

L. Alex Kahl

Postdoctoral Associate
Rutgers University
Institute of Marine and Coastal Sciences
71 Dudley Rd.
New Brunswick, NJ 08901
1+ 732 932 6555 x.332

alex@marine.rutgers.edu
<http://marine.rutgers.edu/~alex/>

RESEARCH INTERESTS: Understanding how phytoplankton physiology affects the processes and mechanisms of phytoplankton aggregation and the subsequent deposition/sequestration of organic carbon to the seafloor was the central focus of my PhD. thesis. Currently, I am looking into polar primary production and monitoring polar environments using autonomous technologies. Broader academic interests also include anthropogenic carbon sequestration, and renewable/sustainable energy, climate change education/outreach, and international coordination in dealing with these issues.

EDUCATION

2002 – 2008	PhD. Oceanography, Rutgers University, New Brunswick, NJ
1997 – 2001	B.S. Hydrologic Sciences, University of California, Santa Barbara
1997 – 2001	B.A. Geography, University of California, Santa Barbara

EMPLOYMENT

2008 - present	Postdoctoral Associate, Rutgers University / Antarctic LTER
2006 - 2008	Webmaster for the Rutgers Energy Institute
2002 – 2008	Graduate/ Teaching Assistant, Rutgers University
2001 (summer)	Research Experience for Undergraduates Fellow, Rutgers University
1999 – 2001	Undergraduate Intern, Institute for Computational Earth System Science, UC Santa Barbara

COURSES TAUGHT

Spring 2008	Oceanography (GEO 202, Princeton University), Guest Lecturer
Spring 2006	Oceanographic Methods and Data Analysis (Rutgers University), Teaching Assistant
Spring 2005	Ocean Science Inquiry (Rutgers University), Co-instructor
Spring 2005	Oceanographic Methods and Data Analysis (Rutgers University), Teaching Assistant

FIELD WORK

October 2008 - present	Sampling/ AUV Deployment	Antarctic Peninsula Long-Term Ecological Research	Palmer Station, Antarctica
May 2007	AUV Deployment	Multidisciplinary University Research Initiative (MURI)	Martha's Vineyard, MA
July 2006	AUV Deployment	Rim of the Pacific Exercises (RIMPAC)	Honolulu, HI
June 2006	AUV Deployment	Rim of the Pacific Exercises (RIMPAC)	Pacific Missile Range Facility, HI
April 2006	10 day cruise, RV Oceanus	Lagrangian Transport & Transformation Experiment (LaTTE)	Mid Atlantic Bight
September 2005	AUV Deployment	Coupled Boundary Layers/ Air-Sea Transfer (CBLAST)	Martha's Vineyard, MA
April 2005	AUV Deployment	Mine Warfare Readiness and Effectiveness Measuring (MIREM)	Norfolk, VA
Summer 2001	Daily small boat cruises	Long-term Ecosystem Observatory (LEO-15)	Tuckerton, NJ

ACADEMIC INVOLVEMEENT

Fall 2007	Climate Change Panelist for the Rutgers Ecological Change Coalition
2007 - 2008	Convener of the Rutgers Oceanography Invited Speaker Series
2006-2008	Committee for the Graduate Program in Oceanography's Annual Distinguished Speaker
2006 - 2008	Rutgers Energy Institute advisory committee, student representative
Summer 2005	Research Experience for Undergraduates Summer Fellowship mentor to 12 students
2005 – 2008	Webmaster for Rutgers Graduate Program in Oceanography
2003 - 2008	Mentor to Rutgers undergraduate research assistants: Mike Garzio, Dierdre Sayegh, Cristina Haskins, John Hencken, Jen Davis, Devon McMahon
2003 - 2005	National Ocean Science Bowl judge and volunteer for regional competition.

PUBLICATIONS

- Kahl, L.A.**, O. Schofield, M. Garzio, P.G. Falkowski, J. Song. 2008. *On the nature of phytoplankton exudate and its role in export efficiency*. (submitted)
- Schofield, O., R. Chant, B. Cahill, R. Castelao, D. Gong, **L.A. Kahl**, J. Kohut, M. Montes-Hugo, R. Ramadurai, P. Ramey, Y. Xu, S.M. Glenn. 2008. *The decadal view of the Mid-Atlantic Bight from the COOLroom: Is our coastal system changing?* . *Oceanography* 21(4): 108-117.
- Kahl, L.A.**, A. Vardi, O. Schofield. 2008. *Effects of phytoplankton physiology on export flux*. *Marine Ecology Progress Series*, 354: 3 – 19.

SCHOLARLY CONTRIBUTIONS

- Kahl, L.A.**, A. Vardi, O.Schofield. 2008. *Export Flux Variability Due to Changes in Phytoplankton Physiology*, 2008 Ocean Sciences Meeting, 2-7 March 2008 in Orlando, Florida
- Kahl, L.A.**, O. Schofield. 2006. *Using Settling Velocity to Model Particle Stickiness in a Mesocosm*, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS26A-17.
- Schofield, O., L. Bowers, G. Fotti, S. Glenn, D. Gong, **L.A. Kahl**, J. Kohut, M. Oliver, J. Wilkin, R. Chant. 2006. *Studying the Dynamics and Biological Significance of the Hudson River Using an Ocean Observatory*. Marine Technology Society, Boston Meeting, September 2006.
- Crowley, M., **L.A. Kahl**, O. Schofield, K. Prasad, C. Orrico, S. Glenn. 2002. *Comparison of Satellite and In Situ Chlorophyll-a Measurements in Coastal Upwelled Waters*. 2002 Ocean Science Meeting, Honolulu, HI. Abstract OS12J-11, 2002.
- Kahl, L.A.**, M. Crowley, O. Schofield, R. Arnone, J. Kerfoot, T. Bergmann, C. Orrico, S. Blackwell. 2002. *Comparisons of Satellite Derived Optical Properties in In Situ Coastal Measurements at LEO 2001*. 2002 Ocean Sciences Meeting, Honolulu, HI. Abstract OS12J-12, 2002.
- Kahl, LA**, 2001. *Comparison of Satellite and In Situ Chlorophyll- Measurements in Coastal Upwelled Waters*. UC Santa Barbara Environmental Studies Senior Thesis. Advisor: Dr. Dave Siegel.
- Crowley, M., **L.A. Kahl**, K. Prasad, R. Arnone, T. Bergmann, O. Schofield, S. Ladner, M. Moline, S. Glenn. 2001. *Comparisons of SeaWiFS, MODIS, OceanSat, FY1-C, and PHILLS to In Situ Measurements in the Coastal Ocean*. *Eos Trans. AGU*, 82(47).
- Kahl, L.A.**, E.A. Fields. 2000. *Automated SeaWiFS Delayed Mode Playback*. SeaSpace 10th Annual Terascan Users Conference. La Jolla, CA. October 17, 2000.