

Curriculum Vitae –December, 2024

NAME: MARC R. RICE

PRESENT POSITION:

Co-Director, HPA Sea Turtle Research Program

Member, Marine Turtle Specialist Group, IUCN

ORGANIZATION:

Hawaii Preparatory Academy

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PROFESSIONAL POSITIONS:

2004-2024- Director Information Technology Services

1987-present Co-Director, HPA Sea Turtle Research Program

2008-2016 Chairman, Computer Science Department

1976-2022 Diving Safety Officer, Hawaii Preparatory Academy

(NAUI Instructor # 4404) Member AAUS

Director of Boating and Boating Safety (USCG Captain License #780985)

1997-2004 Assistant Headmaster, Hawaii Preparatory Academy

Director of Information Technology Department

1981-1996 Director of Studies, Hawaii Preparatory Academy

1980-1981 Sabbatical Leave, Science Teacher at the American School of Paris

1976-1980 Chairman, Science Department, Hawaii Preparatory Academy

1972- 1976 Science Teacher- Natural Sciences, Chemistry, Physical Science

1970-1972 United States Army, Viet Nam Veteran Honorably Discharged, 1972

EDUCATION:

1968-1970 University of Hawaii, Manoa. Major: Zoology. Master of Science

1964-1968 Humboldt State University. Major: Biology. Bachelor of Science, Magna Cum Laude.

PROFESSIONAL AFFILIATIONS:

Marine Turtle Specialist Group of the International Union for Conservation of Nature,
Oceania Region

American Association of Underwater Sciences

National Association of Underwater Instructors

National Marine Educators Association

AFFILIATION WITH SEA TURTLE RESEARCH, CONSERVATION AND EDUCATION:

Since 1987 I have worked cooperatively with NOAA/NMFS as the Director of the Hawaii Preparatory Academy Sea Turtle Research Program. I have conducted/been part of over 365 field expeditions to capture, tag, measure and assess green, hawksbill, loggerhead and olive ridley turtles in the Pacific ocean. The majority of my work has taken place on Hawaii Island but I have worked extensively on Oahu, Maui, Molokai, Lanai and the Northwestern Hawaiian Islands. In addition to Hawaii, I have conducted sea turtle research projects in Japan, Australia, American Samoa, New Caledonia, Palmyra Atoll, Republic of Vanuatu, Fiji and Midway Atoll.

Publications:

Downs, C. A., Diaz-Cruz, M. S., White, W. T., Rice, M., Jim, L., Punihaole, C., Dant, M., Gautam, K., Woodley, C. M., Walsh, K. O., Perry, J., Downs, E. M., Bishop, L., Garg, A., King, K., Paltin, T., McKinley, E. B., Beers, A. I., Anbumani, S., & Bagshaw, J. (2022). Beach showers as sources of contamination for sunscreen pollution in marine protected areas and areas of Intensive Beach Tourism in Hawaii, USA. *Journal of Hazardous Materials*, 438, 129546. <https://doi.org/10.1016/j.jhazmat.2022.129546>

Briscoe Dana K., Turner Tomaszewicz Calandra N., Seminoff Jeffrey A., Parker Denise M., Balazs George H., Polovina Jeffrey J., Kurita Masanori, Okamoto Hitoshi, Saito Tomomi, Rice Marc R., Crowder Larry B. 2021. Dynamic Thermal Corridor May Connect Endangered Loggerhead Sea Turtles Across the Pacific Ocean. *Frontiers in Marine Science*. Vol. 8, pp.185.

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Rice M.R., Jim L.M.R., Hickey F.R. 2020. Post Nesting Migrations of Hawksbill Turtles (*Eretmochelys imbricata*) Nesting at Moso Island, Republic of Vanuatu- Summary Report. Report to the Fisheries Department, Government of the Republic of Vanuatu.

Briscoe, D.K., D.M.Parker, G.H. Balazs, M. Kurita, T. Saito, H.Okamoto, M. Rice, J.J. Polovina and L.B.Crowder. 2018. Active dispersal in loggerhead sea turtles (*Carretta caretta*) during the 'lost years'. *Proc. R. Soc. B* 283: 20160690

Shaw, K. R., Lynch, J. M., G. H. Balazs, G. H., T. T. Jones, J. Pawloski, , M. R. Rice, A. D., French, J.Liu, G. P. Cobb, & D. M. Klein. 2020. Trace element concentrations in blood and scute tissues from wild and captive Hawaiian green sea turtles (*Chelonia mydas*). *Environmental Toxicology and Chemistry*, 40(1), 208–218. <https://doi.org/10.1002/etc.4911>

Briscoe, D.K., D.M. Parker, S. Bograd, E.Hazen, K.Scales, G.H.Balazs, M. Kurita, T.Saito, H.Okamoto, M.Rice, J.J. Polovina and L.B.Crowder.2016. Multi-year tracking reveals extensive pelagic phase of juvenile loggerhead sea turtles in the North Pacific. *Movement Ecology* (4:23).

Saito, T., M. Kurita, H. Okamoto, Y. Kakizoe, D. Parker, M. Rice, J. Polovina & G. Balazs 2018. Satellite tracking immature loggerhead turtles in temperate and subarctic ocean habitats around the Sea of Japan. *Micronesica*. 2018-3: 1-20

McDermid, K.J., R. Jha, M.R. Rice & G.H. Balazs 2018. Of turtles and trees: Nutritional analysis of tree heliotrope (*Heliotropium foertherianum*) leaves consumed by green turtles (*Chelonia mydas*) in Hawai'i. *Micronesica*. 2018-02: 1-11

Balazs, G.H., D.M. Parker & M.R. Rice 2017. Ocean pathways and residential foraging locations for satellite tracked green turtles breeding at French Frigate Shoals in the Hawaiian Islands. *Micronesica*. 2017-04: 1-19

Allen, Camryn D. Summer L. Martin, Jennifer M. Lynch, Tammy M. Summers, Jessy Hapdel, Marc Rice, Jeffrey A. Seminoff, T. Todd Jones. 2017. How many males are enough? Feminization of green sea turtle foraging aggregations in the Pacific. Proceedings of the 37th International Symposium on Sea Turtle Biology and Conservation. Las Vegas, Nevada.

Donham, Emily, Michael S. Foster, Marc R. Rice, Gregor M. Cailliet, Mary M. Yoklavich, and Scott L. Hamilton. 2017. Natural history observations of Hawaiian garden eels, *Gorgasia hawaiiensis* (Congridae: Heterocongrinae), at the Island of Hawai'i. Pacific Science vol. 71, no. 2:135-147.

Balazs, George H., Marc Rice, Denise Parker and Jeffrey Polovina. 2015. Ships of Opportunity: Releasing Satellite-Tagged Loggerheads on the High Seas to Study Their Pelagic Ecology. Proceedings of the 35th International Symposium on Sea Turtle Biology and Conservation. Dalaman, Magla, Turkey.

Parker, D.M., G.H. Balazs, M.R. Rice, S.M. Tomkeiwicz. 2014. Variability in Reception Duration of Dual Satellite Tags on Sea Turtles Tracked in the Pacific Ocean. Micronesica 2014-03, 8pp. Published online 26 June 2014.

Lee, S.H., Rice, M.R., Balazs, G.H. (in Press). A Novel Use of An Ancient Hawaiian Fishpond by Green Turtles (*Chelonia mydas*). Proceedings of the 34th International Symposium on Sea Turtle Biology and Conservation. New Orleans, LA. 2014.

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Jennifer M. Keller, George H. Balazs, Brenda A. Jensen, Frances Nilsen, Marc R. Rice, and Thierry M. Work. 2013. A Preliminary Screening of Persistent Organic Pollutant Concentrations in Hawaiian Green Turtle Plasma in Relation to Fibropapillomatosis. Proceedings of the Thirty-Third Annual Symposium on Sea Turtle Biology and Conservation, Baltimore, Maryland.

Rice, M.R. and G.H. Balazs. (2011) Survey of Basking Green Turtles at Midway Atoll. Proceedings of the 32nd International Sea Turtle Symposium, San Diego, CA.

Kobayashi, D.R., R. Farman, D. Parker, J.J. Polovina, A.S. Ren, M.R. Rice, & G.H. Balazs. (in press). Pelagic Habitat Characterization of Loggerhead Turtles, *Caretta caretta*, in the South Pacific Ocean (2008-2009): Insights from Satellite Tag Tracking and Environmental Data. Proceedings of the 32nd International Sea Turtle Symposium, San Diego, CA.

Rice, M. R. and G. H. Balazs. 2010. Hawaiian Green Turtles Dive to Record Depths During Oceanic Migrations. Kama, D. and M. C. Lopex Castro Compilers. Proceedings of the Twenty-Eighth Annual Symposium on Sea Turtle Biology and Conservation, January 22-26, 2008. NOAA Technical Memorandum NMFS-SEFSC-602.

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Rice, M. R., G. H. Balazs, D. K. Kopra, and G. C. Whittow. 2002. Ecology and behavior of green turtles basking at Kiholo Bay, Hawaii. In A. Mosier, A. Foley, and B. Brost (comps.), Proceedings of the Twentieth Annual Symposium on Sea Turtle Biology and Conservation, February 29-March 4, 2000, Orlando, Florida, p. 153-155. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFSC-477.

Rice, M. R., G. H. Balazs, and D. Zatz. 2002. Seaturtlecam: Live interactive video feed of basking Hawaiian green turtles. Mosier, A., Foley, A., Brost, B. Compilers, Proceedings of the Twentieth Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC-477. 369 pp.; 2002, p. 316-318

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Balazs, G. H., M. R. Rice, N. Hoffman, S. K. K. Murakawa, and D. M. Parker. 2005 . Green turtle foraging and resting habitats at Midway Atoll: Significant findings over 25 years, 1975-2000. Coyne, M.S. and R.D. Clark Compilers. Proceedings of the Twenty-first Annual Symposium on Sea Turtle Biology and Conservation, February 24-28, 2001, Philadelphia, Pennsylvania. NOAA Technical Memorandum NMFS-SEFSC 528.

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Davis, E. E., M. R. Rice, K. A. Harrington, and G. H. Balazs. 2000. Green turtle diving and foraging patterns at Puako, Hawaii. In H. Kalb and T. Wibbels (comps.), Proceedings of the Nineteenth Annual Symposium on Sea Turtle Biology and Conservation, March 2-6, 1999, South Padre Island, Texas, p. 153-154. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFSC-443.

Balazs, G. H., M. Rice, S. K. K. Murakawa, and G. Watson. 2000. Growth rates and residency of immature green turtles at Kiholo Bay, Hawaii. In F.A. Abreu-Grobois, R. Briseño-Dueñas, R. Márquez-Millán, and L. Sarti-Martínez (comps.), Sixteenth Symposium Proceedings Addendum in the Proceedings of the Eighteenth International Sea Turtle Symposium, March 3-7, 1998, Mazatlán, Sinaloa, México, p. 283-285. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SEFSC-436.

Finn, M. A. and M. R. Rice. 1994. Hawaiian monk seal observations at Necker Island, 1993. 'Elepaio. 55(9):55-58.