

US EPA ARCHIVE DOCUMENT

6.0 LIST OF PREPARERS

This DEIS was prepared for the U.S. Environmental Protection Agency (USEPA) Region 9 and Naval Facilities Engineering Command, Pacific (NAVFACPAC). A list of primary organizations and individuals who contributed to the preparation and review of this document include:

USEPA Region 9

Dredging and Sediment Management Team

Water Division (WTR-8)

75 Hawthorne Street

San Francisco, CA. 94105

Allan Ota, Project Manager

Brian Ross, Team Leader

The Navy technical representative for the preparation of this document is:

Naval Facilities Engineering Command Pacific

258 Makalapa Drive, Suite 100

Pearl Harbor, HI 96860-3134

John Sato, Navy Representative

The consulting firms responsible for the preparation of this document are:

TEC Inc.

514 Via de la Valle, Suite 308

Solana Beach, CA 92075

Dan Muslin, Project Director and Quality Assurance

B.S.C.E., Civil Engineering

Years of Experience: 38

Faith Caplan, Project Manager

M.S., Public Health – Environmental Health

Years of Experience: 18

Richard Stolpe, Deputy Project Manager

M.A., Geography – Coastal Geomorphology

Years of Experience: 8

Deanna Meier, Analyst

M.S., Marine Biology

Years of Experience: 10

Susan Leary, Analyst

M.A., Anthropology

Years of Experience: 12

Jason Taylor, Analyst

B.S., Environmental Sciences

Years of Experience: 11

Kathy Hall, Analyst

B.A., Earth and Environmental Science

Years of Experience: 11

Angie Buyayo, Analyst
B.A., Environmental Analysis and Design
Years of Experience: 2

Erica Mignone, GIS Specialist
B.S., Environmental Science
B.A., Biology
Years of Experience: 7

Kerry Halford, GIS Specialist
B.S., Physics
Years of Experience: 7

Jackie Brownlow, Editor
B.A., Business
Years of Experience: 4

Claudia Tan, Editor
A.A., Liberal Arts and Sciences
Years of Experience: 7

Subconsultant:

Weston Solutions Inc.
2433 Impala Drive
Carlsbad, CA 92008

David Moore, Project Manager and Quality Assurance
Ph.D., Environmental Science
Years of Experience: 23

Andrew Martin, Deputy Project Manager
B.S., Oceanography
Years of Experience: 15

Maurice Duke, Analyst
Ph.D., Toxicology and Ecotoxicology
Years of Experience: 7

Wendy Hovel, Analyst
Ph.D., Pharmacology and Toxicology
Years of Experience: 13

Meredith Baker, Analyst
B.A., Environmental Studies – Marine Ecology
Years of Experience: 3

Sheila Holt, Analyst
B.A., Aquatic Biology
Years of Experience: 14

Misty Mercier, Analyst
B.S., Marine Biology and Chemistry
Years of Experience: 8

Bill Isham, Analyst
B.S., Biological Sciences
Years of Experience: 17

Melanie McConathy, Analyst
B.A., Environmental Policy
Years of Experience: 4

Samantha Leskie, GIS Specialist
B.S., Environmental Sciences
Years of Experience: 10

Satomi Yonemasu, Data Processor and QA/QC
B.S., Biochemistry and Cell Biology
Years of Experience: 12

Matt Wartian, Editor
Ph.D., Biology
Years of Experience: 9

[This page intentionally left blank]

7.0 REFERENCES

- Abrahams, M. and M. Kattenfeld. 1997. The role of turbidity as a constraint on predator-prey interactions in aquatic environments. *Behavioral Ecology and Sociobiology*. 40: 169–174.
- Ainley 1977. Feeding methods in seabirds: a comparison of polar and tropical nesting communities in the eastern Pacific Ocean. In: *Adaptations within Antarctic ecosystems* (G. A. Llano, ed.), p. 669–685. Smithsonian Institution Press. Washington, D.C.
- Allen, G.R. 1985. FAO species catalogue. Vol. 6. Snappers of the world. An annotated and illustrated catalogue of lutjanid species known to date. FAO Fisheries Synopsis. 125(6): 208 p.
- Allen, S. and P. Bartram. 2008. Guam as a Fishing Community. Pacific Islands Fisheries Science Center. National Marine Fisheries Service, NOAA, Honolulu, HI 96822-2396. Pacific Islands Fisheries Science Center Administrative Report H-08-01. February.
- Almany, G.R., Berumen, M.L., Thorrold, S.R., Planes, S. and G.P. Jones. 2007. Local Replenishment of Coral Reef Fish Populations in a Marine Reserve. *Science*. 316.
- Amesbury, J. R. 2006. A short history of pelagic fishing in the Mariana Islands. *Pelagic Fisheries Research Program Newsletter* 11:9–11.
- Amesbury, S., Bonito, R., Chang, R., Kirkendale, L., Meyer, C., Paulay, G., Ritson-Williams, R. and T. Rongo. No Date. Marine Biodiversity Resource Survey and Baseline Reef Monitoring Survey of the Haputo Ecological Reserve Area, COMNAV MARIANAS. Marine Laboratory, University of Guam. Mangilao, Guam.
- Anderson, D.M. and P.S. Lobel. 1987. The Continuing Enigma of Ciguatera. *Biology Bulletin*. 172: 89-107.
- Ankley, G. T., Di Toro, D.M., Hansen, D.J. and W.J. Berry. 1996. Technical basis and proposal for deriving sediment quality criteria for metals. *Environmental Toxicology and Chemistry*. 15(12):2056-66.
- Baker, C.S., Perry, A., Bannister, J.L., Weinrich, M.T., Abernethy, R.B., Calambokidis, J., Lien, J., Lambertsen, R.H, Urbán Ramirez, J., Vasquez, O., Clapham, P.J., Alling, A., O'Brien, S.J. and S.R. Palumbi. 1993. Abundant mitochondrial DNA variation and world-wide population structure in humpback whales. *Proceedings of the National Academy of Sciences*. 90:8239-8243.
- Barber, P.H., Palumbi, S.R., Erdmann, M.V. and M.K. Moosa. 2002. Sharp Genetic Breaks Among Populations of *Haptosquilla pulchella* (Stomatopoda) Indicate Limits to Larval Transport: Patterns, Causes and Consequences. *Molecular Ecology*. 11.
- Barron, C.N., Kara, A.B., Rhodes, R.C., Rowley, C. and L.F. Smedstad. 2007. Validation Test Report for the 1/8 Global Navy Coastal Ocean Model Nowcast/Forecast System. Naval Research Laboratory. Report No. NRL/MR/7320-07-9019.
- Beckmann, A. and D.B. Haidvogel. 1997. A numerical simulation of flow at Fieberling Guyot. *J. Geophys. Res.* 102: 5595-5613

- Best, P.B., and C.H. Lockyer. 2002. Reproduction, growth and migrations of sei whales *Balaenoptera borealis* off the west coast of South Africa in the 1960s. *South African Journal of Marine Science*. 24: 111-133.
- Biddinger, G.R., and S.P. Gloss. 1984. The Importance of Trophic Transfer in the Bioaccumulation of Chemical Contaminants in Aquatic Ecosystems. *Residue Rev.* 91: 104-130.
- Blatt, H., Middleton, G., and R. Murray. 1972. *Origin of Sedimentary Rocks: Englewood Cliffs, New Jersey*. Prentice-Hall. 634 p.
- Boehlert, G. W. and A. Genin. 1987. A review of the effects of seamounts on biological processes. In: *Seamounts, Islands and Atolls*. Geophysical Monograph. Vol 43. American Geophysical Union. Eds. B. H. Keating, P. Fryer, R. Batiza, and G. W. Bohrlert).
- Bradbury, I.R., and P.V.R Snelgrove. 2001. Contrasting Larval Transport in Demersal Fish and Benthic Invertebrates: the Roles of Behaviour and Advective Processes in Determining Spatial Pattern. *Canadian Journal of Fisheries and Aquatic Sciences*. 58.
- Bridge, E.S., Jones, A.W. and A.J. Baker. 2005. A phylogenetic framework for the terns (Sternini) inferred from mtDNA sequences: implications for taxonomy and plumage evolution. *Molecular Phylogenetics and Evolution*. 35: 459–469.
- Brown, J., Colling, A., Park, D., Phillips, J., Rothery, D. and J. Wright. 1989a. *Seawater: Its Composition, Properties and Behaviour*. Open University Course Team. Bearman, G., ed. Pergamon Press, Oxford.
- Brown, J., Colling, A., Park, D., Phillips, J., Rothery, D. and J. Wright. 1989b. *Ocean Circulation*. Open University Course Team. Bearman, G., ed. Pergamon Press, Oxford.
- Birkeland, C.E., Craig, P., Davis, G., Edward, A., Golbuu, Y., Higgins, J., Gutierrez, J., Idechong, N., Maragos, J., Miller, K., Paulay, G., Richmond, R., Tafleichig, A., Turgeon, D. 2000. Status Of Coral Reefs Of American Samoa And Micronesia: US-Affiliated and Freely Associated Islands of the Pacific. *Status of Coral Reefs of the World*.
- Buckland, S.T., Anderson, D.R., Burnham, K.P., Lake, J.L., Borchers, D.L. and L. Thomas. 2001. *Introduction to Distance Sampling: Estimating Abundance of Biological Populations*. New York, New York. Oxford University Press.
- Buckland, S.T., Anderson, D.R., Burnham, K.P., Lake, J.L., Borchers, D.L. and L. Thomas. 2004. *Advanced Distance Sampling*. New York, New York. Oxford University Press.
- Carpenter, K.E. and G.R. Allen. 1989. *FAO Species Catalogue*. Vol. 9. Emperor fishes and large-eye breams of the world (family Lethrinidae). An annotated and illustrated catalogue of lethrinid species known to date. *FAO Species Synopsis*. 125(9): 118 p.
- Carretta, J.V., Forney, K.A., Muto, M.M., Barlow, J., Baker, J. and M. Lowry. 2004. *Draft U.S. Pacific marine mammal stock assessments: 2004*. NOAA Technical Memorandum NMFS-SWFSC.
- Central Intelligence Agency (CIA) 2008. *The World Factbook – Guam*. Available Online: <https://www.cia.gov/library/publications/the-world-factbook/geos/gq.html>. Accessed: 4 September.

- Chapman, L. 2004. Nearshore Domestic Fisheries Development in Pacific Island Countries and territories. Available Online:
<http://www.spc.int/coastfish/Reports/HOF4/PDF/IP8/Full%20document.pdf>.
- Chan and Anderson. 1981. Environmental Investigation of the Effects of Deep-Sea Mining on Marine Phytoplankton and Primary Productivity in the Tropical North Pacific Ocean. *Mar. Min* 3(1-2): 121-149.
- Clapham, P.J. and J.G. Mead. 1999. Megaptera novaeangliae. *Mammalian Species*. 604:1-9.
- Collette, B.B. and C.E. Nauen. 1983. FAO species catalogue. Vol. 2. Scombrids of the world. An annotated and illustrated catalogue of tunas, mackerels, bonitos and related species known to date. FAO Fisheries Synopsis. 125(2): 137 p.
- Croll, D.A., Clark, C.W., Calambokidis, J., Ellison, W.T. and B.R. Tershy. 2001. Effect of anthropogenic low-frequency noise on the foraging ecology of Balaenoptera whales. *Animal Conservation*. 4:13-27.
- Division of Aquatic and Wildlife Resources (DAWR), Guam. 2005a. Guam Comprehensive Wildlife Conservation Strategy (GCWCS). Department of Agriculture, Government of Guam.
- Division of Aquatic and Wildlife Resources (DAWR), Guam. 2005b. FADs and SWMs. Available Online: <http://www.guamdawr.org/aquatics/fisheries2/fads>.
- Division of Aquatic and Wildlife Resources (DAWR), Guam. 2006. Guam's Marine Preserves. Available Online: <http://www.guamdawr.org/aquatics/mpa>.
- Department of the Navy (DON). 2003. Environmental Assessment – Inner Apra Harbor Maintenance Dredging, Guam. September 2003.
- DON. 2005. Marine Resource Assessment for the Marianas Operating Area. Pacific Division, Naval Facilities Engineering Command, Pearl Harbor, Hawaii. Contract # N62470-02-D-9997, CTO 0027. Prepared by Geo-Marine, Inc. Plano, Texas.
- Donovan, G.P. 1991. A review of IWC stock boundaries. *Reports of the International Whaling Commission, Special Issue 13*: 39-63.
- Di Toro, D. M., Hansen, D.J., McGrath, J.M. and W.J. Berry. 2001. A biotic ligand model of the acute toxicity of metals; I. technical basis. *Environmental Toxicology and Chemistry* 20(10): 2383-2396.
- Eckert, K.L. 1995. Leatherback sea turtle, *Dermochelys coriacea*. National Marine Fisheries Service and FWS status reviews for sea turtles listed under ESA 1973. P.T. Plotkin, ed. National Marine Fisheries Service, Silver Spring, Maryland.
- Eckert, S.A, Eckert, K.L., Ponganis, P. and G.L. Kooyman. 1989. Diving and foraging behavior of leatherback sea turtles (*Dermochelys coriacea*). *Canadian Journal of Zoology* 67: 2834-2840.
- Eisler, R. 1986. Diazinon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. U.S. Fish and Wildlife Service, Washington D.C. Biological Report 85(1-9).
- Eldredge, L.G. 2003. The Marine Reptiles and Mammals of Guam. *Micronesica*. 35-36: 653-660.

- Emery, K.O. 1962. Marine Geology of Guam. Geological Survey Professional Paper 403-B. United States Government Printing Office. Washington, D.C.
- Enticott, J. 1997. Seabirds of the World: The Complete Reference. Stackpole Books.
- Fabricius, K.E. 2005. Effects of Terrestrial Runoff on the Ecology of Corals and Coral Reefs: Review and Synthesis. Marine Pollution Bulletin. 50.
- Federal Register. 2000. Executive Order 13158 of May 26, 2000, Marine Protected Areas. Presidential Documents. 65(105).
- Federal Register. 2003. Endangered and Threatened Wildlife and Plants; Determination of Endangered Status for the Dugong (*Dugong dugon*) in the Republic of Palau (50 CFR Part 17). 68(242).
- Fernholm. 1998. Hagfish systematics. p. 33-44. In J.M. Jørgensen, J.P. Lomholt, R.E. Weber and H. Malte (eds.) The biology of hagfishes. Chapman and Hall. London. 578 p.
- Galarza, J.A., J. Carreras-Carbonell, E. MacPherson, M. Pascual, S. Roques, G. F. Turner and C. Rico. 2009. The Influence of Oceanographic Fronts and Early-Life-History Traits on Connectivity Among Littoral Fish Species. Proceedings of the National Academy of Sciences. 106(5).
- Gaston, A. J. 2004. Seabirds A Natural History. Yale University Press.
- Gaus, C., Brunskill, G.J., Cornell, D.W., Muller, J.F., Papke, O., Prange, J. and R. Weber. 2002. Transformation Processes, Pathways, and Possible Sources of Distinctive Polychlorinated Dibenzo-p-dioxin Signatures in Sink Environments. Environmental Science and Technology. 36(16).
- Genin, A. 2004. Bio-physical coupling in the formation of zooplankton and fish aggregations over abrupt topographies. In press: J. Marine Systems.
- Gerachi, J.R. and D.J St. Aubin. 1987. Effects of parasites on marine mammals. International Journal for Parasitology. 17(2): 407-414.
- Gilmour, J. 1999. Experimental Investigation into the Effects of Suspended Sediment on Fertilisation, Laval Survival and Settlement in a Scleractinian Coral. Marine Biology. 135.
- Gon. 1990. Gonostomatidae. p. 116-122. In O. Gon and P.C. Heemstra (eds.) Fishes of the Southern Ocean. J.L.B. Smith Institute of Ichthyology, Grahamstown, South Africa. 462 p.
- Government of Guam (GOVGUAM). 2003. Guam Territorial Seashore Protection Act of 1974, Title 21, Real Property. Organic Act of Guam, Guam Code Annotated. Public Law 27-23. July 7.
- Gregr, E.J. and A.J. Trites. 2001. Predictions of critical habitat for five whale species in the waters of coastal British Columbia. Canadian Journal of Fisheries and Aquatic Sciences 58: 1265-1285.
- Guam Division of Aquatic and Wildlife Resources. 2009. Reef Fish Fact Sheets. Available Online: www.guamdawr.org.
- Guam Power Authority. 2005. Guam Typhoons. Available Online: <http://www.guampowerauthority.com/news/restoration.html>.

- Guam Visitors Bureau (GVB). 2007. Annual Report.
- GVB. 2008. Diving the Exciting Waters of Guam. Available Online: www.visitguam.org/activities/?pg=dive. Accessed 8 September.
- Hain, J.H.W., Ratnaswamy, M.J., Kenney, R.D. and H.E. Winn. 1992. The fin whale, *Balaenoptera physalus*, in waters of the northeastern United States continental shelf. Reports of the International Whaling Commission 42: 653-669.
- Heemstra, P.C. and J.E. Randall. 1993. FAO species catalogue. Vol. 16. Groupers of the world (family Serranidae, subfamily Epinephelinae). An annotated and illustrated catalogue of the grouper, rockcod, hind, coral grouper and lyretail species known to date. FAO Fisheries Synopsis 125(16): 382 p.
- Henkel, L.A. 2006. Effect of water clarity on the distribution of marine birds in nearshore waters of Monterey Bay, California. *J. Field Ornithol.* 77(2): 151-156.
- Holt, E., Alberts, V., Gaus, C., Hawker, D., Vetter, W., Von der Recke, R., and R. Weber. 2008. Assessing Dioxin Precursors in Pesticide Formulations and Environmental Samples as a Source of Octachlorodibenzo-p-dioxin in Soil and Sediment. *Environmental Science and Technology.* 42(5).
- Horwood, J. 1987. The sei whale: population biology, ecology and management. New York, New York: Croom Helm in association with Methuen, Inc.
- Hunter, C.L. 1995. Review of coral reefs around American Flag Pacific Islands and assessment of need, value, and feasibility of establishing a coral reef fishery management plan for the Western Pacific Region. Final Report. Western Pacific Regional Fishery Management Council. Honolulu, HI. 30 pp.
- International Union Conservation of Nature (IUCN). 2008. Available Online: http://www.iucnredlist.org/info/categories_criteria1994#criticall.
- Jokiel, P.L. 1989. Effects of marine mining dredge spoils on eggs and larvae of a commercially important species of fish, the Mahimahi (*Coryphaena hippurus*). *Marine Minerals.* 8: 305-315.
- Jones, G.P., Planes, S., and S.R. Thorrold. 2005. Coral Reef Fish Larvae Settle Close to Home. *Current Biology.* 15.
- Jones, G.P., Srinivasan, M. and G.R. Almany. 2007. Population Connectivity and Conservation of Marine Biodiversity. *Oceanography.* 20(3).
- Josse, E.L., Dagorn, L., and A. Bertrand. 2000. Typology and Behaviour of Tuna Aggregations Around Fish Aggregating Devices from Acoustic Surveys in French Polynesia. *Aquatic Living Resources.* 13(4): 183-192.
- Kay, S.H. 1984. Potential for Biomagnification of Contaminants within Marine and Freshwater Food Webs. Technical Report D-84-7 by the U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS.
- Kenney, R.D., Scott, G.P., Thompson, T.J. and H.E. Winn. 1997. Estimates of prey consumption and trophic impacts of cetaceans in the USA northeast continental shelf ecosystem. *Journal of Northwest Atlantic Fisheries Science.* 22:155-17.

- Kingsford, M. J. 1999. The Ecology of and Fishery for *Coryphaena* spp. in Waters Around Australia and New Zealand: *Scientia Marina* 63: 3-4.
- Kunze, E. and J.M. Toole. 1997. Tidally-Driven Vorticity, Diurnal Shear and Turbulence Atop Fieberling Seamount. *J. Phys. Oceanography*. 27: 2663-2693.
- Lalli C.M. and T.R. Parsons. 1993. *Biological Oceanography: An Introduction*. Butterworth-Heinemann Ltd. Oxford.
- Larson, K. 2007. "Bad Blood". *On Earth* (Winter 2008).
- Lau, S., Mohamed, M., Yen, A.T.C. and S. Su'ut. 1998. Accumulation of heavy metals in freshwater mollusks. *Science of the Total Environment*. 214: 113-121.
- Laughlin, R.B., French, W. and H.E. Guard. 1986. Accumulation of Bis(tributyltin) Oxide by the Marine Mussel *Mytilus edulis*. *Environmental Science and Technology*. 20: 884-890.
- Lehane, L. and R.J. Lewis. 2000. Ciguatera: Recent Advances but the Risk Remains. *International Journal of Food Microbiology*. 61: 91-125.
- Lopez-Ortiz, R. 2009. The Diet of Masked, Brown, and Red-footed Boobies (Sulidae: Pelicaniformes) in the Mona Passage, Puerto Rico. University of Puerto Rico.
- Luoma, S.N. 1989. Can we determine the biological availability of sediment-bound trace elements? *Hydrobiologia*. 176: 379-401.
- Masaki, M. 1972. Tagging Investigations of Whales in Ogasawara and Mariana Islands. *Geiken Tsushin* 249: 35-42. In Eldridge, L.G., 2003. *The Marine Reptiles and Mammals of Guam*. *Micronesica*. 35-36: 653-600.
- Matsumoto, W. M. 1984. Potential impact of deep seabed mining on the larvae of tunas and billfishes. U.S. Department of Commerce. National Oceanic and Atmospheric Agency Technical Memorandum. NMFS. NOAA-TM-NMFS-SWFC-44. 53 p.
- McCave, I.N. and J.P.M. Syvitski. 1991. Principles and methods of particle size analysis. In: J.P.M. Syvitski, ed. *Principles, Methods, and Applications of Particle Size Analysis*. Cambridge University Press, New York, NY. p. 3-21.
- Merrett, N.R. 1990. Chlorophthalmidae. p. 351-360. In J.C. Quero, J.C. Hureau, C. Karrer, A. Post and L. Saldanha (eds.). *Check-list of the fishes of the eastern tropical Atlantic (CLOFETA)*. JNICT, Lisbon; SEI, Paris; and UNESCO, Paris. Vol. 1.
- Myers, R.F. and NOAA. 1993. Guam's small-boat-based-fisheries. *Fisheries of Hawaii and U.S.-associated Pacific Islands*.
- Nakamura, I. 1985. *FAO species catalogue*. Vol. 5. *Billfishes of the world*. An annotated and illustrated catalogue of marlins, sailfishes, spearfishes and swordfishes known to date. *FAO Fisheries Synopsis*. 125(5): 65 p.
- The Nature Conservancy. 2008. *Coral Reefs: A Reef Resilience Toolkit Module*. Available Online: http://www.reefresilience.org/Toolkit_Coral/C1c3_Connectivity.html. Accessed: 29 June 2009.
- Naval Facilities Engineering Pacific (NAVFAC PAC). 1986. *Management Plan for the Orote Peninsula Ecological Reserve Area*.

- NAVFACPAC. 2009. Draft Guam and CNMI Military Relocation Environmental Impact Statement/Overseas Environmental Impact Statement. Volume 2 (Marine Corps Relocation), Chapter 4 (Water Resources). Prepared by TEC JV for Naval Facilities Engineering Command Pacific Region. Contract: N62742-06-D-1870. November. Available Online: http://guambuildupeis.us/documents/volume_2/Volume%202%20Chapter%204.pdf. Accessed: 8 March 2010.
- Nielsen J.G., Cohen, D.M., Markle, D.F. and C.R. Robins. 1999. Ophidiiform fishes of the world (Order Ophidiiformes). An annotated and illustrated catalogue of pearlfishes, cusk-eels, brotulas and other ophidiiform fishes known to date. FAO Fisheries Synopsis No. 125, Vol. 18. Rome, FAO.
- National Oceanic and Atmospheric Administration (NOAA). 2008a. Coral Reef Watch: Sea Surface Temperature and Degree Heating Weeks Time Series and Satellite Bleaching Alerts. Available Online: http://www.coralreefwatch.noaa.gov/satellite/data_nrt/timeseries/all_Guam.txt.
- NOAA. 2008b. National Marine Fisheries Service, Office of Protected Resources. Available Online: <http://www.nmfs.noaa.gov/pr/species/mammals/cetaceans>. Accessed 12 September.
- NOAA. 2009a. Oceanic and Atmospheric Administration. National Data Buoy Center. Available Online: http://www.ndbc.noaa.gov/station_history.php?station=aprp7.
- NOAA. 2009b. National Oceanic and Atmospheric Administration. Multivariate ENSO Index (MEI). Earth System Research Laboratory, Physical Sciences Division. Updated September 4.
- National Marine Fisheries Service (NMFS). 1998. Draft recovery plan for the fin whale *Balaenoptera physalus* and sei whale *Balaenoptera borealis*. Prepared by R.R. Reeves.
- NMFS. 2008. Lunartail Grouper: Life History. Available Online: http://www.nmfs.noaa.gov/habitat/habitatprotection/profile/westernpacific/lunartail_group_erhome.htm. Accessed 12 September.
- NMFS and USFWS. 1998a. Recovery plan for U.S. Pacific populations of the hawksbill turtle (*Eretmochelys imbricata*). National Marine Fisheries Service, Silver Spring, Maryland.
- NMFS and USFWS. 1998b. Recovery plan for U.S. Pacific populations of the leatherback turtle (*Dermochelys coriacea*). National Marine Fisheries Service, Silver Spring, Maryland.
- NMFS and USFWS. 1998c. Recovery plan for U.S. Pacific populations of the loggerhead turtle (*Caretta caretta*). National Marine Fisheries Service, Silver Spring, Maryland.
- NMFS and USFWS. 1998d. Recovery plan for U.S. Pacific populations of the olive ridley turtle (*Lepidochelys olivacea*). National Marine Fisheries Service, Silver Spring, Maryland.
- NMFS and USFWS. 2007a. Green sea turtle (*Chelonia mydas*), 5-year review: summary and evaluation. Prepared by the National Marine Fisheries Service and U.S. Fish and Wildlife Service.

- NMFS and USFWS. 2007b. Loggerhead sea turtle (*Caretta caretta*), 5-year review: summary and evaluation. Prepared by the National Marine Fisheries Service and U.S. Fish and Wildlife Service.
- NMFS. 2007. US Pacific Islands Regional Office, Honolulu, HI. Department of Commerce. National Oceanographic and Atmospheric Administration. Summary of Western Pacific General Longline Fishing Regulations, For Vessel Owners and Operators Fishing Around Guam, Northern Mariana Islands or PRIA1. October 16.
- National Park Service (NPS). 2004. Inventory and Monitoring Program. Pacific Island Network Monitoring Plan. Supporting Documents: War in the Pacific National Historical Park Resource Overview.
- National Weather Service (NWS). 2004. Normals, Means and Extremes for Guam International Airport (1945-Present). Available Online: <http://www.prh.noaa.gov/guam/normal.html>. Forecast Office.
- Nybakken, J.W. 2001. Marine Biology: An Ecological Approach, 5th Addition. Ed. Benjamin Cummings. San Francisco, CA.
- Pacific Islands Fisheries Science Center (PIFSC). 2009. Guam Fishery Statistics. Available Online: <http://www.pifsc.noaa.gov/wpacfin/guam/dawr/pages>.
- Paffenhöfer, G.A. 1972. The effects of suspended "red mud" on mortality, body weight, and growth of the marine planktonic copepod, *Calanus helgolandicus*. Water, Air, and Soil Poll. 1: 314-321.
- Port Authority of Guam (PAG). 2008. Available Online: <http://www.portofguam.com/>. Last updated September 4, 2008. Accessed September 5, 2008.
- Palko, B.J., Beardsley, G.L. and W.J. Richards. 1982. Synopsis of the biological data on dolphin-fishes, *Coryphaena hippurus* Linnaeus and *Coryphaena equiselis* Linnaeus. FAO Fish. Synop. (130); NOAA Tech. Rep. NMFS Circ. (443).
- Palumbi, S.R. 2003. Population Genetics, Demographic Connectivity, and the Design of Marine Reserves. Ecological Applications. 13(1).
- Parenti, P. and J.E. Randall. 2000. An annotated checklist of the species of the labroid fish families Labridae and Scaridae. Ichthyol. Bull. J.L.B. Smithsonian Institute Ichthyology. 68: 1-97.
- Paxton, J.R., Hoese, D.F., Allen, G.R. and J.E. Hanley. 1989. Pisces. Petromyzontidae to Carangidae. Zoological Catalogue of Australia. Vol. 7. Australian Government Publishing Service. Canberra. 665 p.
- Payne R. S., and D. Webb. 1971. Orientation by means of long range acoustic signaling in baleen whales. Ann. N.Y. Acad. Sci. 188: 110-141.
- Pacific ENSO Applications Center (PEAC). 2006. Pacific ENSO Update, 1st Quarter. Volume 12, Number 1. February 3.
- PEAC. 2009. Pacific ENSO Update, 1st Quarter. Volume 15, Number 1. January 22.
- Pennekamp, J.G.S. and M.P. Quaak. 1990. Impact on the environment of turbidity caused by dredging. Terra et Aqua. 42: 10-20.

- Pequagnat, W.E, Gallaway, B.J. and T.D. Wright. 1990. Revised Procedural Guide for Designation Surveys of Ocean Dredged Material Disposal Sites. Technical Report D-90-8. USACE Waterways Experiment Station, Vicksburg, MS. April.
- Porteiro, F.M. and T.T. Sutton. 2007. Chapter 6: Midwater fish assemblages and seamounts..Pp. 101-116. In: Seamounts: Ecology, Conservation and Management. Fish and Aquatic Resources Series. T.J. Pitcher, T. Morato, P.J.B. Hart, M.R. Clark, N. Haggan and R.S. Santos, Eds. Blackwell. Oxford. UK.
- Randall, J.E. 1987. Three nomenclatorial changes in Indo-Pacific surgeonfishes (Acanthuridae). *Pacific Science*. 41(1-4): 54-61.
- Randall, J.E., Allen, G.R. and R.C. Steene. 1990. *Fishes of the Great Barrier Reef and Coral Sea*. University of Hawaii Press, Honolulu, Hawaii. 506 p.
- Reeves, R.R., Leatherwood, S., Stone, G.S. and L.G. Eldredge. 1999. *Marine mammals in the area served by the South Pacific Regional Environment Programme (SPREP)*. Asia, Samoa: South Pacific Regional Environment Programme.
- Reid, J. L. 1997. On the Total Geostrophic Circulation of the Pacific Ocean: Flow Patterns, Tracers, and Transports. *Progress in Oceanography*. 39: 263-352.
- Schaefer, K. M., Fuller, D.W. and B.A. Block. 2007. Movements, Behavior, and Habitat Utilization of Yellowfin Tuna (*Thunnus albacores*) in the Northeastern Pacific Ocean, Ascertained Through Archival Tag Data. *Marine Biology* 152: 503-525.
- Schilling, M.R., Seipt, I., Weinrich, M.T., Frohock, S.E., Kuhlberg, A.E. and P.J. Clapham. 1992. Behavior of individually-identified sei whales *Balaenoptera borealis* during an episodic influx into the southern Gulf of Maine in 1986. *Fishery Bulletin* 90: 749-755.
- Shanks, A.L., Grantham, B.A. and M.H. Carr. 2003. Propagule Dispersal Distance and the Size and Spacing of Marine Reserves. *Ecological Applications*. 13(1).
- Siedler, G., Holfort, J., Zenk, W., Muller, T.J. and T. Csernok. 2004. Deep-Water Flow in the Mariana and Caroline Basins. *Journal of Physical Oceanography*. 34: 566-581.
- Smith M.M. and P.C. Heemstra. 1986. *Smiths' Sea Fishes*. Springer Verlag, Berlin-Heidelberg-New York.
- Spear L. and D. Ainley. 1997. *Surveying Marine Birds and Mammals at Sea, A Manual*. H.T. Harvey and Associates. Alviso, CA.
- Spear, L.B., Ainley, D.G. and W.A. Walker. 2007. *Foraging Dynamics of Seabirds in the Eastern Tropical Pacific Ocean*. *Studies in Avian Biology*. No. 35. Cooper Ornithological Society.
- SRS Parsons JV, Geo-Marine, Inc. and Bio-waves, Inc. 2007. *Marine Mammal and Sea Turtle Survey and Density Estimates for Guam and the Commonwealth of the Northern Mariana Islands*. Prepared for Naval Facilities Engineering Command, Pacific.
- Te, F.T. 1992. Response to Higher Sediment Loads by *Pocillopora damicornis* Planulae. *Coral Reefs*. 11.
- Tomas, C. R., Throndsen, J. and B. Heimdell. 1997. *Identifying Marine Phytoplankton*. Academic Press.

- Tracey, J.I., Schlanger, S.O., Stark, J.T., Doan, D.B and H.G. May 1964. General Geology of Guam. Geological Survey Professional Paper 403-A. United States Government Printing Office, Washington D.C.
- URS Corporation. 2001. Final Environmental Impact Statement: Fishery Management Plan, Pelagic Fisheries of the Western Pacific Region. Prepared for National Oceanic and Atmospheric Administration, National Marine Fisheries Service.
- U.S. Department of Defense. 2008. Control of the Brown Tree Snake (BTS). Report to Congress by the Office of the Secretary of Defense, Deputy Under Secretary of Defense (Installations and Environment). Available Online:
<http://www.afpmb.org/docs/bts/TAB%20B%20BTS%20REPORT%20TO%20CONGRES S%20Aug%20FINAL.pdf>
- U.S. Environmental Protection Agency (USEPA). 2000. Analysis of Commercial Marine Vessels Emissions and Fuel Consumption Data. EPA 420-R-00-002.
- USEPA. 2003. National Air Quality and Emissions Trends Report, Special Studies Report. Office of Air Quality Planning and Standards. EPA Publication 454/R-03-005.
- USEPA and USACE. 1991. Evaluation of Dredged Material Proposed for Ocean Disposal: Testing Manual (Ocean Testing Manual). EPA 503/8-91/001. EPA Office of Water, Washington, DC. February.
- USEPA and USACE. 1998. Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. - Testing Manual and Fact Sheet. USEPA-823-F-98-005. February. Available Online: <http://www.epa.gov/waterscience/itm/ITM/>.
- USEPA and USACE. 2004. Evaluating Environmental Effects of Dredged Material Management Alternatives --A Technical Framework. USEPA842-B-92-008. Revised May 2004.
- U.S. Fish and Wildlife Service (USFWS). 2008. Species Report: Dugong. Available Online. <http://ecos.fws.gov/speciesProfile/SpeciesReport.do?spcode=A033>
- U.S. Naval Maritime Forecast Center/Joint Typhoon Warning Center. 2007. Annual Tropical Cyclone Report. Lt. Michael Vancas, USN editor.
- Waite, M.E., Waldock, M.J., Thain, J.E., Smith, D.J. and S.M Milton. 1991. Reductions in TBT concentrations in UK estuaries following legislation in 1986 and 1989. Marine Environmental Research. 32: 89-111.
- Weilgar, L.S. 2007. The impacts of anthropogenic ocean noise on cetaceans and implications for management. Can. J. Zool. 85: 1091-1116.t.
- Wen, X., De Carlo, E.H. and Y.H. Li. 1997. Interelement relationships in ferromanganese crusts from the central Pacific ocean: Their implications for crust genesis. Marine Geology. 136: 277-297.
- Weston Solutions and Belt Collins. 2006. Zone of Siting Feasibility Study Ocean Dredged Material Disposal Site. Apra Harbor, Guam. Prepared for Department of the Navy, Naval Facilities Engineering Command, Pacific.
- Weston Solutions and Belt Collins. 2007a. Final Sampling and Analysis Plan For Baseline Studies. Conducted for the Designation of an Ocean Dredged Material Disposal Site.

- Apra Harbor, Guam. Prepared for Department of the Navy, Naval Facilities Engineering Command, Pacific.
- Weston Solutions and Belt Collins. 2007b. Ocean Current Study Ocean Dredged Material Disposal Site. Apra Harbor, Guam. Prepared for Department of the Navy, Naval Facilities Engineering Command, Pacific.
- Weston Solutions and Belt Collins. 2007c. Dredged Material Sampling and Tier III Analysis Evaluation for Apra Harbor Projects (P-436, P-502, P-518), Guam. Prepared for Department of the Navy, Navy Facilities Engineering Command, Pacific.
- Weston Solutions and Hawaii Pacific Engineers. 2006. Reconnaissance and Scoping Study Ocean Dredged Material Disposal Site. Apra Harbor, Guam. Prepared for Department of the Navy, Naval Facilities Engineering Command, Pacific.
- Weston Solutions and TEC. 2008a. Dredged Material Upland Placement Study Apra Harbor, Guam. Prepared for Department of the Navy, Naval Facilities Engineering Command, Pacific.
- Weston Solutions and TEC. 2008b. Field Report Baseline Studies Conducted for the Designation of an Ocean Dredged Material Disposal Site, Apra Harbor, Guam. Prepared for Department of the Navy, Naval Facilities Engineering Command, Pacific.
- White J.R. and M.J Dagg 1989. Effects of suspended sediments on egg production of the calanoid copepod *Acartia tonsa*. *Mar. Biol.* 102: 315-319.
- Wickstead, J.H. 1965. *An Introduction to the Study of Tropical Plankton*. London: Hutchinson and CO.
- Wiles. 2003. A checklist of birds recorded in Guam's marine habitats. *Micronesica*. 35-36: 661-675.
- Withers, N.W., 1982. Ciguatera Fish Poisoning. *Annual Review of Medicine*. 33: 97-111.
- Wolanski, E., Richmond, R.H., Davis, G., Deleersnijder, E. and R.R. Leben. 2003. Eddies Around Guam, an Island in the Marianas Islands Group. *Continental Shelf Research*. 23: 991-1003.
- Western Pacific Regional Fishery Management Council (WPRFMC). 2004. EFH/HAPC Designations for Fishery Management Units Covered Under the Bottomfish, Crustacean, Pelagic, Precious Corals and Coral Reef Ecosystem Fishery Management Plans. Honolulu, Hawaii.
- WPRFMC. 2006. Bottomfish and Seamount Groundfish Fisheries of the Western Pacific Region. Prepared by the Bottomfish Plan Team and Council Staff. 2005 Annual Report. 30 June.
- WPRFMC. 2007. Pelagic Fisheries of the Western Pacific Region. Prepared by the Pelagics Plan Team and Council Staff. 2006 Annual Report. 30 June.
- Yasumoto, T., Inoue, A., Bagnis, R. and M. Garcon. 1979. Ecological Survey on a Dinoflagellate Possibly Responsible for the Induction of Ciguatera. *Bulletin of the Japanese Society of Scientific Fisheries*. 45(3): 395-399.

Yasumoto, T., Inoue, A., Ochi, T., Fujimoto, K., Oshima, Y., Fukuyo, Y., Adachi, R. and R. Bagnis. 1980. Environmental Studies on a Toxic Dinoflagellate Responsible for Ciguatera. Bulletin of the Japanese Society of Scientific Fisheries. 46(11): 1397-1404.