

## PATRICK L. COLIN

### MAILING ADDRESS AND TELEPHONE:

Coral Reef Research Foundation  
P.O. Box 1765  
Koror, Palau 96940

phone: 680-488-5255  
fax: 680-488-5513  
E-mail: crrfpalau@gmail.com

### EDUCATION:

Ph.D. 1973, School of Marine and Atmospheric Sciences, University of Miami, Coral Gables, Florida, USA (Marine Sciences)  
M.S. 1970, School of Marine and Atmospheric Sciences, University of Miami, Coral Gables, Florida, USA (Marine Sciences)  
B.S. 1968, University of Miami (Biology)

### PRESENT POSITION:

I am President of the Coral Reef Research Foundation (CRRF), a non-profit corporation started in 1991 and dedicated to research and education on coral reefs and other tropical marine environments. I am also Director of the CRRF Palau Research Laboratory.

### POSITIONS HELD:

President, Coral Reef Research Foundation, 1991-present.  
Director, Chuuk Atoll Research Laboratory, Weno, Chuuk, FSM, 1992-1995  
Research Associate, Dept. of Biological Sciences, Florida State University, 1991- 1992  
Chief Scientist, Caribbean Marine Research Center, Fish Resource Ecology, 1987 - 1992.  
Senior Technical Officer, Motupore Island Research Department, University of Papua New Guinea, 1983 - 1987.  
Chief Scientist, Mid-Pacific Research Laboratory, Enewetak Atoll, Marshall Islands (operated by the Research Corporation of the University of Hawaii), 1979 - 1983.  
Affiliate Graduate Faculty, Dept. of Oceanography, University of Hawaii, Honolulu, Hawaii, 1980 - 1983.  
Associate Professor (1979) and Assistant Professor (1974-1978), Dept. of Marine Sciences, University of Puerto Rico, Mayaguez, Puerto Rico.

**CURRENT RESEARCH ACTIVITIES-** Physical oceanography of Palau lagoon, shelf and ocean waters using in situ instrument arrays, autonomous vehicles and remote sensing. Documentation of thermal dynamics (internal waves and weather-related effects) on Palauan reefs as it affects coral growth and health. Studies of reef fish spawning biology in Palau, particularly species that aggregate. Photography, archiving and mapping of shallow water environments from aerial photographs.

**RESEARCH INTERESTS:** Tropical marine ecology, coral reef biology, bioturbation, zoogeography, spawning and rearing of marine fishes in the laboratory, development of oceanographic equipment, bioluminescence, life history of tropical marine fishes.

### BOOKS:

Colin, Patrick L. 2009. Marine Environments of Palau. Indo-Pacific Press, 414 pp.  
1978. Caribbean Reef Invertebrates and Plants. T.F.H. Publications, Neptune, New Jersey, 312 pp.

Colin, Patrick L. and C. Arneson. 1995. Tropical Pacific Invertebrates, Coral Reef Press, 304 pp.

Colin, Patrick L., Yvonne J. Sadovy and Michael L. Domeier. 2003. Manual for the Study and Conservation of Reef Fish Spawning Aggregations. Soc. Conserv. Reef Fish Aggregations Special Publication 1, 98 pp.

Sadovy de Mitcheson, Y.J. and P.L. Colin (eds.) 2011. Reef Fish Spawning Aggregations: Biology, Research and Management, Fish & Fisheries Series 35, Springer, 621 pp..

#### **SELECTED SCIENTIFIC PUBLICATIONS:**

Allen.G.R., F. Young and P.L. Colin. 2006. *Centropyge abei*, a new species of deep-dwelling angelfish (Pomacanthidae) from Sulawesi, Indonesia. *Aqua* 11(1): 13-18.

Bruno, J.F., C.E. Siddon, J.D. Whitman, P.L. Colin and M.A. Toscano. 2001. El Nino related coral bleaching in Palau, western Caroline Islands. *Coral Reefs* 20: 127-136.

Colin, Patrick L. 2010. Aggregation and spawning of the humphead wrasse *Cheilinus undulatus* (Pisces: Labridae): general aspects of spawning behaviour. *Journal of Fish Biology* 76: 987–1007.

2010. Fishes as living tracers of connectivity in the tropical western North Atlantic: I. Distribution of the neon gobies, genus *Elacatinus* (Pisces: Gobiidae). *Zootaxa* 2370: 36–52

2008. Velasco Reef: a sunken atoll with unusual “remnant” beds of the seagrass *Thalassodendron ciliatum*. *Coral Reefs* 27:395.

Colin, P.L., Sadovy de Mitcheson, Y., Donaldson, T.J. 2013. Grouper spawning aggregations: Be careful what you measure and how you measure it: A rebuttal of Golbuu and Friedlander (2011). *Estuarine, Coastal and Shelf Science* 123: 1-6.

Domeier, M.L. and P.L. Colin. 1997. Tropical reef fish spawning aggregations: defined and reviewed. *Bull. Mar. Sci.* 60(3): 698-726.

Fabricius, K.E., J. Mieog, P.L. Colin, D. Idip and M. van Oppen. 2004. Identity and diversity of coral endosymbionts (zooxanthellae) from three Palauan reefs with contrasting bleaching, temperature and shading histories. *Molecular Ecology*. 13: 2445-2458.

Hamner, W.M., P.L. Colin and P.P. Hamner. 2007. Export-import dynamics of zooplankton on a coral reef in Palau. *Mar. Ecol. Prog. Ser.* 334: 83-92.

Martin, L.E., M.N. Dawson, L.J. Bell and P.L. Colin, 2006. Marine lake ecosystem dynamics illustrate ENSO variation in the tropical western Pacific. *Biol. Lett.* 2(1): 144-147.

McMurtry, G. M., R.C. Schneider, P.L. Colin, R.W. Buddemeier and T.H. Suchanek. 1986. Vertical distribution of fallout radionuclides in Enewetak lagoon sediments: effects of burial and bioturbation on the radionuclide inventory. *Bull. Mar. Sci.* 38(1): 35-55.

- Sadovy de Mitcheson, Y., A. Cornish, M. Domeier, P. Colin, M. Russell and K. Lindeman. 2008. A global database for spawning aggregations of reef fishes. *Cons. Biol.* 22(5): 1233-1244.
- Wolanski, E., P.L. Colin, J. Naithani, E. Deleersnijder and Y. Golbuu. 2004. Large amplitude, leaky, island-generated, internal waves around Palau, Micronesia. *Estuarine, Coastal and Shelf Science* 60: 705-716.