

## Peter Gaube

### Applied Physics Laboratory

Department of Air-Sea Interaction and Remote Sensing (AIRS)  
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### EDUCATION

*Doctorate of Philosophy, Oceanography*  
Oregon State University  
College of Earth, Ocean and Atmospheric Sciences, Corvallis , OR November 2012

*Master of Science, Physical Oceanography*  
Nova Southeastern University  
Oceanographic Center, Dania Beach, FL June 2007

*Bachelor of Arts, Ecology and Evolutionary Biology*  
University of Arizona  
Department of Ecology and Evolutionary Biology, Tucson, AZ May 2003

### RESEARCH EXPERIENCE AND ACADEMIC EMPLOYMENT

*Applied Physics Lab* June 2015 – Present  
Senior Research Scientist/Engineer

*Woods Hole Oceanographic Institution* December 2012 – June 2015  
Postdoctoral Scholar

*Oregon State University* July 2007 – November 2012  
Graduate Research Assistant, Dr. Dudley B. Chelton, College of Earth, Ocean and Atmospheric Sciences

*Nova Southeastern University* August 2004 – June 2007  
Graduate Research Assistant, Dr. Sean C. Kennan, Department of Oceanography

*University of Arizona* January 2003 – July 2004  
Lab Technician, Dr. Brian J. Enquist, Department of Ecology and Evolutionary Biology

*Smithsonian Tropical Research Institute* May 2003 – July 2003  
Research Diver and Summer Fellow, Bocas del Toro, Panama

## TEACHING EXPERIENCE

- Woods Hole Oceanographic Institution* May 2013  
Guest Lecturer, 12.823 Modeling Biology and Physics of the Ocean.  
Drs. Dennis J. McGillicuddy Jr. and Glenn R. Flierl
- Oregon State University* June 2012 - June 2015  
Guest Lecturer, Ecology and Biogeochemistry core course  
Drs. Miguel Goni and Evelyn Sherr
- Nova Southeastern University* August 2004 – June 2007  
Teaching Assistant, Introduction to Physical Oceanography  
Drs. Sean C. Kennan and Alexander Soloviev
- International Game Fish Association* March 2005 – May 2007  
Education Program Coordinator

## PUBLICATIONS

### Refereed Journal Articles

Gaube, P. and McGillicuddy, D.J.

**The Influence of Gulf Stream Eddies and Meanders on Near-Surface Chlorophyll.**  
*Deep Sea Research 1 - submitted August, 2015*

Song, H., Marshall, J., Gaube, P., and McGillicuddy, D.J.

**Anomalous anthropogenic gas uptake by mesoscale eddies in the Southern Ocean.**  
*Journal of Geophysical Research: Oceans*, 2015. doi:10.1002/2014JC010292

Gaube, P., McGillicuddy, D.J., Chelton, D.B., Behrenfeld, M.J., and Strutton, P.G.

**Regional Variations in the Influence of Mesoscale Eddies on Near-Surface Chlorophyll.**  
*Journal of Geophysical Research: Oceans* (119), 2014. doi:10.1002/2014JC010111

Gaube, P., Chelton, D.B., Samelson, R.M., Schlax, M.G. and O'Neill, L.W.

**Satellite Observations of Mesoscale Eddy-Induced Ekman Pumping.**  
*Journal of Physical Oceanography* (45), 2015. doi:10.1175/JPO-D-14-0032.1

Gaube, P., Chelton, D.B., Strutton, P.G., and Behrenfeld, M.J.

**Satellite Observations of Chlorophyll, Phytoplankton Biomass and Ekman Pumping in Non-linear Mesoscale Eddies.**

*Journal of Geophysical Research: Oceans* (118), 2013. doi:10.1002/2013JC009027

Chelton, D.B., Gaube, P., Schlax, M.G., Early, J.J. and Samelson, R.M.

**The Influence of Nonlinear Mesoscale Eddies on Near-Surface Oceanic Chlorophyll.**  
*Science* (334), 2011. doi:10.1126/science.1208897.

Hurtado, L.A., Frey, M., Gaube, P. and Markow, T.A.

**Geographical Subdivision, Demographic History And Gene Flow In Two Sympatric Species Of Intertidal Snails, *Nerita Funiculata* and *Nerita Scabricosta*, from The Tropical Eastern Pacific.**  
*Marine Biology* (151), 2007 doi:10.1007/s00227-007-0620-5

*Conference Proceedings*

Chelton, D. B., Gaube, P. and Samelson, R. M.

**Self-Induced Ekman Pumping Over Oceanic Mesoscale Eddies.**

*Proceedings of 20 Years of Progress in Radar Altimetry Symposium, Venice Italy, 2012*

Gaube, P., Chelton, D. B., Strutton, P. G. and Behrenfeld, M. J.

**The Response of Phytoplankton to Eddy-Induced Ekman Pumping in the Interiors of South Indian Ocean Eddies.**

*Proceedings of 20 Years of Progress in Radar Altimetry Symposium, Venice Italy, 2012*

*Thesis*

Gaube, P.

**Satellite Observations of the Influence of Mesoscale Ocean Eddies on Near-Surface Temperature, Phytoplankton and Surface Stress.**

*Ph.D Thesis (Oregon State University), 197 pages, 2012*

*Manuscripts in Preparation*

Gaube, P., Barcelo, C., McGillicuddy, D.J.

**The Use of Mesoscale Eddies by Juvenile Loggerhead Sea Turtles.**

In preparation for the *Marine Ecology Progress Series*.

Gaube, P., Thorrold, S.R., Braun, C. D., McGillicuddy, D.J., Lawson, G., and Skomal, S.B.

**The Use of Mesoscale Eddies and Gulf Stream Meanders by White Sharks *Carcharodon carcharias*.**

In preparation for *Geophysical Research Letters*.

Gaube, P., McGillicuddy, D.J., and Long, M.

**Global variations in the influence of eddies on upper ocean chlorophyll: observations and a model**

In preparation for *Ocean Modeling*.

**PRESENTATIONS**

*Ocean Ecology Seminar Series*

June 2015

Oregon State University

**Physical/Biological Interaction at the Oceanic Mesoscale: From Phytoplankton to White Sharks**

*Applied Ocean Physics and Engineering Departmental Seminar Series*

June 2014

Woods Hole Oceanographic Institution

**Satellite Observations of Mesoscale Eddy-Induced Ekman Pumping**

*Applied Physics Laboratory Seminar Series*

April 2014

University of Washington

**Satellite Observations of Mesoscale Eddy-Induced Ekman Pumping**

*Climate, Atmospheric Sciences, Physical Oceanography Seminar Series*

March 2014

Scripps Institution of Oceanography

**Satellite Observations of Mesoscale Eddy-Induced Ekman Pumping**

*Ocean Sciences Meeting*

February 2014

Honolulu, HI

**Regional Variations in the Influence of Mesoscale Eddies on Near-Surface Chlorophyll**

- Physical Oceanography Departmental Seminar Series* June 2013  
Woods Hole Oceanographic Institution  
**Satellite Observations of Mesoscale Eddy-Induced Ekman Pumping**
- 45th International Liège Colloquium on Ocean Dynamics* May 2013  
Université de Liège  
**Regional Variations of the Influence of Mesoscale Eddies on Near-Surface Chlorophyll**
- Ocean Sciences Meeting* February 2012  
Salt Lake City, UT  
**The Influence of Nonlinear Mesoscale Eddies on Oceanic Chlorophyll**
- American Geophysical Union Annual Meeting* December 2011  
San Francisco, CA  
**Eddy-Induced Ekman Pumping from Sea-Surface Temperature and Surface Current Effects**
- Applied Ocean Physics and Engineering Departmental Seminar Series* November 2011  
Woods Hole Oceanographic Institution  
**The Influence of Nonlinear Mesoscale Eddies on Oceanic Chlorophyll**
- NASA Ocean Surface Topography Science Team Annual Meeting* October 2011  
San Diego, CA  
**Combining Satellite Observations with ARGO Profiles to Investigate Bio/Physical Interaction in Oceanic Mesoscale Eddies**
- European Geophysical Union Annual Meeting* March 2011  
Vienna, Austria  
**The Influence of Nonlinear Mesoscale Eddies on Oceanic Chlorophyll**
- Ocean Sciences Meeting* February 2010  
Portland, OR  
**Satellite Observations of SST, Wind Speed and Vorticity Perturbations by Mesoscale Ocean Eddies**
- American Meteorological Society Annual Meeting* January 2009  
Phoenix, AZ  
**Preliminary Observations of Mesoscale Ocean Eddies in the VOCALS Region**

#### FELLOWSHIPS AND AWARDS

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| Postdoctoral Scholar                   | <i>Woods Hole Oceanographic Institution</i>    |
| Outstanding Student Paper Award Winner | <i>2012 Ocean Sciences Meeting</i>             |
| Outstanding Student Paper Award Winner | <i>2011 AGU Annual Meeting</i>                 |
| Summer Research Fellow                 | <i>Smithsonian Tropical Research Institute</i> |

#### ACADEMIC REFERENCES

Dr. Dudley Chelton  
541-737-4017  
chelton@coas.oregonstate.edu

Dr. Dennis McGillicuddy  
508-289-2683  
dmgillicuddy@whoi.edu

Dr. Pete Strutton  
(03) 6226 8595  
peter.strutton@utas.edu.au

Dr. Michael Behrenfeld  
541-737-5289  
behrenfm@science.oregonstate.edu