

BENJAMIN ISAAC RUTTENBERG, PH.D.

ACADEMIC POSITIONS

- 2007 – present Postdoctoral Fellow, Integrative Oceanography Division, Scripps Institution of Oceanography, La Jolla, CA, USA
- 2006-7. *Postdoctoral fellow*, Universidad Autónoma de Baja California, Ensenada, Mexico and Marine Science Institute, University of California, Santa Barbara, CA, USA
- 2006-pres. *Project coordinator*, Science of Marine Reserves in Latin America, Universidad Autónoma de Baja California, Ensenada, Baja California, México
- 2006 *Lecturer*, University of California, Santa Barbara, CA, USA

EDUCATION

University of California, Santa Barbara, California, USA

Department of Ecology, Evolution and Marine Biology, Ph.D. awarded June 2006.

Major Advisor: Dr. Robert R. Warner

Dissertation: “Causes and consequences of geographical variation in demography and larval exchange in reef fishes”

Yale University, New Haven, Connecticut, USA

School of Forestry and Environmental Studies, M.S. awarded May 1999.

Master’s thesis: “The effects of artisanal fishing on marine communities in the Galápagos Islands”

Tufts University, Medford, Massachusetts, USA

B.A. awarded May 1994, *cum laude*.

PUBLICATIONS

In press Granek, E. F. and **B. I. Ruttenberg**. The protective capacity of mangroves during tropical storms: a case study from Wilma and Gamma in Belize. *Marine Ecology Progress Series*.

In review **Ruttenberg, B. I.**, S. L. Hamilton, and R. R. Warner. Spatial and temporal variation in the chemical signatures of natal otoliths from two species of Hawaiian reef fishes. *Canadian Journal of Fisheries and Aquatic Sciences*.

In review Lester, S. E., B. S. Halpern, K. Grorud-Colvert, J. Lubchenco, **B. I. Ruttenberg**, S. D. Gaines, S. Aíramé, and R. R. Warner. Biological Effects within No-Take Marine Reserves: A Global Synthesis. *Ecological Applications*.

In review Granek, E. F. and **B. I. Ruttenberg**. Changes in biotic and abiotic processes following mangrove removal. Target: *Ecological Applications*.

- 2007 Lester, S. E., **B. I. Ruttenberg**, S. D. Gaines, and B. P. Kinlan. The relationship between dispersal ability and geographic range size. *Ecology Letters* 10: 745-758.
- 2007 White, J. W. and **B. I. Ruttenberg**. Discriminant function analysis in marine ecology: some common oversights and their solutions. *Marine Ecology Progress Series* 329: 301-305.
- 2006 **Ruttenberg, B. I.** and R. R. Warner. Spatial variation in the chemical composition of natal otoliths from a reef fish in the Galápagos Islands. *Marine Ecology Progress Series* 328: 225-236.
- 2005 **Ruttenberg, B. I.**, A. J. Haupt, A. I. Chiriboga, and R. R. Warner. Patterns, causes and consequences of regional ecological variation in a reef fish. *Oecologia* 145: 394-403.
- 2005 **Ruttenberg, B. I.**, S. L. Hamilton, M. J. H. Hickford, G. L. Paradis, M. S. Sheehy, J. D. Standish, O. Ben-Tzvi, and R. R. Warner. Elevated levels of trace elements in cores of otoliths and their potential for use as natural tags. *Marine Ecology Progress Series* 297: 273-281.
- 2005 Lester, S. E. and **B. I. Ruttenberg**. The relationship between pelagic larval duration and range size in tropical reef fishes: a synthetic analysis. *Proceedings of the Royal Society Series B* 272: 585-591.
- 2001 **Ruttenberg, B. I.** The effects of artisanal fishing on marine communities in the Galápagos Islands. *Conservation Biology* 15(6): 1691-1699.
- 2001 Victor, B. C., G. M. Wellington, D. R. Roberston, and **B. I. Ruttenberg**. The effect of the El Niño-Southern Oscillation event on the distribution of reef-associated labrid fishes in the eastern Pacific Ocean. *Bulletin of Marine Science* 69(1): 279-288.
- 2000 **Ruttenberg, B. I.** An unusual pulse in recruitment of two reef fishes in the Galápagos Islands coincident with the 1997-1998 El Niño. *Bulletin of Marine Science* 67(2): 869-874.
- 2000 Bustamante, R. H., G. K. Reck, **B. I. Ruttenberg**, and J. J. Polovina. The Galápagos' spiny lobster fishery. Pages 210-220. In *Spiny Lobsters: Fisheries and Culture* 2nd ed. B.F. Phillips and J. Kittaka eds. Fishing News Books, Oxford.

SELECTED GRANTS AND AWARDS

- 2006 UC-MEXUS Postdoctoral Fellowship
- 2004-2005 *University of California, Santa Barbara*. Brython Davis Graduate Fellowship.
- 2004 *University of California, Santa Barbara*. UCSB Affiliates Graduate Fellowship.
- 1999-2003 *University of California, Santa Barbara*. UC Regents Fellowship.

- 2003 *U.S. National Park Service Pacific Islands Coral Reef Program.*
Graduate Research Grant. \$25,000
- 2003 *The PADI Foundation.* Grant. \$3,000
- 2001 *International Society for Reef Studies/The Ocean Conservancy.*
Fellowship for Coral Reef Research. \$14,500
- 2001 *University of California Santa Barbara.*
Science and Engineering Research Grant. \$2,000
- 2001 *The Explorers Club.* Exploration Fund Grant. \$1,200
- 2001 *American Soc. of Ichthyologists and Herpetologists.* Raney Fund Grant. \$1,000
- 2001 *PADI Project Aware Foundation.* Microgrant. \$1,000
- 2001 *Sigma Xi.* Grant-in-aid of Research. \$900
- 2000 *American Soc. of Ichthyologists and Herpetologists.* Raney Fund Grant. \$1,000
- 2000 *PADI Project AWARE Foundation.* Microgrant. \$1,000

SELECTED PRESENTATIONS

- Ruttenberg, B. I.** and E.F. Granek. The protective capacity of mangroves during tropical storms: a case study from Wilma and Gamma in Belize. *Society for Conservation Biology Annual Meeting*, July 2007, Port Elizabeth, South Africa.
- Ruttenberg, B. I.**, S. E. Lester, B. S. Halpern, and P. Guarderas. “A global synthesis of the effects of no-take marine reserves.” (Presented in Spanish) *Latin American Marine Science Congress (COLACMAR)*, Apr. 2007, Florianopolis, Brazil.
- Ruttenberg, B. I.** “Geographical variation in demography, dispersal and range size in reef fishes.” (Presented in Spanish). Invited seminar, Apr. 2007, Universidade Federal de Santa Catarina, Florianopolis, Brazil.
- Ruttenberg, B. I.**, S. E. Lester, S. D. Gaines, and B. P. Kinlan. “Does dispersal ability determine species’ range sizes?” *Western Society of Naturalists Annual Meeting*, Nov. 2006, Redmond, WA.
- Ruttenberg, B. I.** and R. R. Warner. “Variation in the natal otolith chemistry of a reef fish from the Galápagos Islands across multiple spatial scales: applications for tracking larval dispersal.” *American Society of Limnology and Oceanography-American Geophysical Union-The Oceanography Society Joint Meeting in Ocean Sciences*, Feb. 2006, Honolulu, HI.
- Ruttenberg, B. I.**, A. Hearn, L. Vinuesa, S. Salazar, S. Banks, and V. Francisco. “The effects of bottom up processes on regional demographic patterns in the Galápagos Islands.” *Western Society of Naturalists Annual Meeting*, Nov. 2005, Monterey, CA.
- Ruttenberg, B. I.** and R. R. Warner. “A tale of two fishes: Patterns and causes of regional ecological variation in congeneric damselfishes in the Galápagos Islands.” *Ecological Society of America-International Congress of Ecology Joint Meeting*, Aug. 2005, Montreal, Canada.

Ruttenberg, B. I. and S. E. Lester. “Reconciling the relationship between dispersal ability and geographic range in tropical reef fishes.” *International Coral Reef Symposium*, June-July 2004, Okinawa, Japan.

Ruttenberg, B. I. and A.J. Haupt. “Regional variation in the ecology and life-history characteristics of a reef fish in the Galápagos Islands.” *Western Society of Naturalists Annual Meeting*, Nov. 2002, Monterey, CA.

Ruttenberg, B. I. “Use of otolith microchemistry to determine pathways of larval dispersal in the Galápagos Marine Reserve – A preliminary analysis.” (Presented in Spanish). Invited seminar, *Charles Darwin Research Station*, Aug., 2002, Galápagos Islands, Ecuador.

TEACHING EXPERIENCE

Instructor, University of California, Santa Barbara
Biology of Fishes, Summer 2006

Co-organizer/Leader, University of California, Santa Barbara
Workshop on grant and fellowship proposal writing for New Graduate Students, Fall 2004

Graduate Teaching Assistant, University of California, Santa Barbara
Biology of Fishes, Fall 2001, 2003, 2004, 2005
Behavioral Ecology and Ethology, Winter 2006
Introductory Biology II and III, Winter 2001, and Spring 2001, 2004, 2005, 2006

Guest Lecturer, University of California, Santa Barbara
Biology of Fishes, Introduction to Oceanography, Tropical Ecology

Graduate Teaching Fellow, Yale University
Vertebrate Biology, Spring 1999, Introduction to Environmental Studies, Fall 1998

SELECTED SERVICE AND VOLUNTEER EXPERIENCE

Review Editor, *Marine Ecology Progress Series*

Reviewed manuscripts for *Marine Ecology Progress Series*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Marine and Freshwater Research*, *Coral Reefs*, *Marine Biology*, *Bulletin of Marine Science* and *Pacific Science*.

Reviewed proposals for *Sea Grant College Program*, *University of Hawaii*.

Group Leader, Kids Do Ecology, National Center for Ecological Analysis and Synthesis
Program designed to introduce grade school students to basic ecological questions and methodologies, Spring 2004.

Volunteer Consultant, Project Seahorse, Bohol, Philippines

Assisted in design and implementation of long-term monitoring protocol for coral and reef fish communities in a network of marine protected areas in the Central Philippines. Summer 1999.

Fluent in Spanish.