

Alberto M. Sabat

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RESEARCH INTERESTS

Demography, population dynamics, life history evolution, and management in age/stage structured populations.

EDUCATION

Postdoc (1991): Department of Biology, University of Puerto Rico, Río Piedras.

Ph.D. (1990): Department of Biological Sciences, State University of New York, Albany.

M.Sc. (1985): Department of Marine Sciences, University of Puerto Rico, Mayaguez.

B.Sc. (1981): Department of Biology, University of Puerto Rico, Mayaguez.

APPOINTMENTS

Professor (2000-present): Department of Biology, University of Puerto Rico, Río Piedras.

Director (1999-2006): Department of Biology, University of Puerto Rico, Río Piedras.

Associate Professor (1997): Department of Biology, University of Puerto Rico, Río Piedras.

Assistant Professor (1992): Department of Biology, University of Puerto Rico, Río Piedras.

PEER-REVIEWED PUBLICATIONS (35)

Raisa Hernández-Pacheco, Richard G. Rawlins, Matthew J. Kessler, Lawrence E. Williams, Tagrid M. Ruiz-Maldonado, Janis González-Martínez, Angelina V. Ruiz-Lambides, and **Alberto M. Sabat**. 2013. Demographic variability and density-dependent dynamics of a free-ranging rhesus macaque population. *American Journal of Primatology* doi: 10.1002/ajp.22177

Claudia P. Ruiz-Díaz, Carlos Toledo-Hernández, **Alberto M. Sabat**, Mariano Marcano. 2013. Immune response to a Pathogen in Corals. *Journal of Theoretical Biology* 332:141–148

Ruber Rodríguez-Barreras, **Alberto M. Sabat** and Jaime R. Calzada-Marrero. 2013. The new list of shallow water echinoids (Echinodermata: Echinoidea) for Puerto Rico. *Marine Biodiversity Records*, Volume 6: e49

Carlos TOLEDO-HERNANDEZ, Vladislav GULIS, Claudia Patricia RUIZ-DIAZ, **Alberto M. SABAT**, Paul BAYMAN. 2013. When aspergillosis hits the fan: disease transmission and fungal biomass in diseased versus healthy sea fans (*Gorgonia ventalina*). *Fungal Ecology* 6: 161–167

Ruber Rodríguez-Barreras, Jaime R. Calzada-Marrero and **Alberto M. Sabat**. 2012. A new record of the echinoid *Echinoneus cyclostomus* and additional information on *Cassidulus caribaeorum* for Puerto Rico. *Marine Biodiversity Records*, Volume 5: e112

Ruber Rodríguez-Barreras, **Alberto M. Sabat**, Milena Benavides-Serrato and Damien R. Bontemps. 2012. A new record for Puerto Rico of the irregular echinoid *Cassidulus caribaeorum* (Echinodermata: Echinoidea). *Marine Biodiversity Records*, Volume 5: e85

Anabella Zuluaga-Montero & **Alberto M. Sabat**. 2012. Spatial variability of disease incidence and mortality in the sea fan *Gorgonia ventalina* in Puerto Rico (Alcyonacea: Goorgoniidae). *Rev. Biol. Trop.* (Int. J. Trop. Biol. ISSN-0034-7744) Vol. 60 (2): 517-526.

Ana R. Patrício, Ximena Velez-Zuazo, Carlos E. Diez, Robert Van Dam, **Alberto M. Sabat**. 2011. Survival probability of immature green turtles in two foraging grounds at Culebra, Puerto Rico. *Marine Ecology Progress Series* 440: 217-227.

Martha P. Rincon-Diaz, Carlos E Diez, Robert P. Van Dam, and **Alberto M. Sabat**. 2011. Effect of food availability on the abundance of juvenile hawksbill sea turtles (*Eretmochelys imbricata*) in inshore aggregation areas of the Culebra Archipelago, Puerto Rico. *Chelonian Conservation and Biology* 10: 213-221.

Martha P. Rincon-Diaz, Carlos E Diez, Robert P. Van Dam, and **Alberto M. Sabat**. 2011. Foraging Selectivity of the Hawksbill Sea Turtle (*Eretmochelys imbricata*) in the Culebra Archipelago, Puerto Rico. *Journal of Herpetology* 45: 277-282.

Alex E. Mercado-Molina, **Alberto M. Sabat**, and Paul M. Yoshioka. 2011. Demography of the demosponge *Amphimedon compressa*: evaluation of the importance of sexual versus asexual recruitment to its population dynamics. *Journal of Experimental Marine Biology* 407: 355-362.

Hernández-Pacheco, R., E. A. Hernández-Delgado, and **A. M. Sabat**. 2011. Demographics of bleaching in a major Caribbean reef-building coral: *Montastraea annularis*. *Ecosphere* 2(1):art9.

Lugo-Pérez J and **AM Sabat**. 2010. Effect of an Urban Adjacent land use and Aspect on the Structure and Composition of Vegetation in the Karst Region of Puerto Rico. *Urban Ecosystems* 14:45-58.

Néstor Pérez-Buitrago, **Alberto M. Sabat**, and W. Owen McMillan. 2010. Spatial ecology of the endangered Mona Island iguana *Cyclura cornuta stejnegeri*: is territorial behavior maintaining low densities in the population? *Herpetological Monographs* 24:86110.

Zuluaga-Montero, A., C. Toledo-Hernández, J. A. Rodríguez, **A. M. Sabat**, and P. Bayman. 2010. Spatial variation in fungal communities isolated from healthy and diseased sea fans *Gorgonia ventalina* and seawater. *Aquatic Biology* 8:151-160.

Uriarte, M., C. D. Canham, J. Thompson, J. K. Zimmerman, L. Murphy, **A. M. Sabat**, N. Fetcher, and B. L. Haines. 2010. Understanding natural disturbance and human land use as determinants of tree community dynamics in a subtropical wet forest: RESULTS FROM A FOREST SIMULATOR. *Ecological Monographs* 79: 423-443.

López-Rivera, M. and **A. M. Sabat**. 2009. Effects of a Marine Fishery Reserve and Habitat Characteristics in the Abundance and Demography of the Red Hind Grouper, *Epinephelus guttatus*. *Caribbean Journal of Science* 45:348-362.

Toledo-Hernández, C., P. Yoshioka, P. Bayman, and **A. M. Sabat**. 2009. Impact of disease and detachment on growth and survivorship of sea fans (*Gorgonia ventalina*). *Marine Ecology Progress Series* 393:47-54.

Rodríguez-Fourquet C and **AM Sabat**. 2009. Effect of harvesting, vegetation structure and composition on the abundance and demography of the land crab *Cardisoma guanhumi* in Puerto Rico. *Wetlands Ecology and Management* 17:627-640.

Govender , **AM Sabat** and E Cuevas. 2008. Effects of land-use/land-cover changes on land crab, *Cardisoma guanhumi*, abundance in Puerto Rico. *Journal of Tropical Ecology* (24): 1-7.

Pérez-Buitrago N, MA García, **AM Sabat**, J Delgado, A Álvarez, O McMillan, SM Funk. 2008. Do headstart programs work? Survival and body condition in headstarted Mona Island iguanas *Cyclura cornuta stejnegeri*. *Endangered Species Research* 6: 55-65.

Toledo-Hernández C, A Zuluaga-Montero, A Bones-González, JA Rodríguez, **AM Sabat** and P Bayman. 2008. Fungi in healthy and diseased sea fans (*Gorgonia ventalina*): is *Aspergillus sydowii* the pathogen? *Coral Reefs* 27: 707-714.

Galindo-Cardona, A.; Giray, T.; **Sabat, A. M.**; Reyes-Castillo, P. 2007. Bess Beetle (Coleoptera: Passalidae): Substrate Availability, Dispersal, and Distribution in a Subtropical Wet Forest. *Annals of the Entomological Society of America* 100: 711-720

Pérez-Buitrago N, **AM Sabat**, SM Funk, MA García, A Álvarez, O McMillan. 2007. Spatial ecology of the Mona Island iguana *Cyclura cornuta stejnegeri* in an undisturbed environment. *Applied Herpetology* 4: 347-355.

Pérez-Buitrago N and **AM Sabat**. 2007. Natal dispersal, home range and habitat use of hatchlings of the Mona Island iguana (*Cyclura cornuta stejnegeri*). *Applied Herpetology* 4: 365-376.

Toledo-Hernández C, **AM Sabat** and A Zuluaga-Montero. 2007. Density, size structure and aspergillosis prevalence in *Gorgonia ventalina* at six localities in Puerto Rico. *Marine Biology* 152(3): 527-535.

Toledo-Hernández C, A Bones-González, OE Ortiz-Vázquez, **AM Sabat** & P Bayman. 2007. Fungi in the sea fan *Gorgonia ventalina*: diversity and sampling strategies. *Coral Reefs* 26: 725-730.

Sloan SA, JK Zimmerman and **AM Sabat**. 2006. Phenology of *Plumeria alba* and its herbivores in a tropical dry forest. *Biotropica* 39: 195-201.

González, G., X. Zou, **A. Sabat**, and N. Fetcher. 1999. Earthworm abundance and distribution pattern in contrasting plant communities within a tropical wet forest in Puerto Rico. *Caribbean Journal of Science* 35: 93-100.

Sabat, A. M. and J. D. Ackerman. 1996. Fruit set in a deceptive orchid: the effect of flowering phenology, display size, and local floral abundance. *American Journal of Botany* 83: 1181-1186.

Ackerman, J. D., **A. M. Sabat**, and J. Zimmerman. 1996. Seedling establishment in an epiphytic orchid: an experimental study of seed limitation. *Oecologia* 106: 192-198.

Gregory, F. A. and **A. M. Sabat**. 1996. The effect of hurricane disturbance on the fecundity of sierra palms (*Prestoea montana*). *Bios* 67: 135-139.

Sabat, A. M. 1994. Costs and benefits of parental effort in a brood-guarding fish (*Ambloplites rupestris*, Centrarchidae). *Behavioral Ecology* 5: 195-201.

Sabat, A. M. 1994. Mating success in brood-guarding male rock bass, *Ambloplites rupestris*: the effect of body size. *Environmental Biology of Fishes* 39:411-415.

Gilliam, J. F., D. F. Fraser, and **A. M. Sabat**. 1989. Strong effects of foraging minnows on a stream benthic invertebrate community. *Ecology*, 70: 445-452.

GRANTS (≥ \$10,000)

Puerto Rico Center for Environmental Neuroscience. (Sub-project leader) NSF-CREST program, \$30K/yr (2012-2017).

Sea fan aspergillosis: demography, impact and stress. (PI) Sea Grant Program (NOAA), \$134K (2010-2013).

Long-term monitoring of coral reefs within and outside Culebra's fishing reserve. (Co-PI) NOAA - CRES program, \$50,000/yr (2002-2009).

Effects of the Culebra Fisheries Reserve in the Structure of Coral Reef Fish and Epibenthic Communities. (PI) Sea Grant Program (NOAA) \$60,000 (2001-2003).

Management of red hind (*Epinephelus guttatus*) fishery in western Puerto Rico through a regional demographic analysis. (PI) National Marine Fishery Service (NOAA), \$235,464 (1999-2001).

Effect of exotic species on the population of the Mona iguana. (PI). U. S. Fish and Wildlife Service \$14,000 (1998-1999).

Improvements to El Verde Field Station, Puerto Rico. (Co-PI) National Science Foundation, \$50,000. NSF, (1997-2000).

Upgrading of Ecology and Molecular Biology Labs. (Co-PI) National Science Foundation -ILI Program, \$76,000 (1997-1999).

Long-Term Ecological Research on the Luquillo Experimental Forest II. (Collaborator) National Science Foundation-LTER Program, \$10,000/yr (1994-1997).

Ecological Processes and Patterns of Biodiversity in Tropical Forests of Puerto Rico. (Collaborator) National Science Foundation-MRCE Program \$30,000/yr (1993-1996).

Graduate Students (9 PhD, 11 MSc)

Hernández-Pacheco, Raisa (PhD 2013)

González, Rosa Linda (MSc 2010)

Rincón Díaz, Martha (MSc 2009)

Zuluaga Montero, Anabella (PhD 2008)

Toledo-Hernández, Carlos (PhD 2008)

Govender, Yogani (PhD 2007)

Pérez-Buitrago, Néstor (PhD 2007)

López-Rivera, María del Mar (MSc 2005)

Rodríguez-Fourquet, Concepción (PhD 2004)
Toledo-Hernández, Carlos (MSc 2003)
Sloan, Steven A. (PhD 2003)
Zuluaga-Montero, Anabella (MSc 2003)
Gearheart, Geoffrey (MSc 2002)
Lugo-Pérez, Javier (MSc 2002)
Galindo-Cardona, Alberto (MSc 2001)
Kenny-Elliot, Emilio (PhD 2000)
Hernández Delgado, Edwin (PhD 2000)
Pérez-Buitrago, Néstor (MSc 2000)
Pérez-Reyes, Omar (MSc 1999)
Carronero, William (MSc 1996)