JOHN KERFOOT
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EDUCATION

Bachelor of Arts, Aquatic Biology, University of California at Santa Barbara **1996**
Master of Arts, Biological Oceanography, University of California at Santa Barbara **2000**

TEACHING EXPERIENCE

Graduate Research Assistant, University of California Santa Barbara 1998 – 2000
Responsible for the day to day operation of an oceanographic research laboratory in the Department of Ecology, Evolution and Marine Biology. Technical duties included the maintenance and repair of laboratory and field equipment associated with the study of oceanic primary production and marine bio-optical properties. Experimental research focused on measurements of phytoplankton spectral absorption, fluorescence excitation, pigmentation and primary production for laboratory based dinoflagellate studies and oceanographic field studies (**SUPACC**, Solar Ultraviolet Productivity Algorithms for Coastal California).

Teaching Assistant, University of California Santa Barbara 1999
Department of Ecology, Evolution and Marine Biology
Taught undergraduate level introductory biology laboratories covering topics including systematics of mammals, plants and microbiological organisms. Also introduced students to proper laboratory safety techniques.

Teaching Assistant, University of California Santa Barbara 1997
Led discussion sessions for an undergraduate introductory marine biology course.

RESEARCH AND FIELD EXPERIENCE

CalCOFI, *R/V New Horizon* (18 days) 1997
Assisted in the shipboard collection of hydrographic data for the California Co-Operative Fisheries Investigation. Duties included CTD deployments, plankton net deployments and other general deck operation deployments and recoveries.

SUPACC, *R/V Point Sur* (70 days) 1998
Solar Ultraviolet Productivity Algorithms for Coastal California
Graduate student researcher whose duties included the set up and supervision of shipboard facilities to measure rates of marine primary production in the presence and absence of solar ultraviolet radiation during four seasonal cruises into the Santa Barbara Channel. Also required to prepare and analyze radiolabled seawater samples using liquid scintillation methods and assisted in the deployment and retrieval of deck mounted equipment as well as CTD rosettes.

NAVO, Naval Oceanographic Office, *R/V Point Sur* (16 days) **1999**
Assisted in CTD rosette deployment, retrieval and operation. Also provided help with the deployment and retrieval of gravity coring equipment and plankton nets for a joint Navy and CalCOFI cruise.

HyCODE, *R/V Walford*, (28 days) **2001**
Served in a technical support role for the bio-optical portion of Hyperspectral Coastal Ocean Dynamics Experiment (HyCODE 2001). The goal of the HyCODE experiments is to utilize hyperspectral imagery to improve understanding of the diverse processes controlling inherent optical properties (IOPs) in the coastal ocean. The program also develops operational ocean color algorithms in both the optically-shallow ocean and the optically-deep ocean. Primarily responsible for the deployment, maintenance and operation of a suite of bio-optical instruments (MODAPS, Wetlabs ac-9, CTD, Hobilabs HS-6, and Hobilabs a-B/c-B meters) during daily cruises into the coastal waters off southern New Jersey. Also assisted with data product analysis, including post-processing and web posting. Shore duties included the operation of a marine laboratory and supervision of undergraduate students working on individual research projects.

ECOHAB: Florida Leg, *R/V Suncoaster* (8 days) **2001**
Served as the marine technician during the Florida leg of the EcoHAB cruises. Responsibilities included the mounting, deployment, operation, and maintenance of a suite of bio-optical instrumentation (MODAPS, Wetlabs ac-9, CTD, Hobilabs HS-6, Wetlabs HiStar, and Hobilabs a-β/c-β meters) to monitor the development and persistance of a toxic harmful algal bloom.

PROFESSIONAL PRESENTATIONS AND PUBLICATIONS

American Society of Limnology and Oceanography **1997**
Santa Fe, New Mexico
Prezelin, B.B., C. Mengelt, and **J.M. Kerfoot**
"Preliminary Assessment of Physical-Biological Coupling Between Water Column Characteristics and Phytoplantkon Community Composition Within the LTER Region of the Southern Ocean (January 1993)" – presented poster.

American Society of Limnology and Oceanography **1999**
Santa Fe, New Mexico
Kerfoot, J.M., J.J. Gorga, and B.B. Prezelin
"Dinoflagellate Growth Responses to Outdoor Culturing in the Presence and Absence of Solar Ultraviolet Radiation" – presented poster

American Society of Limnology and Oceanography **1999**
Santa Fe, New Mexico
McGovern, T.M., B.B. Prezelin, **J.M. Kerfoot**, J.J. Gorga and J. Robidart
"In situ Spectral Response of Surface Phytoplankton Communities to Regional and Seasonal Variability in Solar Radiation in Coastal California"

Stratospheric Photochemistry and Related Climate (SPARC) **2000**
Playa Del Mar, Argentina
B.B. Prezelin, J. Robidart, T.M McGovern, **J.M. Kerfoot**, and M. Gomez
"Spectral Response of in situ Phytoplankton Communities to Regional, Seasonal and Daily Variability in Solar Radiation"

Masters Thesis **2000**
"Growth and Photophysiological Responses of the Dinoflagellate *Heterocapsa pygmaea* to Outdoor Culturing in the Presence and Absence of Solar Ultraviolet Radition

Fall Meeting, American Geophysical Union **2001**
San Francisco, California
M. Crowley, L.A. Kahl, O. Schofield, **J.M. Kerfoot**, R. Arnone, S. Ladner, K. Prosad, M. A. Moline, T. Bergman, S. Glenn
"Comparison of SeaWIFS, FY-1C and Oceansat to *In Situ* IOP Measurements in the Coastal Ocean"

Ocean Sciences Meeting, American Geophysical Union **2002**
Honolulu, Hawaii
Kerfoot, J.M., K. Mahoney, G. Kirkpatrick, S. Lohrenz, M. Moline and O. Schofield
"Vertical Migration of a Toxic *Karenia brevis* Red Tide and the Impact on Remote Sensing Reflectance"