

# References

- Bellwood, D.R., T.P. Hughes, C. Folke, and M. Nystrom. 2004. Confronting the coral reef crisis. *Nature* 429: 827–833.
- Burton, M.L., R.O. Parker, K.J. Brennan, and R.C. Munoz. 2004. Monitoring reef fish abundance and spawning aggregations in Riley’s Hump, a marine protected area (MPA), and an examination of recruitment sources and sinks for the MPA. National Marine Fisheries’ Southeast Fisheries Science Center Coral Reef Program Review. March 3–5, 2004. Southeast Fisheries Science Center, Miami, Florida. pp. 141–148.
- Friedlander, A.M., and E.E. DeMartini. 2002. Contrasts in density, size, and biomass of reef fishes between the northwestern and the main Hawaiian Islands: the effects of fishing down apex predators. *Mar. Ecol. Progr. Ser.* 230:253–264.
- Moe, M. 1999. Marine ornamental aquaculture: Past, present, and future. Marine Ornamentals ‘99. First International Conference on Marine Ornamentals, Hawai’i, U.S. 53 pp.
- National Marine Fisheries Service. 2004. *Annual Report to Congress on the Status of U.S. Fisheries—2003*. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service. Silver Spring, MD. 24 pp.
- National Oceanic and Atmospheric Administration. 2002. *A National Coral Reef Action Strategy: Report to Congress*. Silver Spring, MD. (<http://www.coralreef.noaa.gov>)
- Spalding, M.D., C. Ravilious, and E.P. Green. 2001. United Nations Environment Programme, World Conservation Monitoring Centre. *World Atlas of Coral Reefs*. University of California Press: Berkeley. 416 pp.
- Turgeon, D.D., R.G. Asch, B.D. Causey, R.E. Dodge, W. Jaap, K. Banks, J. Delaney, B.D. Keller, R. Speiler, C.A. Matos, J.R. Garcia, E. Diaz, D. Catanzaro, C.S. Rogers, Z. Hillis-Starr, R. Nemeth, M. Taylor, G.P. Schmahl, M.W. Miller, D.A. Gulko, J.E. Maragos, A.M. Friedlander, C.L. Hunter, R.S. Brainard, P. Craig, R.H. Richmond, G. Davis, J. Starmer, M. Trianni, P. Houk, C.E. Birkeland, A. Edward, Y. Golbuu, J. Gutierrez, N. Idechong, G. Paulay, A. Tafleichig, and N. Vander Velde. 2002. *The State of Coral Reef Ecosystems of the United States and Pacific Freely Associated*



*States: 2002.* National Oceanic and Atmospheric Administration, National Ocean Service, National Centers for Coastal Ocean Science, Silver Spring, MD. 265 pp. (<http://www.coralreef.noaa.gov>)

United States Coral Reef Task Force (USCRTF). 2000. *The National Action Plan To Conserve Coral Reefs.* Washington, D.C. (<http://www.coralreef.gov/taskforce/actionplan.html>)

Waddell, J.E. (ed.) 2005. *The State of Coral Reef Ecosystems of the United States and Pacific Freely Associated States: 2005.* NOAA Technical Memorandum NOS NCCOS 11. NOAA/NCCOS Center for Coastal Monitoring and Assessment's Biogeography Team. Silver Spring, MD. 522 pp.

Wilkinson, C. (ed.) 2002. *Status of Coral Reefs of the World.* Australian Institute of Marine Science, Australia (<http://www.aims.gov.au/pages/research/coralbleaching/scr2002/scr-00.html>)

Wilkinson, C. (ed.) 2004. *Status of Coral Reefs of the World: 2004.* Australian Institute of Marine Science, Australia. (<http://www.aims.gov.au/pages/research/coral-bleaching/scr2004/index.html>)

# Photo Credits

Individual photography is credited by first appearance.

## Front Cover

Diver with underwater camera: Photo by NPS Submerged Research Center

Child education program: Photo Courtesy of Qamar Schuyler, CNMI Division of Fish and Wildlife

Scuba divers: Photo from NOAA's Submerged Research Center

Satellite: Image Courtesy of NOAA

Scientist running gels: Photo by David Krupp, Windward Community College

Farmer and soil conservationist: Photo by Bob Nichols, USDA NRCS

Blue Tang: Photo from NOAA's Biogeography Program

## p. i

Anemone: Photo by Andy Bruckner

Turtle: Photo by NPS Submerged Resources Center

## p. vii

Boat: Image Courtesy of NPS-Harpers Ferry Center

Butterfly Fish: Photo by Chris Huss, Florida Keys National Marine Sanctuary

## p. 1

Coral reef with reef fish: Photo by Mary L. Frost

Snorkelers: Photo by John Brooks, NPS image

Island: Photo by Andy Bruckner

## p. 2

Brain coral and scuba diver: Photo by Andy Bruckner

## p. 5

Satellite image of Puerto Rico: Image Courtesy of NOAA

## p. 9

Seafloor-feature map: Image Courtesy of NOAA

## p. 11

Multibeam and side-scan sonar operation image: Image Courtesy of NOAA

## p. 12

Seafloor features: Photo from NOAA's Biogeography Program

## p. 13

Side view of orange tube coral: Photo by Andy Bruckner

Research technician: Photo from NOAA's Biogeography Program

Diver: Photo from NOAA's Biogeography Program

## p. 15

Scientists on the NOAA Ship *Nancy Foster*: Photo from NOAA's Biogeography Program

## p. 17

Sea surface temperature map: Image Courtesy of NOAA

## p. 18

Report cover: Image Courtesy of NOAA

## p. 19

CoRIS website: Image Courtesy of NOAA

## p. 21

Tunicates: Photo by John Brooks, NPS image

NOAA Ship *Nancy Foster*: Photo by Andy Bruckner

## p. 23

Students at Molecular Techniques workshop: Photo by Teresa Lewis.

## p.29

Coral: Photo from NOAA's Biogeography Program

Dive boat: Image Courtesy of NPS-Harpers Ferry Center

Recreational fishermen: Photo by Paige Gill, Florida Keys National Marine Sanctuary

## p. 31

Sailboats: Image Courtesy of NPS-Harpers Ferry Center

## p. 32

St. John Beach: Image Courtesy of NPS-Harpers Ferry Center

## p. 34

island: Image Courtesy of NPS-Harpers Ferry Center

## p. 35

Top view of orange tube coral: Photo by Andy Bruckner

Rangers: Photo Courtesy of the National Park Service

People on beach: Image Courtesy of NPS-Harpers Ferry Center

## p. 40

Snorkeler inspecting coral: Photo by NPS Submerged Resources Center

## p. 43

Coral: Photo by Andy Bruckner  
Individual casting a net: Image Courtesy Guam Coral Reef Initiative Coordinating Committee

Grunts: Photo by Andy Bruckner

## p. 46

Fishing boat: Photo by Paige Gill, Florida Keys National Marine Sanctuary

## p. 49

Fish pot: Photo by Andy Bruckner

## p. 51

Community fishing: Photo by Andy Bruckner

## p. 52

Nassau Grouper: Photo by Chuck Savall

## p. 53

Sailboats: Image Courtesy of NPS-Harpers Ferry Center  
Abandoned sailboat: Photo Courtesy of NOAA Abandoned Vessel Program

## p. 56

Grounded vessel off of American Samoa: Photo Courtesy of NOAA Abandoned Vessel Program

## p. 59

Guam replanting: Photo Courtesy of Guam Dept. of Agriculture — Division of Aquatic & Wildlife Resources

## p. 60

St. Croix beach: Image Courtesy of NPS-Harpers Ferry Center

## p. 63

Sun anemone (*Stichodactyla helianthus*): Photo by John Brooks, NPS image

USDA staff at work: Photo by Bob Nichols, USDA NRCS

Sediment plume: Photo Courtesy of Guam Department of Agriculture, Division of Aquatic and Wildlife

## p. 65

Soil conservation efforts: Photodisc

## p. 66

Guam sedimentation: Image Courtesy of Guam Coral Reef Initiative Coordinating Committee

## p. 68

Governor Felix P. Camacho: Courtesy of Guam Coral Reef Initiative Coordinating Committee

## p. 71

Artificial lobster habitat in the Bahamas: Photo by Andy Bruckner

Overturned coral: Photo by Andy Bruckner

## p. 72

*Diadema*: Photo by Andy Bruckner

## p. 75

Juvenile *Diadema* with mixed coral species: Photo by Andy Bruckner

## p. 76

Elkhorn coral: Photo by Andy Bruckner

## p. 77

Coral restoration: Photo by Andy Bruckner

## p.79

Brittle Star: Photo by Andy Bruckner  
Children: Photo by Marie Lamkin

## p. 80

National Marine Sanctuary outreach event: Photo by Jeff Alexander, Hawaiian Islands Humpback Whale National Marine Sanctuary

## p. 81

Professor Kika Clearwater character: Image Courtesy of Guam Environmental Protection Agency

## p. 82

CRON logo: Image Courtesy of the State of Hawai'i

## p. 83

NPS education program: Image Courtesy of NPS-Harpers Ferry Center

## p. 86

Saipan International School water quality testing: Photo Courtesy of Qamar Schuyler, CNMI Division of Fish and Wildlife

## p.87

Spotted nudibranch: Photo by Andy Bruckner

Local fisherman: Photo by Andy Bruckner

Local fishing boats: Photo by J. Oliver, provided by ReefBase

## p. 89

Jamaican fishing community: Photo by Andy Bruckner

## p. 91

Fishing boats: Photo by J. Oliver, provided by ReefBase

## p. 93

Feather duster worm: Photo from NOAA's Biogeography Program

Fisherman: Photo by Michael Ross, provided by ReefBase

Propagation tanks: Photo by Eric Borneman

## p. 96

Stony coral curios: Photo by Andy Bruckner

## p. 98

Adult queen conch: Photo by Andy Bruckner

## p. 99

Live reef food fish trade: Image Courtesy of International MarineLife Alliance

## p. 100

Mariculture coral: Photo by Eric Borneman

## p.101

USCRTF meeting: Photo by Bill Millhouser

Cruz Bay: Photo by David Mathias, NPS image

## p. 102

USCRTF meeting: Photo by Bill Millhouser

## p. 105

Regional USCRTF meeting: Photo by Bill Millhouser

## p. 106

NPS/NOAA collaboration: Photo from NOAA's Biogeography Program



Carlos M. Gutierrez  
Secretary of Commerce  
United States Department of Commerce

Conrad C. Lautenbacher, Jr.  
Vice Admiral, U.S. Navy (Ret.)  
Under Secretary of Commerce for Oceans and Atmosphere  
National Oceanic and Atmospheric Administration