

Glenn Richard Almany, 14 August 1967–24 March 2015

Glenn Almany, dear friend, father of two young children, and husband of Jeanine, passed away on March 24th 2015. His wife and parents were with him in Montpellier, France at the time. Glenn had a larger-than-life personality, and his humour, knowledge and friendship will be sorely missed by all of us who were privileged to know him. A marine scientist who was becoming increasingly renowned for his groundbreaking work on the disper-



sal patterns of coral reef fish larvae, Glenn will be remembered for the way in which he worked with Pacific Island communities to tackle applied research questions on fisheries management.

Glenn's path into a career in tropical marine science was unique. At 17 years of age he left his parents' home in Southern California and joined the US Navy on a quest to see the world. He spent the next six years working as a reactor operator on a nuclear submarine. It was while in the US Navy that he developed his love for coral reefs. Glenn spent several weeks in Guam while his boat underwent repairs, and during that time he dove on coral reefs for the first time. Unlike the waters off of California, the tropical Pacific was warm, colourful and full of so many species he had only ever encountered in books. This experience changed Glenn's life forever, and it was during this time he decided to become a marine biologist.

After leaving the US Navy, Glenn completed in 1996 a BSc at San Francisco State University and a PhD at Oregon State University, in 2002. His postgraduate research focused on coral reef fish ecology, with much of his fieldwork conducted in the Caribbean. He received a Fulbright Postgraduate Scholarship in 2003 and travelled to Australia to undertake studies on marine reserves. I first met Glenn in 2005. By then he was working as a research scientist at James Cook University and I had recently began working as a conservation scientist for The Nature Conservancy. We quickly became very close friends, and from 2006 to 2014 we undertook a series of research programmes to investigate the larval connectivity patterns of large coral reef fish in Papua New Guinea and Solomon Islands. These programmes were ambitious in scale, but the fieldwork was made possible by our participatory approach that drew on the support and engagement of a large number of community fishers.

Glenn was an avid reader and a great story-teller, and over the years I learned an enormous amount from him during the many conversations we had while sitting on canoes in the Bismarck Sea, or camping on remote islands in the Solomon Islands. A brave individual who never shied away from a challenge, he survived crocodile encounters, malaria, being lost at sea, and beating an aggressive form of blood cancer, all the while maintaining his positive spirit. Although Glenn beat the cancer, ultimately he could not survive the many complications that arose from the arduous 15 months of treatment.

Gone far too soon, this photo of Glenn was taken in Pere village, Manus, Papua New Guinea. It sums up how I knew him. A brilliant scientist with a deep green core, Glenn was deeply concerned with making a meaningful difference in this world. Here he is in Manus, surrounded by children, and using his expertise and knowledge to try and make their future brighter.

Rest in peace my friend.

Richard Hamilton

Glenn Richard Almany achievements and contributions

Education

- Doctor of Philosophy (PhD) Oregon State University (USA), September 2002
 Thesis advisor: Professor Mark A. Hixon
 Thesis title: “Role of priority effects and habitat complexity in coral-reef fish communities”
- Bachelor of Science (BSc) San Francisco State University (USA), January 1996
summa cum laude (3.96 GPA)

Publications (in chronological order)

- Green A.L., Maypa A.P., Almany G.R., Rhodes K.L., Weeks R., Abesamis R.A., Gleason M.G., Mumby P.J. and White A.T. in press. Larval dispersal and movement patterns of coral reef fishes, and implications for marine reserve network design. Biological reviews of the Cambridge Philosophical Society.
- Priest M.A., Almany G.R., Braun C.D., Hamilton R.J., Lozano-Cortés D.F., Saenz-Agudelo P. and Berumen M.L. in press. Isolation and characterization of 29 microsatellite markers for the bumphead parrotfish, *Bolbometopon muricatum*, and cross amplification in 12 related species. Marine Biodiversity
- Robinson J., Graham N.A.J., Cinner J.E., Almany G.R. and Waldie P. in press. Fish and fisher behaviour influence the vulnerability of groupers (Epinephelidae) to fishing at a multispecies spawning aggregation site. Coral Reefs.
- Almany G.R. 2015. Marine Ecology: Reserve networks are necessary, but not sufficient. Current Biology 25, R328–R330.
- Green A.L., Fernandes L., Almany G.R., Abesamis R., McLeod E., Aliño P.M., White A.T., Salm R., Tanzer J. and Pressey R.L. 2014. Designing marine reserves for fisheries management, biodiversity conservation, and climate change adaptation. Coastal Management 42:143–159.
- Wen C.K.C., Almany G.R., D.H. Williamson, M.S. Pratchett, T.D. Mannering, R.D. Evans, J.M. Leis and G.P. Jones. 2013. Recruitment hotspots boost the effectiveness of no-take marine reserves. Biological Conservation 166:124–131.
- Almany G.R., Hamilton R.J., Bode M., Matawai M., Potuku T., Saenz-Agudelo P., Planes S., Berumen M.L., Rhodes K.L., Thorrold S.R., Russ G.R. and Jones G.P. 2013. Dispersal of grouper larvae drives local resource sharing in a coral reef fishery. Current Biology 23:626–630.
- Wen C.K.C., Pratchett M.S., Almany G.R. and Jones G.P. 2013. Role of prey availability in microhabitat preferences of juvenile coral trout (*Plectropomus*: Serranidae). Journal of Experimental Marine Biology and Ecology 443:39–45.
- Rhodes K.L., Taylor B.M., Wichilmel C.B., Joseph E., Hamilton R.J. and Almany G.R. 2013. Squaretail coralgrouper *Plectropomus areolatus* reproduction in Pohnpei, Micronesia, using age-based techniques. Journal of Fish Biology 82:1333–1350.
- Wen C.K.C., Pratchett M.S., Almany G.R. and Jones G.P. 2013. Patterns of recruitment and microhabitat associations for three predatory coral reef fishes on the southern Great Barrier Reef, Australia. Coral Reefs 32:389–398.
- Cvitanovic C., Wilson S., Fulton C., Almany G.R. and 31 others. 2013. Critical research needs for managing coral reef Marine Protected Areas: perspectives of academics and managers. Journal of Environmental Management 114:84–91.

- Wen C.K., Almany G.R., Williamson D.H., Pratchett M.S. and Jones G.P. 2012. Evaluating the effects of marine reserves on diet, prey availability and prey selection by juvenile predatory fishes. *Marine Ecology Progress Series* 469:133–144.
- Harrison H.B., Williamson D.H., Evans R.D., Almany G.R., Thorrold S.R., Russ G.R., Feldheim K.A., van Herwerden L., Planes S., Srinivasan M., Berumen M.L. and Jones G.P. 2012. Larval export from marine reserves and the recruitment benefit for fish and fisheries. *Current Biology* 22:1023–1028.
- Ban N.C., Cinner J.E., Adams V., Mills M., Almany G.R., Ban S., McCook L.J. and White A. 2012. Recasting shortfalls of marine protected areas as opportunities through adaptive management. *Aquatic Conservation: Marine and Freshwater Ecosystems* 22:262–271.
- Berumen M.L., Almany G.R., Planes S., Jones G.P. and Thorrold S.R. 2012. Persistence of self-recruitment and patterns of larval connectivity in a marine protected area network. *Ecology and Evolution* 2:444–452.
- Ban N.C., V. Adams, Almany G.R., Ban S., Cinner J., McCook L.J., Mills M., Pressey R.L. and White A. 2011. Designing, implementing and managing marine protected areas: emerging trends and opportunities for coral reef nations. *Journal of Experimental Marine Biology and Ecology* 408:21–31.
- Bonin M.C., Almany G.R. and Jones G.P. 2011. Contrasting effects of habitat loss and fragmentation on coral-associated reef fishes. *Ecology* 92:1503–1512.
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- Berumen M.L. and Almany G.R. 2009. External tagging does not affect the feeding behavior of a coral reef fish, *Chaetodon vagabundus* (Pisces: Chaetodontidae). *Environmental Biology of Fishes* 86:447–450.
- Berumen M.L., Rochel E., Almany G.R., Thorrold S.R., Jones G.P., Pratchett M.S., Syms C. and Planes S. 2009. Isolation and characterization of 15 polymorphic nuclear microsatellite primers for the widespread Indo-Pacific vagabond butterflyfish, *Chaetodon vagabundus*. *Molecular Ecology Resources* 9:1460–1559.
- Almany G.R., Connolly S.R., Heath D.D., Hogan J.D., Jones G.P., McCook L.J., Mills M., Pressey R.L. and Williamson D.H. 2009. Connectivity, biodiversity conservation, and the design of marine reserve networks for coral reefs. *Coral Reefs* 28:339–351.
- McCook L.J., Almany G.R., Berumen M.L., Day J.C., Green A.L., Jones G.P., Leis J.M., Planes S., Russ G.R., Sale P.F. and Thorrold S.R. 2009. Management under uncertainty: guide-lines for incorporating connectivity into the protection of coral reefs. *Coral Reefs* 28:353–366.
- Jones G.P., Almany G.R., Russ G.R., Sale P.F., Steneck R.R., van Oppen M.J.H. and Willis B.L. 2009. Larval retention and connectivity among populations of corals and reef fishes: history, advances and challenges. *Coral Reefs* 28:307–325.
- Bonin M.C., Srinivasan M., Almany G.R. and Jones G.P. 2009. Interactive effects of interspecific competition and microhabitat on early post-settlement survival in a coral reef fish. *Coral Reefs* 28:265–274.
- Jones G.P., Srinivasan M. and Almany G.R. 2007. Population connectivity and conservation of marine biodiversity. *Oceanography* 20:42–53.
- Feary D.A., Almany G.R., McCormick M.I. and Jones G.P. 2007. Habitat choice, recruitment and the response of coral reef fishes to coral degradation. *Oecologia* 153:727–737.
- Almany G.R., Berumen M.L., Thorrold S.R., Planes S. and Jones G.P. 2007. Local replenishment of coral reef fish populations in a marine reserve. *Science* 316 (5825):742–744.
- Almany G.R., Peacock L.F., Syms C., McCormick M.I. and Jones G.P. 2007. Predators target rare species in coral-reef fish assemblages. *Oecologia* 152:751–761.

- Feary D.A., Almany G.R., Jones G.P. and McCormick M.I. 2007. Coral degradation and the structure of tropical reef fish communities. *Marine Ecology Progress Series* 333:243–248.
- Cinner J., Marnane M.J., McClanahan T.R. and Almany G.R. 2006. Periodic closures as adaptive coral reef management in the Indo-Pacific. *Ecology and Society* 11(1):31.
- Almany G.R. and M.S. Webster. 2006. The predation gauntlet: early post-settlement mortality in reef fishes. *Coral Reefs* 25(1):19–22.
- Almany G.R. and M.S. Webster. 2004. Odd species out as predators reduce diversity of coral-reef fishes. *Ecology* 85(11):2933–2937.
- Almany G.R. 2004. Priority effects in coral reef fish communities of the Great Barrier Reef. *Ecology* 85(10):2872–2880.
- Almany G.R. 2004. Differential effects of habitat complexity, predators and competitors on abundance of juvenile and adult coral reef fishes. *Oecologia* 141(1):105–113.
- Almany G.R. 2004. Does increased habitat complexity reduce predation and competition in coral reef fish assemblages? *Oikos* 106(2):275–284.
- Harding J.A., Almany G.R., L.D. Houck and M.A. Hixon. 2003. Experimental analysis of monogamy in the Caribbean cleaning goby, *Gobiosoma evelynae*. *Animal Behaviour* 65(5):865–874.
- Almany G.R. 2003. Priority effects in coral reef fish communities. *Ecology* 84(7):1920–1935.
- Webster M.S. and Almany G.R. 2002. Positive indirect effects in a coral reef fish community. *Ecology Letters* 5(4):549–557.
- Steele M.A., Forrester G.E. and Almany G.R. 1998. Influences of predators and conspecifics on recruitment of a tropical and a temperate reef fish. *Marine Ecology Progress Series* 172:115–125.
- Almany G.R. and Baldwin C.C. 1996. A new Atlantic species of *Acanthemblemaria* (Teleostei: Blennioidei: Chaenopsidae): Morphology and relationships. *Proceedings of the Biological Society of Washington* 109 (3):419–429.

Other publications

- Feary D.A., Hamilton R., Matawai M., Molai C., Karo M. and Almany G. 2014. Assessing sandfish population stocks within the south coast of Manus, and a summary report of sandfish connectivity field research. May 19–June 27, 2014. Final Report.
- Hamilton R.J., Almany G.R., Matawai M., Potuku T. and Planes S. 2011. A report on the Kekwa (Bigmaus) connectivity study in Southern Manus, Papua New Guinea.
- Jones G.P., Ablan Lagman M.C., Alcala A., Almany G.R., Botsford L.W., Doherty P.J., Green A., McCook L.J., Munday P.L., Planes S., Russ G.R., Sale P.F., Steneck R.S., Thorrold S.R., Treml E.A., van Oppen M.J.H. and Willis B.L. 2008. Connectivity and the design of marine protected area networks in the Coral Triangle. Background papers, Coral Triangle Initiative. ARC Centre of Excellence for Coral Reef Studies.
- Almany G.R. 2002. Role of priority effects and habitat complexity in coral-reef fish communities. PhD dissertation. Oregon State University, Corvallis, Oregon, USA. 105 p.
- Pearson D.E. and Almany G.R. 1995. The effectiveness of California's commercial rockfish port sampling program. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-218, June 1995.

Awards

Australian Research Council Future Fellowship	2010–2014
Australian Research Council Fellowship	2006–2009
National Science Foundation Fellowship	2004–2005
Fulbright Scholarship	2003
Oregon Laurels Fellowship	1996–2000
National Science Foundation Fellowship	1996–2000

Editorship

Coral Reefs	2010–2015
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Graduate Student Supervision

PhD thesis	Hempson T.N. Coral reef predator trophodynamics in response to reef condition (2013–).
	Waldie P. Developing a community-based ecosystem approach to fisheries management for large aggregating groupers on Indo-Pacific coral reefs (2012–).
	Robinson J. Disentangling the causes of vulnerability to fishing in reef fishes that aggregate (2012–).
	Wen C.K.C. Recruitment hotspots and their role in the ecology and management of large exploited predatory fishes (2008–2013)
	Bonin M.C. Patterns of microhabitat specialization and the consequences of coral degradation for coral-associated reef fishes? (2005–2010)
	Feary D.A. Effects of coral bleaching and crown-of-thorns starfish predation on coral reef fish communities. (2003–2007)
Honors thesis	Peacock L.F. Effects of predators on diversity of juvenile coral-reef fishes. (2004)

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