

Abigail Swann

CONTACT INFORMATION	University of California, Berkeley Dept. of Earth & Planetary Science 307 McCone Hall #4767 Berkeley, CA 94720-4767 USA	<i>Voice:</i> (510) 643-4248 <i>Fax:</i> (510) 643-9980 <i>E-mail:</i> aswann@atmos.berkeley.edu <i>Web:</i> www.atmos.berkeley.edu/~aswann
RESEARCH INTERESTS	Carbon cycle dynamics (specifically drought-carbon cycle interactions), consequences of land use change, climate variability, and the interaction between climate variability and society.	
EDUCATION	University of California, Berkeley, California USA PhD. Candidate, Earth and Planetary Science (expected graduation date June 2010). <ul style="list-style-type: none">• Thesis Topic: Water and carbon cycle interactions during drought in the 21st century.• Advisor: Inez Fung Columbia University, New York, New York USA M.A. Earth and Environmental Sciences, 2005. <ul style="list-style-type: none">• Masters Topic: Dynamical controls on deep cumulus convection in the tropics.• Advisors: Adam Sobel, Mark Cane, Tony Del Genio University of California, Berkeley, California USA B.A. Earth and Planetary Science (Atmospheric Science), 2003. <ul style="list-style-type: none">• Senior Thesis Topic: Seasonal Variations in Night-time NEE from EUROFLUX.• Advisor: Inez Fung	
HONORS AND AWARDS	IGERT Fellow in Applied Mathematics and Earth Science at Columbia University, 2003-2005 Graduated with Honors, University of California 2003 All-America Sportsman of the year, Inter-Collegiate Sailing Association 2003	
PUBLICATIONS AND POSTERS	Swann, A., A. H. Sobel, S. E. Yuter, and G. N. Kiladis (2006), Observed radar reflectivity in convectively coupled Kelvin and mixed Rossby-gravity waves, <i>Geophys. Res. Lett.</i> , 33, L10804, doi:10.1029/2006GL025979. Swann, A., Fung, I., 2006: Assessment of Models of Respiration using Night-time NEE Data from the EUROFLUX Network. (in prep) Swann, A., Sobel, A. H., Yuter, S. E., Kiladis, G. N., 2006: Precipitation Structures and Atmospheric Waves over the Tropical Ocean. Poster. AMS Tropical Meteorology and Hurricanes meeting, Monterey CA.	

Swann, A., Fung, I., 2003: Seasonal Variations in Night-time NEE from EUROFLUX. Poster. AGU Fall Meeting, San Francisco.

ACADEMIC
EXPERIENCE

University of California, Berkeley, California USA

Graduate Student September, 2005 – present
Includes research and coursework towards a PhD. Advanced to candidacy
October 2006.

Graduate Student Instructor Spring Semester 2007
Undergraduate upper division class “Introduction to Marine Geochemistry” (EPS 103). Responsible for assisting students with assignments, consultation of exam questions and grading of assignments, exams, and term papers.

Columbia University, New York, New York USA

Graduate Student September, 2003 – July 2005
Includes Masters level research and coursework.

Co-Chair June 2004 – May 2005
Graduate Student Committee

Instructor/Teaching Assistant Fall Semester 2004
Graduate level class entitled "Quantitative Models for Climate Sensitive Human Natural Systems." Responsible for developing labs from datasets and concepts provided by the instructors (first time class had been taught), leading a computer-based laboratory section, grading assignments and projects, and office hours.

University of California, Berkeley, California USA

Research Assistant June 2002 – August 2002
Analyzed data using Matlab, Unix for Inez Fung.

OTHER
EXPERIENCE

University of California, Berkeley, California USA

Sailing Team Member/Officer September 1999 – June 2003

- Acted as Captain, Women’s Team Captain, Secretary and Treasurer
- Increased coed team size from 10 to 30 members
- Increased women’s team size from 2 to 15 members
- Organized donation and registration of a van and trailer for team use.
- Facilitated the purchase of new boats.
- Maintained a positive relationship with community sailing center for team use.

COMPUTER
SKILLS

Operating Systems: Macintosh OS X, Windows and Unix

Data Analysis: MATLAB, JMP, Excel