

## **JENNIFER BOSCH**

Coastal Ocean Observation Lab  
Rutgers, The State University of New Jersey  
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### **Education:**

#### **M.S., Oceanography**

University of Maine, School of Marine Sciences, Orono, ME  
Anticipated graduation: December 2002

**B.S., Environmental Science** with an option in Marine Science  
**Natural Resource Management** with an option in Ecology and Evolution  
Rutgers University, Cook College, New Brunswick, NJ  
January 2000

### **Professional Experience:**

**Director of Remote Sensing Lab:** Rutgers University Coastal Ocean Observation Lab, Institute of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ (12/02-present)

- Oversees all aspects of remote sensing research within the Lab
- Maintains SeaSpace satellite ground station
- Maintains pages of the COOL web site which makes remotely sensed data available to the public
- Increases public awareness of real-time data sets by coordinating web based activities and public presentations
- Works with the media and national weather service during storm events

**Graduate Assistant:** Satellite Oceanography Data Laboratory, University of Maine - School of Marine Sciences, Orono, ME (9/00-11/02)

- Master's Thesis – "*Satellite-measured Variability of Chlorophyll within the Upwelling Zone near Heceta Bank, Oregon*", funded by U.S. GLOBEC Program
- Navigation and processing of AVHRR satellite imagery using TeraScan software
- Digital image processing and spatial statistical analysis using IDL

**Research Technician:** Rutgers University Marine Field Station, Tuckerton, NJ (4/99-8/99)

- Participated in the field collection of larval and juvenile fish species
- Identified both larval and juvenile fish species in field and laboratory
- Conducted independent research project funded by Sea Grant (Bosch, 1999a,b)

**Research Technician:** Rutgers University Coastal Ocean Observation Lab, Institute of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ (5/96-8/98)

- AVHRR satellite imagery analysis – detection of upwelling fronts, eddies and warm water jets; declouding and assimilation of imagery for upwelling model, forecasts and predictions
- Took part in physical and biological offshore research cruises and mooring deployments
- Conducted public education and outreach tours of LEO-15 project facilities

### **Computer Skills:**

Computer Systems- Unix, Linux, Windows OS  
Digital and Numerical Analysis- SeaDAS, ENVI, TeraScan XVU, Computer Programming (IDL), SYSTAT, Arc/Info and ArcView GIS

**Additional Experience:**

SeaBird CTDs, YSI Data Loggers, ADCPs, Small boat operation, Scientific Proposal Writing, PADI Dive Certificate

**Field Research Experience:**

**1997-1999**, Ship-based research experience (< 50 ft) in estuarine, continental shelf and near-shore environments, R/V Caleta, Arabella, and Northstar

**2001**, Ship-based research experience, Coastal Ocean Advances in Shelf Transport (COAST) Study – Oregon State University, College of Oceanic and Atmospheric Sciences. R/V Thomas G. Thompson

**Research Projects and Publications:**

Bosch, J.A. (2002) *Satellite-measured chlorophyll variability within the upwelling zone near Heceta Bank, Oregon*. Third Annual Graduate Research Symposium. School of Marine Sciences, University of Maine, Ira C. Darling Marine Science Center, May 2002, Walpole, Maine USA. (Oral Presentation).

Bosch, J.A., Thomas, A.C., Strub, P.T. (2002) *Satellite-measured chlorophyll variability within the upwelling zone near Heceta Bank, Oregon*. ASLO/AGU Meeting, February 2002, Honolulu, Hawaii, USA. (Poster Presentation).

Bosch, J.A., Thomas, A.C. (2001) *Satellite-measured chlorophyll variability within the upwelling zone near Heceta Bank, Oregon*. North East Pacific GLOBEC PI Meeting, November 2001, Seattle, Washington USA. (Poster Presentation).

Bosch, J.A. (2001) *Chlorophyll Variability within the Upwelling Zone near Heceta Bank, Oregon*. Second Annual Mini-Symposium, School of Marine Sciences, University of Maine, Ira C. Darling Marine Science Center, May 2001, Walpole, Maine USA. (Poster Presentation).

Bosch, J.A. (1999) *Effects of summer storms and upwelling on the abundance of larval fish species in a southern New Jersey estuary*. Simposio de Iniciacao Cientifica da USP, University of Sao Paulo, November 1999, Sao Paulo, Brazil (Poster Presentation).

Bosch, J.A. (1999) *Effects of summer storms and upwelling on the abundance of larval fish species in a southern New Jersey estuary*. George H. Cook Honors Thesis. Cook College, Rutgers University. (Manuscript in the Steven and Lucy Chang Science Library, Cook Campus).

Bosch, J.A. (1997) *Effects of upwelling on the abundance and occurrence of larval fish species in a southern New Jersey estuary*. IMCS Summer Intern / Rutgers Undergraduate Research Fellow Project.

**Academic Awards and Affiliations:**

American Geophysical Union - Member (2001-present)

George H. Cook Honors Scholar (1999) – Cook College, Rutgers University

Sea Grant Undergraduate Research Fellow (1999)

Rutgers University Undergraduate Research Fellow (1997)

Institute of Marine and Coastal Sciences Intern – Rutgers University Coastal Ocean Observation Lab, New Brunswick, NJ / Rutgers University Marine Field Station, Tuckerton, NJ (1997)

**Research Interests:**

Biological/Physical interactions, upwelling systems, larval transport, estuarine ecology, ocean ecology, phytoplankton ecology, satellite oceanography, remote sensing of aquatic environments

**Activities and Community Service:**

**Expanding Your Horizons** – A national program sponsoring a series of workshops for 7<sup>th</sup> and 8<sup>th</sup> grade girls promoting women and careers in math and science. University of Maine, Orono, Maine. Participant (2001-2002)

**Alpha Zeta National Honors and Service Fraternity** - Member (1997-2000), Executive Board (1998-1999)

**Rutgers University Division I Varsity Fencing Team** - (1995-1999)