









Mr. Rice











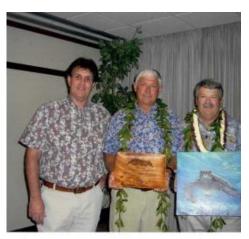
Above: With the help of Mr. Rice, we are able to learn about the secrets of the ocean.





"Many of us, me included, lived for that two hours of exercise as we relived our youth and believed we had game."

- Mr. John Colson

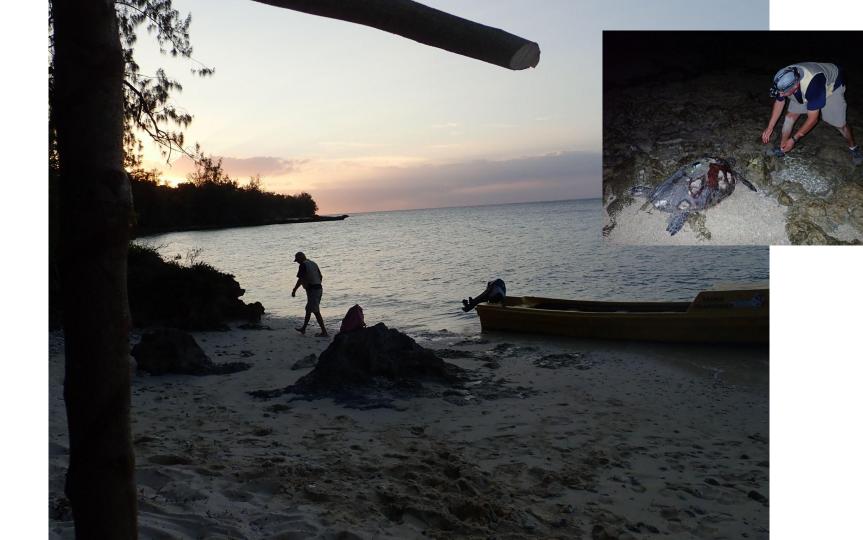






Pursuit of excellence: striving for the highest and best results

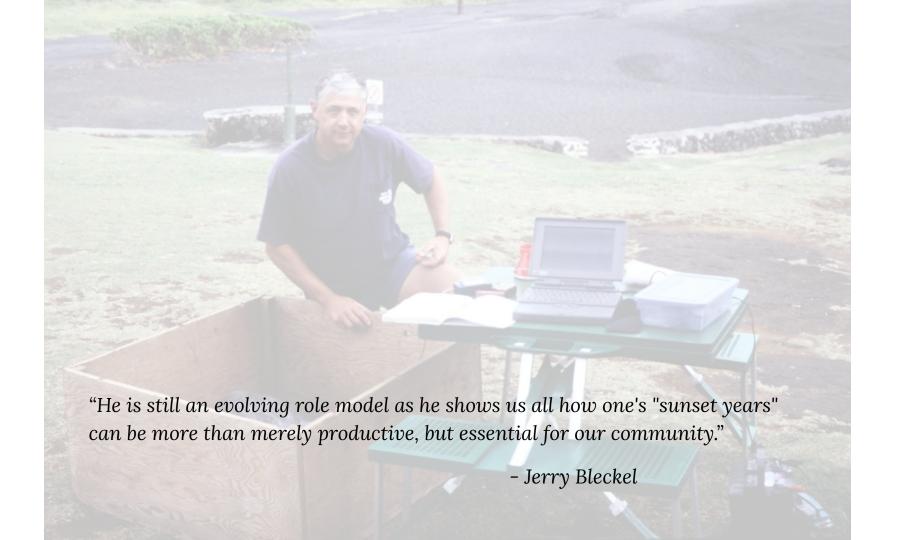
Integrity: living honestly and with moral courage

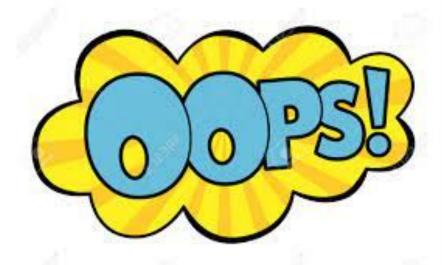












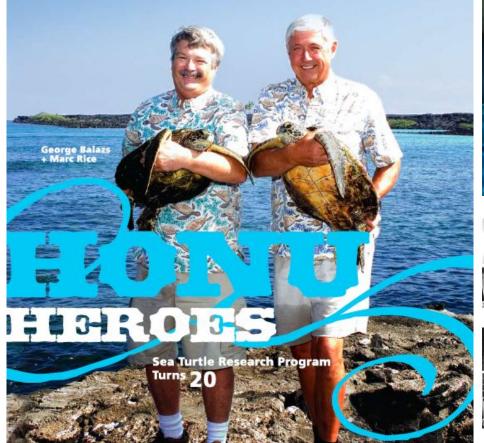
"Back in the 90s your dad once, by accident, deleted the main database. Fortunately I had a daily backup and was able to restore the database. Needless to say, your dad was greatly relieved."

- Steve Bernstein



Sea turtles have been a favorite of HPA students and faculty for decades. Now, however, we tag them to help preserve them.

















TOP LEFT. Kathryn Treacy reviews images taken by the remote video camera at Puako. CENTER: Marc Rice searches the NOAA database for previous capture data. RIGHT: An MK-10 global positioning system and time-depth-recorder.

FAR LEFT: Marc Rice with Kulia Wooddell (left) and Alima Catellacci in Knossos, March 2006. The students were the youngest presenters at the 26th Annual Sea Turtle Symposium in Crete, Greece.

LEFT: L to r: On board the Norwegian Cruise Lines' "Pride of Hawaii" with Linda Balazs and Captain Evans Hoyt. Balazs and Rice released nine satellite-tagged juvenile green turtles from the ship off the coast of Kaua'i on November 4, 2007.







Getting kids out into the field is what this program is all about. While I do enjoy the research, the focus is the students ... involving them, and letting them do the work."

-Marc Rice, co-director, Sea Turtle Research and Conservation Program

A Long-Term Partnership Continues Prosperity for Sea turtles, Students, and Scientists

December 06, 2019

NOAA scientists work with students from Hawai'i Preparatory Academy to conduct research on Hawaiian green sea turtles on Hawai'i Island.

Research | Pacific Islands



The morning air is cool in Waimea at Hawai'i Preparatory Academy (HPA), where we are greeted by sleepy-eyed students. We prepare to head out for the day to conduct sea turtle research. The team is quick to wake up and eager to get started, so we pack our gear in the car and take off down the mountain toward the coast.

The students are participants in the HPA Sea Turtle Research Program, a hands-on research experience program that enables students to conduct scientific research side-by-side with NOAA scientists. While driving to our field site, I get a chance to chat with Marc Rice, the director of the program.

"I've been a part of HPA's sea turtle program for four years. This is my last year so I'm excited to do this project with everyone from NOAA, Mr. Rice and Ms. Jim... and to teach other students how to take blood samples."—Ivanni, a senior at Hawaii Preparatory Academy

And Ivanni has been a huge help to the NOAA researchers involved in the program. "I am impressed by how quickly the students learn, their drive for completing the project, and their flawless execution of difficult research methods!" Dr. Allen tells me. "I now feel superfluous because the three students working on the sex ratio project are incredible and make an amazing team!"

Marc and Laura tell me that many student alumni of the HPA sea turtle program expressed that their experience really helped them to map their personal conservation values, as well as their professional goals. The program brings together experienced scientists and our next generation of researchers through real-world



Ivanni and other students working on the project. They are processing sea turtle blood samples in the laboratory at Hawai'i Preparatory Academy. Photo: NOAA Fisheries/Ali Bayless.

research experience, which encourages the students to think about ways they can solve conservation issues.

Julian Graziadei and I attended HPA two years ago. I also attended your program and it inspired me a lot, that was essentially the reason why I wrote my paper about marine pollution,

We wrote some time ago about your turtle program and my pre scientific paper. My name is

specifically on the Green Sea turtle. Therefore, I am sending you my complete pre scientific paper. I just want to tell you that this program in Hawaii was amazing and it fascinated me. Thank you for inspiring me!!!

Sincerely,

Dear Mr. Rice,

Julian Graziadei

Hello, Mr. Rice.

This is Brian Lee from HPA class of 2014. It's been more than 5 years since I graduated high school and I hope you can still remember me.

First of all, I have graduated from Johns Hopkins as a behavioral biology major this May and recently got accepted to Kyoto University Wildlife Research Center for a 2 years master's program. At college, I became interested in primates and was able to participate in a project on social structures of monkeys. In Japan, I will be studying social behaviors of chimpanzees and bonobos and hopefully expand my interest into other species.

I am sending this email to say a sincere thank you for being a great mentor in my career. Looking back at the times at Hawaii, you have provided me such precious opportunities for the research experience on the turtles and the trip to New Orleans, scuba diving, your marine biology classes, and all the other inspirations that you have given me have shaped my current interest in wildlife. I apologize for realizing this and sending a thank you email very late and again, thank you so much.

I am very excited to continue to learn about animals at Japan, so I wanted to share my updates with you, who helped me to realize what I like the most. I hope you and your family are doing well in this chaotic situation.

I hope this email finds you well.

Sincerely, Brian Lee Hello, Mr. Rice.

This is Brian Lee from HPA class of 2014. It's been more than 5 years since I graduated high school and I hope you can still remember me.

First of all, I have graduated from Johns Hopkins as a behavioral biology major this May and recently got accepted to Kyoto University Wildlife Research Center for a 2 years master's program. At college, I became interested in primates and was able to participate in a project on social structures of monkeys. In Japan, I will be studying social behaviors of chimpanzees and bonobos and hopefully expand my interest into other species.

I am sending this email to say a sincere thank you for being a great mentor in my career. Looking back at the times at Hawaii, you have provided me such precious opportunities for the research experience on the turtles and the trip to New Orleans, scuba diving, your marine biology classes, and all the other inspirations that you have given me have shaped my current interest in wildlife. I apologize for realizing this and sending a thank you email very late and again, thank you so much.

I am very excited to continue to learn about animals at Japan, so I wanted to share my updates with you, who helped me to realize what I like the most. I hope you and your family are doing well in this chaotic situation.

I hope this email finds you well.

Sincerely, Brian Lee



Internationales Symposium über Meeres schildkröten in den USA

Save the sea turtles!

Ökasystems der Meere und somit auch wichtig für uns Monschan. Dashalb müssen Meeresschildköten besse geschützt werden, auch in den Gewässem rund um der nseistant Vanuatu.

Juli 2019 in Kamuello auf Big Island, Howart USA: Wiederse-Die droit präparierten und auf Sendung gehenden Mee-hen der IGS Schlüden Sara Thiet in der Howart Preparation verbewohrenen wurden auf die Namen Teidobo. Use Academy (His) mit Laura Rick off mit und Marie R. Rick Beide und Ethano gefaut, hin Postronen honnte das Born zwi-Lenkiche der IPA letelen Kuse während Sans Ausland-schuldins 2017/18, währ sie von der ISS beutbuch wir im men zuscht aus Neu Iständonsen, während Testab und Mac Ribes Rogornm "Sog Tutte Gesachen" belaste sie Lucybis zum Great Banis Rein vor die ostaustrücker Küste Mater krops registrari. 360 tilmi eksakular balasas at salakulari. Saharimman im Biog der HPA sit dazu sochlich bis veh-Beispielweise (einte sie das Tagging (Kannzeichnes), das mülig zu lesen. "Am 25.04.2018 empfligen wir lediglich ung Feststellung und Pflege deren Bestands derines, sala und informationen über die Position von Emana. Wir sichation

Schlassberattande zu finden sind, hatte ein "Chief" aus nate Union zur Naturerhaltung). dem Kiels der Inselbewohner die Etlaubnis erfellt, an den Schligkröfen zu forschen und ein Boot bereitgestellt, mit dem die Fosscher nach Sonnenuntergang zu verschiede-nen Legestränden fahren konnten.

7 m Famhlanan steint iede Schildröte innerhalb von die bis fünf Jahren nur nachts aus dem Meer an ihren eigenen Geburtsstrand. Dat musste das Team gedüldig suchen und waten. Acht Nächte bescheden Begegnungen mit diel Korettschildröten, die jeweils mit dem kleinen Sender und einer Antenne gusgestaffet wurden. Nur des? Marc Roet in wir hatten noch Chick, denn ein, lahr später henegnete das Nachfolger-Team der HPA nur einer Schlickröfe, "Er zeigt dabei ihre citruelle Position auf seinem Bildschirm.



Justifiers. Dam't libraries hire Sewegungen im Meer und hir schung steht est om Anfang. In Vanuatu war dies die ente Lebensraum erfoscht werden. Warum out Vanuatu? Juhn Eppaditio deser At Death bevon die gevennenen Er-die Meereschildeloten in diesem Benich beseit und stell- kontrolle des HR-Riems von werden Bedaufung für erichteter schützen zu können", sörweit die Eritätung der spierien. "Daau ist es wichtig zu wissen, wohln und wie sich die bedrachten Meeresbewonne bewegen."

Des Stein blied daan feinlerhemen duffel, ist unter onderer Des Stein blied daan feinlerhemen duffel, ist unter onderer die begründen Meersebrevonner bewegen:

Des Eppedfinn gelongte über Vinadaus Haupistodf Porf
Vilo auf der Insei Eletin per Boot auf Mose-kland, eine von
Bissein des Bissein solatis. Hein von unbeüffen heitunden

Bissein des Bissein des Bissein solatis. Hein von unbeüffen heitunden des



Publications:

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

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. Multiyear tracking reveals extensive pelagic phase of juvenile loggerhead sea turtles in the North Pacific. Movement Ecology (4:23).

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'l. Pacific Science vol. 71, no. 2:135-147.

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,

Rice, M.R. (2014). A novel use of An Ancient Hawaiian Fishpond by Honu (Chelonia mydas). Video Presentation in Proceedings of the 34th International Symposium on Sea Turtle Biology and Conservation. New Orleans, LA.

J.M. Keller, G.H. Balazs, F. Nilsen, M. Rice, T.M. Work and B.A. Jensen. (2014). Investigating the potential role of persistent organic pollutants in Hawaiian green seaturtle fibropapillomatosis. Environmental Science and Technology, Accepted for publication June 25, 2014, DOI: 10.1021/es5014054

Schock TB, Keller JM, Rice M, Balazs GH, Bearden DW (2013) Metabotyping of a Protected Non-Model Organism, Green Sea Turtle (Chelonia mydas), using 1H NMR Spectroscopy and Optimized Plasma Methods for Metabolomics. Current Metabolomics 1:279,290

Department of Environmental Protection and Conservation Bioprospecting Permit VAN-ENV-03419

Summary Report on Authorized Activity January 7, 2018 - April 29, 2020







Post Nesting Migrations of Hawksbill Turtles (Eretmochelys imbricata) Nesting at Moso Island, Republic of Vanuatu

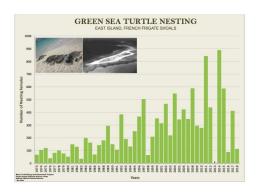
Marc R. Rice1, Laura M.R. Jim1, Francis R. Hickey2

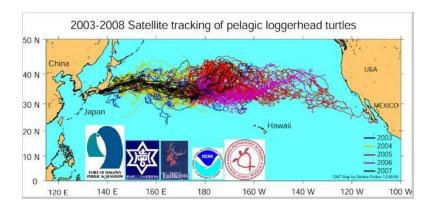
- Sea Turtle Research Program, Hawaii Preparatory Academy, Kamuela, Hawaii
- 2. Traditional Resource Management Program at Vanuatu Cultural Centre, Republic of Vanuatu

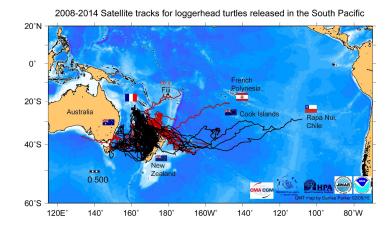
An American Girl

HPA eighth grader Meimei Nakahara was featured in the September/October 2007 issue of American Girl for her work with threatened Hawaiian green turtles, Nakahara has been working with juvenile green turtles at the Mauna Lani Bay Hotel and Resort over the past year as part of the school's Cooperative Sea Turtle Research Program under the direction of Marc Rice, director of HPA's Sea Turtle Research Program, and George Balazs, leader of the Marine Turtle Research Program, NOAA, National Marine Fisheries Service, Pacific Islands Fisheries Science Center.













Mahalo nui loa MARC RICE