

Scott Alan Eckert

Current Position(s)

Kent Smith Professor of Math and Natural Sciences, Principia College
Chairman, Biology and Natural Resources Department,
Director of Science: Wider Caribbean Sea Turtle Conservation Network

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or

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Education

1989-1990 *Physiological Research Lab, Scripps Institution of Oceanography
University of California at San Diego*

Post-Doctoral Research Associate

- Supervisor: Dr. Gerald Kooyman
- Projects: Post-nesting movements and dive behavior of leatherback sea turtles. Heart rates, swim speed and dive behavior of emperor penguins and Weddell seals.

1985-1989 *Department of Zoology, University of Georgia*

Ph.D., Zoology

- Advisor: Robert C. Taylor
- Title of Dissertation: Diving and Foraging Behavior of the Leatherback Sea Turtle, *Dermochelys coriacea*
- Projects: Design of attachment mechanisms for leatherback sea turtles. Internesting dive and foraging behavior of leatherback sea turtles nesting at Sandy Point, St. Croix, U.S. Virgin Islands. Oxygen storage capacity of the deep diving leatherback.

1975-1979 *Principia College, Illinois*

B.S., Biology

- Senior Thesis Supervisor: Walter Crawford, Raptor Rehabilitation and Propagation Project, Tyson Research Center, St. Louis, Missouri
- Senior thesis topics: Pellet Retention in Three Species of Raptor: Red-tailed Hawk (*Buteo jamaicensis*), Barred Owl (*Strix varia*), and Screech

Owl (*Otus asio*). Artificially Induced Breeding Behavior as a Result of Hormonal Injections in Five Species of Incapacitated Raptors.

Career Interests

Endangered Species Research and Management, Marine Turtle Biology, Ecology and Conservation, Reptiles, Biotelemetry, Animal Movement and Migration, Marine Megafauna, Conservation Biology

Teaching Experience

1984-1987 Teaching Assistantship, University of Georgia:
Vertebrate Zoology (1984, 1985, 1986); Physiology (1986, 1987)

2007-2008 Duke University: Marine Megafauna

2004-2010 Duke University (Spring Semester): Biology and Conservation of Sea Turtles

2005-2008 Duke University (Summer Term II): Biology and Conservation of Sea Turtles

2008 The Principia Upper School: (Substitute Teacher) Man and the Environment

2008 The Principia Upper School: (Substitute Teacher) Marine Biology

2009 – cont. Principia College courses taught:

- Advanced Ecology Seminar
- Biology and Conservation of Sea Turtles
- Field and Natural History
- Herpetology
- Introductory Zoology
- Introductory Ecology
- Ornithology
- Wildlife Conservation
- Wildlife Management
- Marine Biology (Peru)
- Natural History of Peru
- Natural History of Ecuador
- Fisheries Biology
- Biology Capstone / Senior Thesis Seminar
- Methods in Research and Writing

Student Advising

PhD Advisor:

Andrew Jesper, (in progress, Co-Advisor with Michael Dreslik), University of Illinois Champaign. "Hibernacula use and thermal biology of the timber rattlesnake, *Crotalus horridus*."

Ayaka Asada (2021), (Co-Advisor with Randall Davis) Texas A&M University "(Leatherback sea turtle interesting dive and movement patterns in tropical waters)"

Wendy Dow Pinniak (2012), Duke University (Co-Advisor with Andrew Read), "(Sea turtles and sound: audition and the effects of marine sound on hearing and behavior)"

Mike James (2005), Dalhousie University (Co-Advisor with Ramson Myers), "At-sea biology and movements of leatherback turtles, *Dermochelys coriacea*, in the Northwest Atlantic"

PhD Committee Member:

Julian Wolcott, University of the West Indies (2014) "Interesting behavior of hawksbill sea turtles (*Eretmochelys imbricata*)"

Suzie Nugent, University of Nevada, Reno, (2012) "Polyandry in the Leatherback Sea Turtle (*Dermochelys coriacea*)"

Rhema Kerr Bjorkland (2011), Duke University

Shaleyla Kelez (2010), Duke University

Kelly Stewart, Duke University, (2009) "Establishment of a leatherback rookery in Florida:"

evidence for nesting range expansion in the Atlantic Ocean”

Master of Science Advisor:

John Nelson (2004), University of San Diego, “Distribution and foraging ecology by whale sharks (*Rincodon typus*) within the Bahia de Los Angeles, Baja California Norte, Mexico”

Michelle Siegle Coghill (2003), University of San Diego, “An examination of optimal egg size (OES) theory in the Olive Ridley sea turtle (*Lepidochelys olivacea*)”

Master of Science Committee:

Thomas Grüniger (1997) University of San Diego, "The predator-prey relationship between the Californian moray eel (*Gymnothorax mordax*) and the two-spotted octopus (*Octopus bimaculoides*)".

Anne-Marie Maraj (2004), University of Central Florida “A comparison of the hatching success of the leatherback turtle (*Dermochelys coriacea*) with the loggerhead and green turtle on central and south Brevard county beach, Florida”

Professional Master’s Degree Program (MEM/CEM Advisor), Duke University:

2004 Graduates: **Christina Hodge**

2005 Graduates: **Cassandra Marichal, Elizabeth Fetherstone**

2006 Graduates: **Erika Robbins, Kim Maison, Jordan Gass**

2007 Graduates: **Andrew DiMatteo, Jennifer LaLiberte**

2008 Graduates: **Danielle Buonantony, Jake Sobin**

2009 Graduates: **Katherine McClellan**

Undergraduate Capstone / Senior Thesis Advisor / Other Thesis Advising

Natasha Telschow: Principia College

Adam Eckert: Principia College

Andrew Jesper: Principia College

Steve Bailey: Principia College

Peter Telschow: Principia College

JT Jones: Principia College

Scott Ross: Principia College

Hilary Frandsen: Principia College

Kelly Adams: : Principia College

Taylor Chichester: Principia College

Mckinzie Wilgus: Principia College

Ken Baughman: Principia College

Lindsey Kasl: Principia College

Lulu Mossman: Principia College

Nick Tosto: Principia College

Jeff Strickland: Principia College

Christina Day: Principia College

Janet Irvine: Principia College

Christian Hagenlocher: Principia College

Rigel Valentine: Principia College

Sandra Ferraroli – Université Louis Pasteur, Strasbourg, France

Lotus Vermeer – Univ. of the West Indies, Barbados.

Research Experience

- 2013 – continuing: **“Home range and habitat use of the timber rattlesnake in the Principia College forest”**
Location: Elsau, IL.
Position: Principal Investigator
Funding: NGGREC, Principia College, Private Donor
- 2015 - 2021: **“Deep water foraging by the leatherback sea turtle (*Dermochelys coriacea*) off St. Croix, USVI”**
Location: St. Croix, USVI
Position: Thesis co-advisor with Randall Davis
Funding: Texas A&M University & WIDECAS
- 2014 - 2017: **“Reducing impact on nesting sea turtles by seismic surveys”**
Location: Aruba, West Indies
Position: Principal Investigator
Funding: Repsol
- 2010 – 2012 **“Setting Boundaries”** Using vessel monitoring systems to develop time area closure regulations to reduce leatherback bycatch in Trinidad artisanal fisheries.
- 2010 - 2012 **“Leading the way”** Teaching fishers turtle safe fishing methods
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: Worldwide Fund for Wildlife
- 2009 **Hatchling production from the world’s largest leatherback sea turtle (*Dermochelys coriacea*) nesting colony**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: Earthwatch
- Interactions between leatherback turtles and fisheries in the Pacific Ocean**
Location: WIDECAS Headquarters, Ballwin, Missouri
Position: Chair, Mexico Section
Funding: Lenfest Ocean Program, PEW Charitable Trusts
- Providing incentives for gillnet fishers to cease killing leatherback turtles**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: CGMK Foundation, WWF, National Marine Fisheries Service (NMFS), National Fish and Wildlife Foundation (NFWF)
- 2008 **Preventing the death of leatherback turtles by in coastal gillnets**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: CGMK Foundation, WWF, NMFS, NFWF
- Preventing harm caused by sound produced by oil and gas exploration and drilling to the endangered hawksbill sea turtle (*Eretmochelys imbricata*)**
Location: Barbados
Position: Co-Principal Investigator (with Wendy Dow)
Funding: SeaWorld Busch Gardens Conservation Fund, WIDECAS
- Eliminating gillnet-caused leatherback sea turtle mortality, Trinidad**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: Disney Wildlife Conservation Fund, WWF, NMFS, NFWF
- 2007 **Sensory biology of sea turtles IV: Hearing and color sensitivity in green and leatherback sea turtles**
Location: University of British Columbia (Canada)

Position: Principal Investigator

Funding: NMFS

Eliminating the mortality of leatherback turtles in gillnet fisheries – new methods, new gear

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: Disney Foundation, WIDECAS, NFWF, NMFS, CGMK Foundation

It's all about depth: reducing net profile to reduce leatherback capture in Trinidad's artisanal mackerel gillnet fishery

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: Disney Foundation, WIDECAS, NFWF, NMFS, CGMK Foundation

2006 **Field tests to evaluate the target catch and bycatch reduction effectiveness of surface and mid-water drift gillnets in Trinidad**

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: WIDECAS, NMFS

Sensory Biology III: diurnal color vision in the leatherback sea turtle

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: NMFS, JIMAR (Honolulu)

2004-2006 **Modeling habitat use of juvenile loggerhead sea turtles in the Alboran Sea using geospatial analysis of satellite telemetry derived data**

Location: Alboran Sea, Spain

Position: Principal Investigator (with Karen Eckert and Ricardo Sagarminaga)

Funding: European Union, Life Grant

2004 **Sensory Biology II, nocturnal visual sensitivity in leatherback sea turtles**

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: NMFS

2003-*ongoing* **Protecting the world's largest nesting colony of leatherback turtles**

Location: Trinidad and Tobago

Position: Principal Investigator (with Dennis Sammy)

Funding: Earthwatch

Sensory Biology I, visual sensitivity in loggerhead and green sea turtles

Location: SeaWorld, San Diego (USA)

Position: Principal Investigator

Funding: NMFS

2000-2006 **Habitat use by leatherback sea turtles in the North Pacific, as determined through satellite telemetry**

Location: Monterey Bay, California (USA)

Position: Principal Investigator

Funding: NMFS, PADI Foundation, Chevron

2002-2004 **Can leatherback sea turtle bycatch in the swordfish longline fishery be reduced by modifying fishing methods?**

Location: California (USA)

Position: Principal Investigator

Funding: Salton-Stahl Kennedy Funds - U.S. Department of Commerce

2002 **Post nesting movements and migrations of the leatherback sea turtle**

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: HSWRI, Salton-Stahl Kennedy Funds - U.S. Department of Commerce

2000-2003 **Habitat use of leatherback sea turtles in the North Atlantic Ocean, as**

determined through satellite telemetry

Location: Archie Carr National Wildlife Refuge & Juno Beach, Florida (USA)

Position: Principal Investigator

Funding: Space Media Institute, Florida Space Research Initiative, NMFS

2000 **Post-nesting migration, movements and behavior of the Pacific leatherback sea turtle, as determined through satellite telemetry**

Location: Llano Grande, Mexico

Position: Principal Investigator

Funding: NMFS

1999-2003 **Aerial census of leatherback sea turtles nesting in Mexico**

Location: Baja Peninsula, Mexico

Position: Principal Investigator

Funding: NMFS

1999 **Post-nesting migration and habitat use by Atlantic leatherback sea turtles**

Location: Trinidad and Tobago

Position: Principal Investigator

Funding: WIDECAST, Hubbs SeaWorld Research Institute (HSWRI)

Post-nesting migration and dive behavior of the leatherback sea turtle

Location: Llano Grande, Oaxaca (Mexico)

Position: Principal Investigator

Funding: NMFS

Whale shark movements, habitats and home range in the Sulu-Sea as determined using satellite telemetry (part 2)

Location: Donsol (The Philippines)

Position: Co-Principal Investigator

Funding: U.S. National Science Foundation

1998 **Whale shark movements, habitats and home range in the Sulu-Sea as determined using satellite telemetry (part 1)**

Location: Sabah (Malaysia) and The Philippines

Position: Co-Principal Investigator

Funding: U. S. National Science Foundation

Auditory response and acoustic sensitivity of leatherback sea turtles to low frequency sound

Location: Trinidad and Tobago

Position: Co-Principal Investigator

Funding: Breakthrough Films and Television

1997 **Post-nesting migration and dive behavior of the leatherback sea turtle**

Location: Mexiquillo, Michoacán (Mexico)

Position: Principal Investigator

Funding: NMFS

Effect of seismic oil survey on the inter-nesting movements and behavior of the leatherback sea turtle

Location: Trinidad, West Indies

Position: Principal Investigator

Funding: BHP Petroleum, Inc.

1996 **Pilot project to determine heart rates, swim speeds dive patterns and hearing capacity of the leatherback sea turtle**

Location: Trinidad, West Indies

Position: Principal Investigator

Funding: Scripps Institute of Oceanography

Using satellite telemetry to monitor movements, foraging behavior and temperature preferences of the Whale Shark (*Rhincodon typus*) in the Sea of Cortez

Location: Bahia de Los Angeles, Baja California (Mexico)

- Position: Co-Principal Investigator
Funding: SeaWorld, HSWRI
- 1995-1996 **Effects of low-flying jet aircraft on metabolic rate, heart rate, hearing sensitivity and behavior of the desert tortoise (*Gopherus agassizi*)**
Location: San Diego
Position: Co-Principal Investigator
Funding: U. S. Air Force
- 1995 **Heart rate and physiologic responses to cold in the East Pacific green turtle**
Location: San Diego, California (USA)
Position: Principal Investigator
Funding: HSWRI
- Dive patterns, swim speed and post nesting movements of the leatherback sea turtles using satellite telemetry**
Location: Trinidad and Tobago
Position: Principal Investigator
Funding: AMOCO
- 1993 **Post-nesting migration and diving by leatherback turtles, using satellite telemetry**
Location: Mexiquillo, Michoacán (Mexico)
Position: Principal Investigator
Funding: NMFS, HSWRI
- Interesting movement patterns, dive behavior and swim speeds of the leatherback sea turtle in a deep water environment**
Location: St. Croix (U.S. Virgin Islands)
Position: Principal Investigator
Funding: Earthwatch, HSWRI, NMFS
- 1992 **Sea turtle nesting beach surveys of Wotje and Erikup Atolls**
Location: Republic of the Marshall Islands
Position: Principal Investigator
Funding: NMFS, the Republic of the Marshall Islands
- 1991 **Swim speeds, heart rates and dive depths of adult leatherback sea turtles**
Location: Mexiquillo, Michoacán (Mexico)
Position: Principal Investigator
Funding: Private
- Inter-nesting movements and behavior of hawksbill sea turtles (*Eretmochelys imbricata*) using sonic and VHF telemetry**
Location: Buck Island, St. Croix (U. S. Virgin Islands)
Position: Principal Investigator
Funding: U. S. National Park Service
- Using satellite technology to document foraging behavior and migration routes of leatherbacks nesting on the Pacific coast of Mexico**
Location: Mexiquillo, Michoacán (Mexico)
Position: Principal Investigator
Funding: Private
- 1990 **Distribution and abundance of sea turtles in Grenada**
Location: Grenada
Position: Principal Investigator
Funding: Foundation for Field Research (Alpine, CA)
- Exercise metabolism in Emperor penguins**
Location: Scripps Institution of Oceanography (La Jolla, CA)
Position: Post-Doc/Associate Investigator
Funding: U. S. National Science Foundation
- 1989 **Diving behavior and physiology of the Emperor penguin**
Location: Cape Washington, Antarctica

Position: Staff Research Associate (Scripps Institution of Oceanography)

Funding: U.S. National Science Foundation (Division of Polar Programs)

Radio-tracking leatherback sea turtles in Malaysian waters to establish boundaries for an offshore Marine Sanctuary

Location: Terengganu (Malaysia)

Position: Principal Investigator

Funding: National Council for Scientific Research and Development (Malaysia), Universiti Pertanian Malaysia, State Government of Terengganu, Greenpeace-USA, World Wildlife Fund-International

1988 **Physiology of diving in Weddell seals and Emperor penguins**

Location: McMurdo Station, Antarctica

Position: Staff Research Associate (Scripps Institution of Oceanography)

Funding: U.S. National Science Foundation (Division of Polar Programs)

Energetics of sediment removal in Caribbean reef-building corals; Neuropharmacology of photoreception in corals; Zooplankton feeding in Caribbean corals

Location: Aquarius Undersea Habitat, St. Croix (U. S. Virgin Islands)

Position: Associate Investigator/Saturating Aquanaut

Funding: NOAA National Undersea Research Program

1987 **Subsistence turtling by indigenous Amerindians**

Location: Waini Point, Northeast Territories, Guyana

Position: Co-Principal Investigator

Funding: Private

1987-1989 **Graduate Student Research Assistantship**

Location: Graduate School, University of Georgia

Funding: University of Georgia

1984-1985 **Diving patterns of free-swimming leatherback turtles**

Location: St. Croix (U. S. Virgin Islands)

Position: Principal Investigator

Funding: Earthwatch/Center for Field Research, Scripps Inst. Oceanography, U.S. Fish and Wildlife Service (USFWS), USVI Division of Fish and Wildlife

1982-1985 **Nesting biology of the leatherback sea turtle**

Location: St. Croix, United States Virgin Islands

Position: Principal Investigator

Funding: Earthwatch/Center for Field Research, USFWS, USVI Div. Fish and Wildlife

1982 **Diel foraging patterns of green sea turtles (*Chelonia mydas*)**

Location: West Indies Laboratory, St. Croix (U. S. Virgin Islands)

Position: Associate Investigator

Funding: The National Geographic Society

1980-1981 **Nesting biology of the loggerhead sea turtle**

Location: Little Cumberland Island, Georgia (USA)

Position: Co-Director, Field Operations

Funding: LCI Home-Owners Association, National Audubon Society

1979 **1) Pellet retention in three species of raptor: red-tailed hawk (*Buteo jamaicensis*), barred owl (*Strix varia*), and screech owl (*Otus asio*) 2) Artificially induced breeding behavior as a result of hormonal injections in 5 species of incapacitated raptor**

Location: Raptor Rehabilitation and Propagation Project, Tyson Research Center (MO)

Position: Project Director

Funding: Principia College, Tyson Research Center

Scientific Advisor/Service (highly abridged)

- 2016- continuing **Editor**, Animal Biotelemetry.
- 2011 – 2015 **Member**, Advisory Board, National Great Rivers Research and Education Center
- 2007-2012 **Member**, Board of Directors, International Sea Turtle Society
- 2004-(*ongoing*) **Member**, Consultative Committee, Inter-American Convention for the Protection and Conservation of Sea Turtles
- 2001-2003 **Member**, Scientific and Statistical Commission (SSC) of the Western Pacific Regional Fishery Council, Honolulu, Hawaii
- 2001-2008 **Team Leader**, Census of Marine Life, Tracking of Pacific Pelagics (TOPP) Sea Turtle Working Group
- 2000 **Member**, Canadian Pacific Leatherback Sea Turtle Recovery Team
- 1997-1998 **Consultant / Expert Witness**, World Trade Organization, Geneva, Switzerland
Case Title: *United States - Import Prohibition of Certain Shrimp and Shrimp Products*
- 1996-2002 **Senior Science Advisor**, Wider Caribbean Sea Turtle Conservation Network
- 1996-2004 **Scientific Advisor**, Asociacion Sudcaliforninana de Proteccion al Medio Ambiente y la Tortuga Marina A.C. (ASUPMATOMA)
- 1995-(*ongoing*) **Science Director**, Nature Seekers, Trinidad and Tobago
- 1992 **Chairman**, NOAA "Blue Ribbon Panel: Kemp's Ridley Head-Starting Experimental Design Reviews"
- 1993-1999 **Chairman**, U.S. Recovery Team for Marine Turtles (Pacific Basin)
- 1990 **Instructor**, NMFS Coastal (Pacific) Fisheries Observer Program
- 1990 **Instructor**, NMFS / IATTC Pacific Tuna Fleet Observer Training Program
- 1992 **Member**, Board of Directors, Annual International Symposium on Sea Turtle Biology and Conservation
- 1989-(*ongoing*) **Member**, Marine Turtle Specialist Group (IUCN Species Survival Commission)
- 1989 **Member**, Steering Committee, 9th Annual International Symposium on Sea Turtle Biology and Conservation
- 1988-1997 **Co-Editor** (with K. L. Eckert), *Marine Turtle Newsletter*
- 1988 **Consultant**, U.S. Recovery Team for Marine Turtles (Atlantic/Caribbean Sea)
- 1988-1990 **Board of Scientific Advisers**, David E. Luginbuhl Research Institute for Endangered Species
- 1990 **Research Consultant**, National Park Service, Virgin Islands National Park/Buck Island National Monument, St. Croix, USVI
- 1986 **Chief Scientist**, Turtle Excluder Device (TED) Testing, Canaveral Harbor, NOAA National Marine Fisheries Service

Academic Assistantships

- 1978 Teaching Assistantship: Department of Biology, Principia College
- 1984-1987 Teaching Assistantship: Department of Zoology, University of Georgia

Awards

- 1984 Department of Commerce's National Marine Fisheries Service Recognition Award for "outstanding efforts in sea turtle conservation"
- 1989 Antarctic Service Medal

Publications

Refereed Manuscripts

- Huss, K. and S.A. Eckert. **2023 (submitted)**. A multi-year analysis of Downy Woodpecker (*Dryobates pubescens*) foraging behavior on Goldenrod Gall Fly larvae (*Eurosta solidagnis*). J. of Ornithology.
- Jesper, A.C., S.A. Eckert, S.R. Ballard, J.A. Crawford and M.J. Dreslik. **2023 (in review)**. Distribution and drivers of critical overwinter refugia for the Timber Rattlesnake (*Crotalus horridus*) in Illinois. Endangered Species Research
- Jesper, A.C., Eckert, S.A. , B.J. Bielema, S.R. Ballard, M.J. Dreslik. **2023 (in press)**. Phenology and predictors of spring emergence for the Timber Rattlesnake (*Crotalus horridus*). PeerJ
- Eckert, S.A. and A.C. Jesper. **2023 (in review)**. Home range, site fidelity, and movements of the Timber Rattlesnake (*Crotalus horridus*) in West-Central Illinois. Animal Biotelemetry.
- Liang, D., H. Bailey, A. Hoover, S.A. Eckert, P. Zarate, J. Alfaro-Shigueto, J.C. Mangel, N. de Paz Campos, J. Quinones Davila, D. Sarmiento Barturen, J.M. Rguez-Baron, C. Fahy, A. Rocafuerte, C. Veelentgurf, M. Abrego and G. Shillinger. **2022**. Integrating telemetry and point observations to inform management and conservation of migratory marine species. Ecosphere 2023:14:e4375. DOI: 10.1002/ecs2.4375
- Asada, A., S.A. Eckert, F.P. Gelwick W.H. Hagey and R.W. Davis. **2022**. Diving behavior and energetic strategy of leatherback sea turtles during internesting intervals on St. Croix, U.S. Virgin Islands. Journal of Experimental Marine Biology and Ecology 550 (2022) 151722.
- Asada, A., S.A. Eckert, W.H. Hagey and R.W. Davis. **2021**. Antipredatory strategies of leatherback sea turtles during internesting intervals on St. Croix, U.S. Virgin Islands. Marine Ecology Progress Series. 678: 153–170.
- Kooyman, G., K. Goetz; C. Williams; P. Ponganis; K. Sato; S. Eckert; M. Horning; R. VanDam; P. Thorson. **2020**. The importance of deep diving at Cray Bank to the emperor penguins from Cape Washington, Antarctica. Polar Biology. <https://doi.org/10.1007/s00300-020-02686-3>
- Guzman, M.H., C.G. Gomez, A. Hearn, S.A. Eckert, **2018**. Longest recorded trans-Pacific migration of a whale shark (*Rhincodon typus*). Marine Biodiversity Records 11(8) <https://doi.org/10.1186/s41200-018-0143-4>.
- Piniak, W.E.D., D.A. Mann, C.A. Harms, T.T. Jones, S.A. Eckert. **2016**. Hearing in the Juvenile Green Sea Turtle (*Chelonia mydas*): A Comparison of Underwater and Aerial Hearing Using Auditory Evoked Potentials. PLoS ONE 11(10): e0159711. Doi:10.1371/journal.pone.0159711
- Van der Wal, S., S.A. Eckert, J.O. Lopez-Plana, W. Hernandez and K.L. Eckert. **2016**. Innovative measures for mitigating potential impacts on sea turtles during seismic surveys. In: Society of Petroleum Engineers, Proceedings of the International Conference and Exhibition on Health, Safety, Security, Environment, and Social Responsibility. Stavanger, Norway. 11-13 April 2016. SPE-179215-MS. 11 pp.
- S. Fossette, M.J. Witt. P. Miller, M.A. Nalovic, D. Albareda, A.P. Almeida, A.C. Broderick, D. Chacon-Chaverri, M.S. Coyne, A. Domingo, S. Eckert, D. Evans, A. Fallabrino, S. Ferraroli, A. Formia, B. Giffoni, G.C. Hays, G. Hughes, L. Kelle. A. Leslie, M. Lopez-Mendilaharsu, P. Luschi, L. Prosdocimi, S. Rodriguez-Heredia, A. Turny, S. Verhage, and B.J. Godley. **2014**. Pan-Atlantic analysis of the overlap of a highly migratory species, the leatherback turtle,

- with pelagic longline fisheries. Proceedings of the Royal Society B. 281:20133065.
- Stewart, K.R., K.J. Martin, C. Johnson, N. Desjardin, S.A. Eckert, L.B. Crowder. **2014**. Increased nesting, good survival and variable site fidelity for leatherback turtles in Florida, USA. *Biological Conservation*. 176:117-125.
- Walcott, J., S. Eckert, H.A. Oxenford, J.A. Horrocks. **2014**. Use of a towed camera system to investigate benthic habitat use by inter-nesting female hawksbill sea turtles. *Endangered Species Research*. 24:159-170.
- Roe, J. H., S. J. Morreale, F. V. Paladino, G. L. Shillinger, S. R. Benson, S. A. Eckert, H. Bailey, P. S. n. Tomillo, S. J. Bograd, T. Eguchi, P. H. Dutton, J. A. Seminoff, B. A. Block, and J. R. Spotila. **2014**. Predicting bycatch hotspots for endangered leatherback turtles on longlines in the Pacific Ocean. *Proceedings of the Royal Society B* 281:20132559.
- Harms, C. A., W. E. D. Piniak, S. A. Eckert, and E. M. Stringer. **2014**. Sedation and anesthesia of hatchling leatherback sea turtles (*Dermochelys coriacea*) for auditory evoked potential measurement in air and in water. *Journal of Zoo and Wildlife Medicine* 45:95–101.
- Schick, R. S., J. J. Roberts, S. A. Eckert, P. N. Halpin, H. Bailey, F. Chai, L. Shi, and J. S. Clark. **2013**. Pelagic movements of Pacific leatherback turtles (*Dermochelys coriacea*) highlight the role of prey and ocean currents. *Movement Ecology* 2013:11.
- Dutton, P. H., S. E. Roden, K. R. Stewart, E. L., M. Tiwari, A. Formia, J. C. Thome', S. R. Livingstone, S. Eckert, D. Chacon-Chaverri, P. Rivalan, and P. Allman. **2013**. Population stock structure of leatherback turtles (*Dermochelys coriacea*) in the Atlantic revealed using mtDNA and microsatellite markers. *Conservation Genetics* DOI: 10.1007/s10592-013-0456-0.
- Walcott, J., S. Eckert, and J. A. Horrocks. **2013**. Diving behaviour of hawksbill turtles during the inter-nesting interval: Strategies to conserve energy. *Journal of Experimental Marine Biology and Ecology* 448:171–178.
- Eckert, K.L., B.P. Wallace, J.G. Frazier, S.A. Eckert, and P.C.H. Pritchard. **2012**. Synopsis of the biological data on the leatherback sea turtle (*Dermochelys coriacea*). U.S. Department of Interior, Fish and Wildlife Service, Biological Technical Publication BTP-R4015-2012, Washington, D.C.
- Bailey, H., S.R. Benson, G.L. Shilinger, S.J. Bograd, P.H. Dutton, S.A. Eckert, S.J. Morreale, F.V. Paladino, T.Eguchi, D.G. Foley, B.A. Block, R.Piedra, C. Hitipeuw, R.F. Tapilatu and J. R. Spotila. **2012**. Identification of distinct movement patterns in Pacific leatherback turtle populations influenced by ocean conditions. *Ecological Applications*, 22(3):735–747
- Dow Piniak, W.E., D.A. Mann, S.E. Eckert, C.A. Harms. **2012**. Amphibious hearing in sea turtles. Pgs 83-87 in A.N. Popper and A. Hawkins (Eds.) *The Effects of Noise on Aquatic Life*, Springer, New York. 695p.
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Grants and Contracts

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Brief Biography

Professor Scott A. Eckert is the Kent Smith Chair of Math and Natural Sciences and Chair of the Department of Biology at Principia College. He also serves as the Director of Science for the Wider Caribbean Sea Turtle Conservation Network (WIDECAST). As Director of Science for WIDECAST, a partner organization to the UN Caribbean Environment Programme, he advises Caribbean governments, University programs, and community-based conservation organizations on the science of sea turtle management. His continuing research focuses on the oceanic behavior and ecology of the leatherback sea turtle from numerous field sites in the U.S. (California, Florida), the Caribbean (e.g. Trinidad), Mexico, Costa Rica, Indonesia and Nova Scotia, as well as whale sharks in the Sea of Cortez and the Philippines. He supports a long-term (30 yrs) community-based conservation and research program at one of the largest nesting colonies of leatherbacks in the world on the Caribbean Island of Trinidad. Due to an abiding and long-standing interest in reptiles and in the recovery of endangered species, Dr. Eckert also conducts research close-to-home with his students in the Principia College forest on the Illinois Endangered timber rattlesnake (*Crotalus horridus*).

Dr. Eckert has been active for more than four decades in the field of pelagic marine vertebrate research and conservation, focusing largely on sea turtles. He is world renowned for his expertise on leatherback turtles, studying the important role these wide-ranging oceanic reptiles play in the marine environment. He pioneered the use of microelectronics on many species in both marine and terrestrial environments and was the first to have successfully used satellite telemetry to study the long-term movements and behaviors of leatherbacks and whale sharks, and was also the first to make the connection between the collapse of major sea turtle nesting aggregations and distant commercial fishing activity. In recent years he has served as Graduate Program Advisor to students in a number of Universities in the USA, Barbados (University of the West Indies), Canada, México and France on a wide variety of ecological and physiological thesis projects.

For his research, Dr. Eckert has received the Department of Commerce NOAA/ National Marine Fisheries Service "Recognition Award" for his "outstanding efforts in sea turtle conservation" (1984), the Antarctic Service Medal (1989), and a Ph.D. in Zoology (1989) from the University of Georgia with a dissertation on *Diving and Foraging Behavior of the Leatherback Sea Turtle (Dermochelys coriacea)*.

Dr. Eckert held a post-doctoral research appointment at the Physiological Research Laboratory of the Scripps Institution of Oceanography at the University of California-San Diego before joining the National Marine Fisheries Service in 1990 as Chairman of the U.S. Pacific Marine Turtle Recovery Team. In 1992 he left NMFS to join Hubbs-Sea World Research Institute as a Senior Research Scientist and from there was invited to relocate his program to Duke University where he resided as a Research Scientist for 5 years. Currently Dr. Eckert is Chair of the Biology and Natural Resources Department at his alma mater, Principia College, while maintaining an active research program with WIDECAST. His research on sea turtles and other large oceanic vertebrates has taken him to field sites throughout the tropical world, as well as two seasons in Antarctica to study the diving behavior and physiology of Weddell seals and Emperor penguins.

Dr. Eckert has published more than 150 scientific and general interest articles and is a valued consultant to governments, non-governmental organizations, and inter-governmental bodies, and has testified before the World Trade Organization and the U. S. Commission on Oceans. He is Chairman of the U.S. Pacific Sea Turtle Recovery Team, and a member of the U.S. Atlantic/ Caribbean Sea Turtle Recovery Team, the Marine Turtle Specialist Group of the IUCN Species Survival Commission, and the Canadian Sea Turtle Recovery Team. He is Chairman Emeritus of the Sea Turtle Working Group of the Census of Marine Life "Tracking of Pacific Pelagics" (TOPP)

program, Editor Emeritus of the acclaimed *Marine Turtle Newsletter*, and a former Board Member of the Western Pacific Fishery Council's Scientific and Statistical Commission (SSC). He also currently serves as an Editor for the scientific journal *Animal Biotelemetry*.