

From the Executive Director

Over the last 60 years, Sea Turtle Conservancy has shown that endangered sea turtles can be recovered—through sustained research and conservation that includes habitat protection, elimination of human-caused threats, and creative education programs that build public support for saving these amazing animals. As evidence of this success, both loggerhead and green turtle numbers in Florida are increasing. Similar results are being seen at STC's project sites in Panama, where both hawksbills and leatherbacks are setting record nesting levels.

I wish all the news for sea turtles was good, but the reality is turtles are struggling in a few locations where STC works. This is particularly true in Bermuda, where we've seen a major die-off of seagrass that is having a calamitous impact on the island's juvenile green turtle population. And in Panama, despite a major growth in nesting by leatherbacks at Soropta Beach, during the last two years we've seen a shocking increase in the rate of illegal egg harvesting.

Started over 50 years ago, the Bermuda Turtle Project (BTP) is one of our longest-running programs. For millennia, sea turtles and seagrasses thrived together in a balanced ecosystem in Bermuda, but as so often is the case, that balance has been destroyed by human disturbances, including nutrient runoff, boat traffic and climate change. In 2021 STC researchers documented a dramatic decline in seagrass throughout the island. As a result, sea turtles are vanishing from many long-term study sites, and those that remained show health declines. It is critical that we learn why seagrass is disappearing in Bermuda, and support conservation actions to restore this habitat.

The Bocas del Toro region of Panama hosts globally important levels of nesting by hawksbill and leatherback turtles. Since the early 2000s, STC has studied these nesting populations and conducted community-based education and conservation to protect nests and curtail illegal hunting. This summer STC documented a dramatic increase in leatherback nesting at Soropta Beach, which is very encouraging and provides evidence that STC's sustained efforts are producing measurable results. Unfortunately, while we celebrate this jump in nesting, we are alarmed about a significant increase in illegal egg harvesting. In 2022, STC will implement a new approach to curtail poaching at Soropta, including the operation of hatchery where we can relocate and protect as many nests as possible. STC uses hatcheries only as a last resort; unfortunately, we have reached that point at Soropta.

This combination of good and bad news for sea turtles is a constant reminder that STC cannot rest on its past

Staff

successes. While it is important to acknowledge and celebrate whenever our research finds that sea turtles are responding well to conservation efforts, we must also remain vigilant in identifying and responding to each new threat. To do this, we depend on the support of people, businesses and foundations that care as much as we do about sea turtles and the marine environment. Thank you for your support!



Dain Godfor

David Godfrey
Executive Director

U.S. Staff

David Godfrey - Executive Director

Dr. Roldan Valverde - Scientific Director

Pat McCloskey - Controlle:

Dr. Dan Evans - Senior Research Biologist & Grants Manager

Kim Aslan - Office Manager

Lexie Beach - Communications Coordinator

Evan Cooper - Membership Coordinator

Stacey Gallagher - Development Coordinator / Lighting Project

Kick Herren - Biologist & Project Managei

E '1 A I' 14' B ' 46 ' 1'

Emily Asp- Lighting Project Specialist

Casie Hain- Lighting Project Specialist

Sarah Rhodes-Ondi - Community Stewardship Coordinator

Erin Darling - Senior Accountant

Costa Rica Staff

Roxana Silman - Costa Rica Director Maria Laura Castro - San José Office Assistant Ivan Ramos- Tortuguero Station Manager Jaime Restrepo - Research Coordinator Laia Nadal Agullo- Education & Outreach Coordinat

Hazel Rankin- Visitor Center Coordinator

Panama Staff

Cristina Ordoñez - Panama Research Coordinator Raul Garcia Varela - Panama Assistant Coordinator Felipe J Baker - Panama Indigenous Community Liason Xavier Ow Young - Panama Education & Outreach Coordinator

Programmatic Achievements

Tortuguero and Panama Research and Conservation Programs

Because travel restrictions due to COVID-19 were lifted in 2021, STC resumed normal operations and achieved its

research, conservation and education goals in Tortuguero. In-person educational outreach resumed, resulting in hundreds of community members and visitors learning about how they can protect Tortuguero's sea turtles. STC participated in direct conservation by rescuing adult green turtles from illegal hunting and re-burying hawksbill eggs that were recovered by law enforcement.

STC's RAs monitored all sea turtle species nesting at Tortuguero to determine population trends, reproductive success and survival threats. Green turtle nesting results (June- December): During the 2021 green turtle season, 44,275 green turtle nests were laid on Tortuguero Beach. The average hatching and emergence success for nests was 78.3% and



73.4%, respectively, which is quite good for this species. Leatherback nesting results (early 2022): During the 2022 leatherback nesting season, 156 leatherback nests were laid on Tortuguero Beach. The average hatching success was 48.1% and the average emergence success was 43.21%, which were both slightly higher compared to last year.

Through our research and conservation programs in Bocas del Toro, Panama, STC monitored and protected both leatherback and hawksbill turtle nests at several project beaches, including Chiriquí Beach, where over 3,600 leatherback nests and more than 1,500 hawksbill nests were recorded. Based on data collected by STC since 2003, an assortment of half a dozen beaches near Bocas del Toro hosts the fourth largest nesting colony of leatherback turtles in the world and one of the largest colonies of hawksbills remaining in the Caribbean. STC's work in the area is protecting turtles, raising public awareness, fostering community involvement in conservation and promoting ecotourism as a substitute to sea turtle consumption.

Sea Turtle Lighting Update

In 2021, STC completed several lighting evaluation trips to Southwest Florida and Fort Lauderdale Beach, the area in Florida with the highest rate of sea turtle disorientation, as part of two long-term grants from the National Fish and Wildlife Foundation. In total, STC completed the lighting retrofit at 19 beachfront properties in Florida in 2021. STC also educated 220 code enforcement personnel from 14 different Florida counties on how to identify lighting violations and recommend the best turtle-friendly solutions to correct the problem. As a global leader in light pollution mitigation for sea turtles, STC uses creative educational strategies and turtle friendly lighting technology to reduce sea turtle disorientations.

Board of Directors

Archie F. Carr III, Ph. D -Chairman

Sing Chan

Rick Cleveland

Michael Feld

Alison Frey

Elise Frick

Chris Rajczi

Jeffrey S. Phipps

Tour de Turtles Education Program

STC's most popular education program is the annual Tour de Turtles (TDT), an online education event that tracks the migrations of a dozen or more turtles being monitored by satellite. In 2021, the fourteenth year of the program, we released the following turtles with satellite transmitters: five leatherbacks from Soropta Beach, Panama; four leatherbacks from Jupiter Island, Florida; two green turtles and one hawksbill from Tortuguero, Costa Rica; four loggerheads from the Archie Carr National Wildlife Refuge in Melbourne Beach, Florida; two hawksbills from Nevis, West Indies; and two rehabilitated juvenile green turtles in partnership with The Turtle Hospital in the Florida Keys. Due to COVID-19 restrictions, we weren't able to hold our normal large public releases. However, the Tour de Turtles website was more popular than ever as 22,800 people logged on in just three months.

Advocacy in Florida

Florida's globally-important sea turtle populations face a myriad of anthropogenic threats, with coastal armoring and artificial lighting being the most urgent. During the 2021 Florida Legislative Session, STC advocated against two bills that would have greatly expanded both of these threats. One of the bills, which failed to pass through its first committee, sought to deregulate coastal armoring and would have created an explosion of sea wall construction along important sea turtle nesting habitat in Florida. Another bill would have undermined local sea turtle protection ordinances that prohibit unshielded white lights during sea turtle nesting season. STC worked with the Florida Fish and Wildlife Conservation Commission (FWC) to craft amendment language, which was later approved, that exempted sea turtle protection ordinances from the restrictions in the bill. STC will continue to be a strong voice for Florida's threatened and endangered sea turtles and their habitats to ensure that they survive well into the future.

Bermuda Turtle Program Update

This summer, STC staff biologists Dr. Dan Evans and Rick Herren joined our long-term partners in Bermuda to successfully carry out critical field research as part of the Bermuda Turtle Project (BTP). Studying sea turtles in their marine environment is vital to finding out how well they are doing at various life stages. Over the last five decades, the BTP has developed into a multifaceted study of sea turtles in their developmental habitat – a place

where young sea turtles from around the Atlantic and Caribbean come to grow up. While we had to postpone our Bermuda field research in 2020 due to the pandemic, the project forged ahead in 2021 under the scientific leadership of STC's staff. The most notable takeaway from this year's research in Bermuda is that major ecological changes underway on the island have resulted in a massive die-off of seagrasses—the main food source for juvenile green turtles. More research is needed to fully understand the complicated factors at work, but it almost certainly involves water quality degradation associated with excess nutrient and pollutant runoff from the island, combined with disturbance by human activities. Some people in Bermuda have been quick to suggest overgrazing by sea turtles as the cause, but it seems unlikely an animal that has thrived around Bermuda for thousands, or possibly millions, of years—in greater numbers than seen to-



day—would be the cause of this collapse. To better understand the changes underway in Bermuda, the BTP was expanded this summer to include vessel-based transect surveys to estimate the current size of the green turtle population. We also initiated a new sea turtle health assessment that involved analyzing blood samples from captured animals to compare with healthy populations in Florida.

Numbers at a glance

Financials

Membership

- Total Members 5,878
- New Members 3,911
- **Renewals 492**
- Monthly Givers 249

Tortuguero Research Station

- Visitor Center Visitors 4,525
- Visitor Center Gift Shop Sales -\$10,964
- Research Assistants Trained 25
- Environmental Education Assistants - 4
- Eco-Volunteers 28

Soropta, Panama Station

• Eco-Volunteers - 1

Barrier Island Center

- Turtle Walk Participants 465
- Volunteer Hours 1022
- Gift Shop Sales \$25,209

Website

- Page Views 3,527,178
- Visits 1,641,746
- Unique Users 1,032,116

E-Communications

- E-mail Subscribers 24,000
- Facebook Fans 540,000
- Twitter Followers 30,000
- Instagram Followers 67,000

Tour de Turtles Program

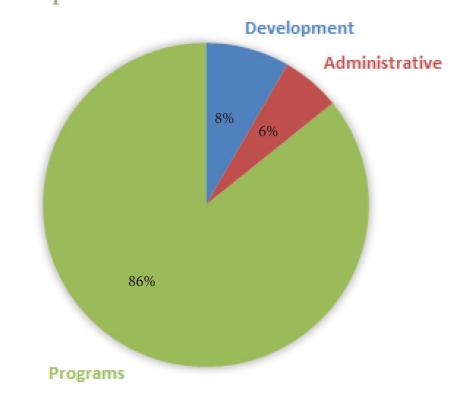
- Turtles Tracked 20
- Release Countries 4
- Website Visitors 22,800

Sea Turtle Grants Program

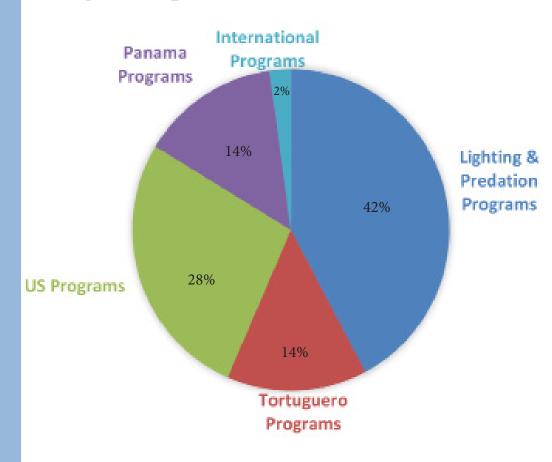
- Total Awarded \$423,464
- Education Grants 6
- Research Grants 10
- Conservation Grants 10

Cover Photo by Barbara Selles

Total Expenses



Program Expenses Breakdown



Foundation & Corporate Support

1888 Mills

Adventure Aquarium

Altruette AmazonSmile

American Endowment Foundation

Atlantis Blue Project Bates Foundation Beauty 21 Cosmetics Benevity Fund

Bessemer National Gift Fund Blackbaud Giving Fund Blue Sphere Foundation

Bruce and Phipps Menk Family FDN

Certina

Charities Aid Foundation Clough Family Fund

Coastal Conservation Creations

Coastal Wildlife Club

Community First Foundation Community Foundation for Brevard Community Foundation of North Central FL

Country Life Outfitters

Curtis & Edith Munson Foundation

Cybergrants Disney

Disney Conservation Fund

DivinityLA

Edward Jones Trust Co

Elinor Patterson Baker Trust Fund

Felburn Foundation Fidelity Charitable Gifts Firedoll Foundation FLOAT Apparel Florida Aquarium Focused on Nature For the Environment, Inc. Friends for a Better Way

Frontstream Gili Sports

GIMME Health Foods Give Lively Foundation

GoodCoin Graft Cider

H.C. Frick Foundation Hardner Foundation

HONU INDO Board

J.W. Couch Foundation

Julie VOS
Kanula Clothing
Kendra Scott
L3HARRIS
Lilly Pulitzer
Marisla Foundation
Marriott International
Mennen Foundation
Mey Share Foundation
Mighty Cause

Mighty Cause Minera Panama Mitchell Foundation Munson Foundation National Christian

New Hampshire Charitable Foundation National Fish and Wildlife Foundation

NG Developments Network for Good NOGU Bracelets Oceans Lending ODOS Eyewear Path Solutions Paypal Giving Fund Pledgeling Foundation Pura Vida Bracelets Quail Valley Charities, Inc. Ress Family Foundation Roberta A Pierce Family Trust Rusczyk Family Foundation Schwab Charitable Fund

SEE Turtles

Seedlings Foundation Shark Reef at Mandalay Bay Shop for Your Cause Target Corporation

Tarte Cosmetics Tee Mill Tech

TD Ameritrade Clearing The Columbus Foundation The Good Day Foundation

The Munson – Simu Family Gift Fund

The Scoob Trust Foundation

The Cynthia & George Mitchell Foundation

Theophilius Foundation Turtle & Hughes United Way

Vanguard Charitable Foundation Vanderpool Conservation fund

Wild Tribute

Wildlife Collections (Fahlo)

World Nomads Your Cause, LLC

Youth Development Foundation

Zev Trust Bequest

Archie Carr Fellow (\$5,000 & above)

Linda Randgaard Antonioli Lavinia Clay Richard Clay Thomas Clay Mike & Marie Collins Darren Dickenson Kenneth Ferguson, Jr Rick Fletcher Laura J Forte Mr. Henry C Frick, III Erin Lavik James Lenhard Sandra Moss Jeffrey S Phipps Tom & Sharon Scanlan Ms. Pearl Seidman Mary Jane Seipler Nancy Taylor Dr. Joan Woolard

Kemp's Ridley Level (\$1000 - \$4,999)

John Alic William Allan Joseph Amisano Gregory & Janet Bastian Kenneth Bedell Dr. Gabrielle Bolton Jason Bonato Cecil Burgin John Byrd Landon H. Clay Mr. and Mrs. Jim Cronin

Aileen Cudia
Rachel DeCavage
Shawn Dennis
Tami Doll
C.H. Drollinger
Elizabeth Duckworth
Lisa Dunlap
Thomas Engle

Jared Flinn
Alison Frey
Elise Frick
Curt Fuhrmann
Brian Graham
Chloe Greenstein
Kenneth A Hale
Karen & Richard Hall
Cecilie Hansen
Charles Harding
Dale Henderson
Jessica Hodgins
Dana Hurwitz
Joan Kelsch

Jeanie & Murray Kilgour Dr. Anthony Knerr Jeffrey Kromrey John Lansing The Lieberman Family

Magal Pamela Manice Jane W. Miller Ms. Paula Miller Tama Olver Litzi Oster Louise Pfister Susan Place Kendra Porta Ms. Penny Purtzer Mr. & Mrs. Chris Rajczi Jerry Randgaard Tom Randgaard Diane Randgaard Richard Ratliff Peter & Margaret Reed

Virginia B. Rogers

Janis Scaramucci

Helen Stamatacos & Charles

Susan Schonberg Virginia Schwerin Maureen Setter Deborah Shores Nicholas A. Shufro Greg & Susan Sickal Anthony Skinner Mary Stahley Molly Sullivan Gordon & Diana Tracz Sebastian & Gretel Troeng Nancy Tuma Jordan Urstadt Norman Varney Kennard Watson Ian Westley Roberta Wiener Louise M. Wilker