerto Rico. Planned submission to *Coral Reefs*.
- Moyer RP**, Grottoli AG, Olesik J (In Prep.) A multi-proxy record of terrestrial input to the coastal ocean using trace elements (Ba/Ca, Mn/Ca, Y/Ca) and carbon isotopes ($\delta^{13}\text{C}$ & $\Delta^{14}\text{C}$) in a coral skeletal core. Planned submission to *Palaeoceanography*.

Kilbourne, KH, **Moyer RP**, Quinn TM, Grottoli AG (In. Prep.) Testing coral-based tropical cyclone reconstructions: an example from Puerto Rico. Planned book chapter submission to Elsner, J. (Ed.) Proceedings of the Second International Summit on Hurricanes and Climate Change.

OTHER SCHOLARLY PUBLICATIONS (NON-PEER-REVIEWED)

Moyer RP, Riegl B, Dodge RE, Walker BK, Gilliam DS (2002) Acoustic Remote-Sensing of Reef Benthos in Broward County, Florida (USA). Proc. 7th Int. Conf. on Remote Sensing for Marine and Coastal Environments, 20–22 May 2002, Miami, FL. Proceedings published on CD-ROM, Veridian, Ann Arbor, MI.

Riegl B, Andrefouet S, **Moyer RP**, Walker BK (2002) Integration of Satellite Remote-Sensing of Subtidal Habitats with Vessel-Based Video Survey (Dubai, UAE, Arabian Gulf). Proc. 7th Int. Conf. Remote Sensing for Marine and Coastal Environments, 20–22 May 2002, Miami, FL. Proceedings published on CD-ROM, Veridian, Ann Arbor, MI.

Walker BK, Riegl B, Dodge RE, **Moyer RP**. (2002) Integration of Remotely Sensed Optical and Acoustic Data for the Delineation of Reef-Lines in Broward County, Florida (USA). Proc. 7th International Conference on Remote Sensing for Marine and Coastal Environments, 20–22 May 2002, Miami, FL. Proceedings published on CD-ROM, Veridian, Ann Arbor, MI.

THESES & DISSERTATIONS

Moyer RP (2008) Carbon Isotopes ($\delta^{13}\text{C}$ & $\Delta^{14}\text{C}$) and Trace Elements (Ba, Mn, Y) in Small Mountainous Rivers and Coastal Coral Skeletons in Puerto Rico. Ph.D. Dissertation, The Ohio State University, School of Earth Sciences, Columbus, OH. 260pp.

Moyer RP (2003) Macrobenthic Spatial Patterns and Community Structure on the Broward County, Florida (USA) Reefs. MS Thesis, Nova Southeastern University Oceanographic Center, Dania Beach, FL. 106 pp.

ABSTRACTS

Moyer RP, Helmle KH, Hönisch B, Chacko D, Linsley B (2010) Historical records of coral geochemistry and growth and their relationship to anthropogenic ocean acidification. 2010 Ocean Sciences Meeting, Portland OR, 22-26 February 2010.

Bauer JE, **Moyer RP**, Grottoli AG (2010) Carbon isotope geochemistry of two small mountainous river systems and adjacent coastal waters of the Caribbean. 2010 Ocean Sciences Meeting, Portland OR, 22-26 February 2010.

Kilbourne, KH, **Moyer RP**, Quinn TM, Grottoli AG (2009) Testing coral-based tropical cyclone reconstructions: an example from Puerto Rico, Second International Summit on Hurricanes and Climate Change, Corfu, Greece, Aegean Conferences Series, abstract 49, vol. 41, p. 69

Moyer RP (2009) Carbon isotopes and trace elements in small mountainous rivers and coastal coral skeletons in Puerto Rico. Proceedings of the 1st Marine Geoscience Leadership Symposium, Washington DC, 23-27 March 2009.

Moyer RP, Grottoli AG (2008) Corals as recorders of land-ocean carbon transport in Puerto Rico using stable carbon isotopes and Ba/Ca. 11th International Coral Reef Symposium, Ft. Lauderdale, Florida, USA. 7 – 11 July 2008.

Moyer RP, Grottoli AG (2008) Carbon Isotopes ($\delta^{13}\text{C}$ & $\Delta^{14}\text{C}$) in corals and adjacent natural waters as recorders of carbon transfer from land to the coastal ocean. Book of Abstracts, 2008 Ocean Sciences Meeting, Orlando, Florida, USA. 3 - 8 March 2008. p. 318. Available online at: <http://www.aslo.org/orlando2008/>

Moyer RP, Grottoli AG (2007) Stable- and Radiocarbon isotopes in corals and adjacent natural waters: Reconstructing land-use change and the land-ocean carbon cycle. Book of Abstracts. ASLO 2007 Aquatic Sciences Meeting, Santa Fe, New Mexico, USA. 4 – 9 February 2007. p. 126.

- Moyer RP**, Grottoli AG (2006) Stable carbon isotopes in coastal Puerto Rico corals and adjacent natural waters: Implications for land-ocean connectivity and land-use history. *Eos. Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS25J-14.
- Messing CG, **Moyer RP**, Shaul R, Dodge RE. (2005) Distribution of deep-water corals on the western margin of Little Bahama Bank, Bahama Islands. Program & Abstracts Book. 3rd International Symposium on Deep-Sea Corals Science and Management, Miami, Florida, USA. 28 November – 2 December 2005. p. 89.
- Moyer RP**, Riegl B, Dodge RE (2004) Acoustic Remote Sensing: A useful tool for producing maps of highly variable coral reef communities in southeast Florida (USA). Abstracts Volume, 10th International Coral Reef Symposium, Okinawa, Japan, 28 June – 2 July 2004.
- Messing CG, **Moyer RP**, Shaul R, Dodge RE. (2004) Distribution of deep-water corals on the southwestern margin of Little Bahama Bank, Bahama Islands. Abstracts Volume, 10th International Coral Reef Symposium, Okinawa, Japan, 28 June – 2 July 2004.
- Riegl B, **Moyer RP**, Morris L, Virnstein R, Dodge RE, Macintosh GS (2003) Determination of the distribution of shallow-water sea grass and drift algae communities with acoustic remote sensing. Abstracts Volume, 31st Scientific Meeting of the Association of Marine Laboratories of the Caribbean, Port of Spain, Trinidad and Tobago, 14-18 July 2003.
- Moyer RP**, Riegl B, Dodge RE. (2003) Accuracy assessment of acoustic remote sensing data from a south Florida (Broward County USA) coral reef system. Abstracts Volume, 31st Scientific Meeting of the Association of Marine Laboratories of the Caribbean, Port of Spain, Trinidad and Tobago, 14-18 July 2003.
- Messing CG, **Moyer RP**, Shaul R, Dodge RE. (2003) Benthic macrofaunal distributions on the southeastern Florida platform margin (65-200m). Abstracts Volume, 31st Scientific Meeting of the Association of Marine Laboratories of the Caribbean, Port of Spain, Trinidad and Tobago, 14-18 July 2003.
- Moyer RP**, Riegl B (2002) Determination of Different Benthic Reef Communities in Broward County, Florida (USA) Using Acoustic Remote-Sensing and *in situ* Techniques. Abstracts Volume, European Meeting of the International Society for Reef Studies (ISRS), University of Cambridge, England, 4th-7th September 2002.
- Moyer RP**, Riegl B, Dodge RE, Walker BK (2002) Acoustic Detection of Different Types of Reef Benthos in Broward County, Florida (USA). *Eos. Trans. AGU*, 83(4), Ocean Sciences Meet. Suppl., Abstract OS21F-115, 2002.
- Riegl B, **Moyer RP**, Andrefouet S, Dodge RE (2002) Reefal Carbonate Facies off Dubai, Arabian Gulf: Remote-Sensing with Ikonos Satellite Images and Ground-Truthing by Vessel-Based Video Survey. *Eos. Trans. AGU*, 83(4), Ocean Sciences Meet. Suppl., Abstract OS12Q-03, 2002.
- Dodge RE, Walker BK, Riegl B, **Moyer RP**, Gilliam DS (2002) Mapping of Holocene Reefs in Southeast Florida (USA) by Remotely Sensed Optical and Acoustic Data Together With *in situ* Techniques. *Eos. Trans. AGU*, 83(4), Ocean Sciences Meet. Suppl., Abstract OS21F-116.
- Moyer RP**, Ryan WL, Schofield TD (1999) Photo-Identification and Seasonal Migrations of Coastal Bottlenose Dolphins (*Tursiops truncatus*) in the Nearshore Waters off Wallops Islands, VA. Annual Meeting of the Commonwealth of Pennsylvania University Biologists (CPUB), Lock Haven University of Pennsylvania, April 15-18 1999.

FELLOWSHIPS AND GRANTS AWARDED:

- 2009 **National Oceanic and Atmospheric Administration Coral Reef Conservation Program.** Co-PI with Kevin Helmle, Dwight Gledhill, and Jim Hendee (NOAA-AOML). “Coral-based Proxy Records of Ocean Acidification: A Pilot Study at the Puerto Rico Test-bed Site”. \$64,500. 1-year award with potential for continuation beyond the initial year.

- 2008 **United States Geological Survey Mendenhall Post-Doctoral Research Fellowship.** Salary, Research Stipend, & Benefits. Two year position began 5 January 2009.
- The Ohio State University Council of Graduate Students Ray Travel Award.** \$513.00 USD
- 2007 **The Ohio State University Presidential Fellowship;** Tuition, Stipend, Travel, & Benefits.
- Geological Society of America (GSA), Graduate Student Research Grant.** \$2300.00 USD
- Friends of Orton Hall Fund Graduate Student Assistance Grant.** \$400.00 USD
- 2006 **American Association of Petroleum Geologists (AAPG) Foundation Grants in Aid Program, Ohio Geological Society Named Grant.** \$1250.00 USD
- Friends of Orton Hall Fund Graduate Student Assistance Grant.** \$400.00 USD
- American Geophysical Union Student Travel Grant.** \$600.00 USD to attend 2006 Ocean Sciences Meeting, Honolulu, Hawaii.
- 2004 **NSF GK-12 (U.Penn. Access Science) Graduate Fellowship.** Tuition & stipend.

TEACHING EXPERIENCE:

- 2005 – 2008 Graduate Teaching Assistant in the School of Earth Sciences at The Ohio State University. Responsible for teaching laboratory classes in the geological sciences to undergraduate students. Classes taught: Planet Earth (GS100); Intro. to Oceanography (GS206).
- 2004 – 2005 NSF Access Science Teaching Fellow, University of Pennsylvania - University City High School Partnership, Philadelphia PA.
- Winter & Fall 2003 Teaching Assistant, Geology and Evolution of Coral Reefs (Graduate class), Nova Southeastern University Oceanographic Center, Dania Beach, FL.
- Winter 2003 Invited Lecturer, Scientific Diving and Coral Reef Assessment (Graduate Class), Nova Southeastern University Oceanographic Center, Dania Beach, FL.
- Summer 2000 Teaching Assistant, Coral Reef Ecology, Roatan, Honduras (Undergraduate class), The Marine Science Consortium, Wallops Island, VA.
- 1999 – 2000 Pre-College Instructor (High School and Undergraduate classes), Marine Science Consortium, Wallops Island, VA.

AWARDS, HONORS & PROFESSIONAL MEMBERSHIPS:

- 2008 Spieker Book Award, The Ohio State University School of Earth Sciences; Awarded to the outstanding senior Earth Science doctoral student for the given academic year.
- 2006 Inducted as Full Member of Sigma Xi, International honor society for science and engineering research.
- Who's Who in America
- 2004 1st place, Faculty & Staff Division. Nova Southeastern University Technology Fair 2004. "Acoustic Remote Sensing of Coral Reefs".
- 1999 Simpson Award, Kutztown State University of Pennsylvania; Awarded to the graduate with highest GPA in physical sciences for the given academic year.
- Inducted into Gamma Theta Upsilon, Sigma Phi Chapter; International geographic honor society.

1995 Who's Who Among Students in American Universities & Colleges

Professional

Memberships: International Society of Reef Studies (**ISRS**). Member since 2002; American Geophysical Union (**AGU**). Member since 2005; Geological Society of America (**GSA**). Member since 2006. American Society of Limnology and Oceanography (**ASLO**). Member since 2001; Sigma Xi. Member since 2006; Society of Sedimentary Geology (**SEPM**). Member since 2007; Association of Marine Laboratories of the Caribbean (**AMLC**), Member since 2003; American Academy of Underwater Sciences (**AAUS**). Member since 2001; Gamma Theta Upsilon (**GTU**). Member since 1999;

OTHER PROFESSIONAL ACTIVITIES:

SCIENTIFIC MEETINGS ATTENDED:

- 2008 **11th International Coral Reef Symposium, Ft. Lauderdale, Florida.** 6 – 12 October, 2008. 1 oral presentation.
- 2008 Ocean Sciences Meeting, Orlando, Florida.** 2 – 7 March, 2008. 1 oral presentation.
- 2007 **ASLO 2007 Aquatic Sciences Meeting, Santa Fe, New Mexico.** 4 – 9 February, 2007. 1 oral presentation.
- 2006 **2006 Ocean Sciences Meeting, Honolulu, Hawaii.** 20-24 February, 2006. 1 Poster presentation.
- 2004 **10^h International Coral Reef Symposium, Okinawa, Japan.** 28 July-2 June, 2004. 2 Poster presentations.
- 2003 **31st Scientific Meeting of the Association of Marine Labs of the Caribbean, Trinidad & Tobago.** 14-18 July, 2003. 2 Poster presentations.
- 2002 **Symposio Arrecifes Coralinos: unidos por su conservacion.** (Symposium on Coral Reefs: united for their conservation), **Cayo Coco, Cuba.** 16-20 September, 2002. 1 Oral presentation.
- 7th International Conference on Remote Sensing for Marine and Coastal Environments. Miami, Florida.** 20-22 May, 2002. 2 Poster presentations.
- 2002 Ocean Sciences Meeting, Honolulu, Hawaii.** 11-15 February, 2002. 3 poster presentations.
- 1999 **Annual Meeting of the Commonwealth of Pennsylvania University Biologists (CPUB), Lock Haven University of Pennsylvania,** 15-18 April 1999. 1 Oral presentation.

INVITED LECTURES & SEMINARS:

- 15 October 2009 “Corals and the Carbon Cycle: Exploring climate change using coral-based proxy records”. Saint Petersburg College, Lunchtime Science Lecture Series.
- 27 May 2009 “Cool Kids Like Corals (and so should you)”. Palm Harbor University High School, First and second period Advanced Placement Environmental Sciences Classes.
- 17 October 2008 “Carbon Isotopes and Trace Elements in Small Mountainous Rivers and Coastal Coral Skeletons in Puerto Rico”. The Ohio State University School of Earth Sciences Division of Global and Environmental Change Semeinar Series.
- 24 January 2006 “Identifying Spatial Patterns in High-Latitude Coral Reefs and Investigating a Potential Forcing Factor”. The Ohio State University Department of Geological Sciences, Columbus Ohio. GS693.16 Sed/Strat/Paleo Brown Bag Seminar Series.
- 22 November 2004 “The Effect of Land-Use Change on the Coral Reefs of Puerto Rico: A Report From

- Initial Field Sampling 25 Sept.-10 Oct. 2004". The University of Pennsylvania, Department of Earth & Environmental Science. Brown Bag Seminar Series.
- 3 March 2004 "Identifying and Mapping Spatial Patterns in Subtropical Marine Communities: An Interdisciplinary Approach". The University of Pennsylvania, Department of Earth & Environmental Science. Brown Bag Seminar Series.
- 6 March 2002 "Coral Reef Habitat Mapping and Assessment: An Integration of Scientific Diving and Remote Sensing Techniques". Nova Southeastern University Oceanographic Center, Dania Beach, FL. Graduate Class in Scientific Diving and Assessment Techniques.

REVIEWER FOR:

Funding Agencies:

- Caribbean Marine Research Center (CMRC)
- NOAA National Undersea Research Program (NURP)

Scientific Journals:

- Bulletin of Marine Science
- Caribbean Journal of Science
- Coral Reefs
- Revista de Biología Tropical (Int. Journal of Tropical Biology)

WORKSHOPS & TRAINING:

- 2009 Marine Geoscience Leadership Symposium**, Washington D.C., USA. 23 – 27 March 2009. Invitation-only workshop for early career marine geoscientists sponsored by the Consortium for Ocean Leadership.
- 2007 Preparing for an Academic Career in the Geosciences: Workshop for Graduate Students and Post-Doctoral Fellows**, University of Wisconsin, Madison, WI, USA. 2 – 5 August 2007. Workshop sponsored by the National Science Foundation.
- Radiocarbon in Ecology and Earth System Science**, University of California-Irvine, Irvine, CA, USA. 8 – 14 July 2007. Workshop partially sponsored by the Keck Foundation.
- 2002 Florida System for Classification of Habitats in Estuarine and Marine Environments (SCHEME) Workshop**; Coral/Hardbottom Focus Group. Florida Marine Research Institute, St. Petersburg, FL, USA. 25 July 2002. Workshop sponsored by the Florida Fish and Wildlife Conservation Commission.
- Multivariate Statistics for Ecologists Workshop**. Florida Marine Research Institute, St Petersburg, FL, USA, 5 – 8 February 2002. Companion workshop for PRIMER-E multivariate statistic software users.

COMMITTEES & APPOINTMENTS:

Graduate Committee Student Representative. The Ohio State University School of Earth Sciences. **2006-2007**

RELATED SKILLS:

Knowledge and experience using Finnigan Stable Isotope Ratio Mass Spectrometers (MAT252, DeltaPlus), with multi-port gas inlet, Kiel automated carbonate device, and Elemental Analyzer capabilities.

Knowledge and experience using Finningan and Perkin-Elmer Inductively Coupled Plasma Mass and Optical Emission Mass Spectrometers (ICP-MS, ICP-OES) with aerosol nebulizer and laser ablation interfaces for sample introduction.

Ability and experience extracting CO₂ gas (DIC) from natural water samples (fresh & marine) using a cryogenic gas-capture method on a large vacuum-line and manifold system. Skills include vacuum line operation, maintenance, and minor repair plus gas torch operation.

Knowledge and experience using Thermo-Finnigan Triton Thermal Ionization Mass Spectrometer in negative ionization mode in order to measure stable boron isotopes in marine carbonates.

SSI Certified Master SCUBA diver. 300+ logged dives, 7 specialty certifications including Nitrox and Stress and Rescue. Open Water Certified since 1999.

Excellent computing skills with working knowledge of programming-based applications (Matlab, IDL), Microsoft Office Suite, Statistics software (Statistica, Biomstat, JMPin), GIS applications (ArcView 3.x, ArcGIS 8.x, ER Mapper, ENVI and ERDAS Imagine), and basic HTML-based web design.

Knowledge and experience using hydraulic underwater drilling equipment for collecting both live coral and consolidated limestone cores.

Experience with hydrographic surveying and habitat mapping using ROV and acoustic techniques.

Familiar with various *in situ* assessment and identification techniques for tropical marine fishes and benthic invertebrates.

Working knowledge of small gas and diesel-powered vessels, including operation, maintenance, and repair.