

FIELD PROGRAMS AT-A-GLANCE

LOCAL PARTICIPANTS

VISITING PARTICIPANTS

15.346 TOTAL FIELD DAYS

PROGRAM IMPACTS

Sea Turtle Nest Protection in Costa Rica



EPI's Pacuare Reserve is documented as having the highest density of nesting leatherback sea turtles in Costa Rica. Prior to protection, more than 90% of sea turtle eggs were lost to illegal harvest and other threats. With EPI, participants engage in nightly turtle

censuses, help collect biometric data, and relocate nests if necessary. For the third consecutive year, illegal harvest of sea turtle eggs at Pacuare Reserve was kept to less than 2%, providing critical protection for this endangered species.

Protecting Endangered Marine Mammals



Payne's Creek National Park (PCNP) is one of Belize's most significant marine protected areas, and EPI students observe, classify, and record manatee sightings and sea grass abundance to help determine baseline populations for the species, and help identify

potential wake-free boat zones where human/manatee conflicts most likely occur.

Studying the Seeds of Island Change



The giant Galapagos tortoise plays a unique role in the ecosystem of the islands - that of seed disperser. To better understand the role tortoises play in distributing seeds of both native and invasive plant species as they move about the island, students assisted Dr. Stephen Blake in

collecting tortoise dung and identifying the types of seeds found in samples. This field season, EPI participants identified and cataloged a total of 9,109 seeds.

IMPHCIS EPI GLOBAL FIELD PROGRAM

In 2019, EPI's field-based programs engaged 1,600 students and educators in authentic research. Together, we studied vulnerable species, eradicated invasive plants, engaged our communities, and made a difference in the world. We crossed cultural and geographical boundaries and empowered one another to protect the land, animals, and resources we all love.

Protecting a Yellowstone Icon



EPI Yellowstone participants contributed to two Yellowstone Bison Management Team studies designed to evaluate how bison affect the health of the ecosystem's grasslands and their relationships with other ungulates-elk, pronghorn, bighorn sheep, and mule deer.

The "Home on the Range" study seeks to understand how these species share the landscape as they search for food, water, and protection from predators. EPI participants contribute by tracking animals using radio telemetry, classifying ungulate herds, collecting fecal samples, and recording habitat information.

Developing Marine Research Techniques



Local and visiting EPI Mexico students worked on a study of benthic marine invertebrates in the Gulf of California with Dr. Adrián Munguía. The Gulf has over 5,000 species of invertebrates, and Dr. Munguía is working on developing an eDNA technique that would

allow a quick water sample to reveal which species are present. EPI students are verifying the accuracy of the eDNA technique by snorkeling to visually identify the marine invertebrates in an area, to be compared to eDNA results of a water sample from the same area. eDNA promises an incredibly efficient environmental monitoring technique, and EPI students are playing a key role in its development.

PROGRAM OUTCOMES

SEA TURTLE HATCHLINGS RELEASED IN COSTA RICA

YELLOW-HEADED PARROTS COUNTED IN BELIZE

12.682

M² OF INVASIVE PLANTS REMOVED IN GALAPAGOS

BENTHIC MARINE SPECIES REGISTERED IN BAJA

HOURS OF UNGULATE RESEARCH IN YELLOWSTONE

IN 2019, EPI EVALUATIONS SHOWED THAT STUDENTS' KNOWLEDGE OF ENVIRONMENTAL ACTION **STRATEGIES INCREASED BY**

ALUMNI & OUTREACH

EPI provides unique opportunities for alumni and other members of the community to participate in local conservation efforts. Alumni take action and develop as conservation leaders as part of eco clubs, community workshops, internships, and other student-driven projects. These youth facilitate and lead community-based projects like citizen science programs, beach clean-ups, awareness campaigns, festivals, field trips, collaborations with local and international scientists, and more.

ALUMNI ACTIVITIES AT-A-GLANCE

448 TOTAL COMMUNITY WORKSHOPS & EVENTS

10.073 | alumni participating in community events



BITTERROOT WILDLIFE INTERNS PARTNER WITH LOCAL SCIENTISTS FOR DEEP DIVES INTO RESEARCH THAT INVESTIGATE BATS TO BUTTERFLIES

NOTABLE ALUMNI ACTIVITIES

Costa Rica Community Event for Conservation



For the sixth consecutive year, EPI Costa Rica hosted "Manos Unidas por el Maria Aguilar," a river basin clean-up effort at one of the most heavily polluted rivers in San Jose. EPI Costa Rica partnered with other NGOs, businesses, and local government agencies to organize this open event for the community. One

hundred and forty-eight community members lent a hand at four different locations along the river. More than 15 tons of garbage were collected!

Building Community Leaders in Mexico

Members of EPI Mexico's Californios Verdes Eco Club were invited to support biodiversity education for the Secretary of Tourism, Economy, and Sustainability of Baja California Sur's inaugural event, "Environmental Week: First Environmental Rally." Students worked closely with 40 key community members to create awareness of and appreciation for the richness of the local environment.

Galapagos' Mola Mola Club

For the second year, EPI alumni are collaborating with Litter Scientists, a group of researchers from Chile who lead a citizen science program educating and empowering Latin American youth to take action on litter problems. EPI alumni have participated in two phases of this program and are inspired to provide solutions to the public to reduce singleuse plastic products. EPI alumna Elvia Lopez won the "Plastic-free July" award from Keiko Conservation Ecuador.

"EPI'S Mola Mola Eco Club has given me three things: extraordinary experiences, personal growth, and lifelona friends."

- Micaela, Local Galapagos Participant

LOOKING AHEAD

We look forward to building on the momentum created and keeping participants engaged through additional workshops, mentoring, and local community eco-club creations. We will continue to strengthen our partnerships with local NGOs and researchers to expand opportunities for alumni to stay engaged in conservation and become leaders in their communities.

Alianza Deplastifícate

MAJOR FUNDERS

Edward L Anderson Jr. Foundation Paul M. Angell Family Foundation The Builders Initiative Helmsley Charitable Trust Walton Family Foundation Houston Zoo Fundación Carlos Slim **Gurinas Trust Anonymous** Alumbra Innovations Foundation M.J. Murdock Charitable Trust Michael & Rocio Haas Catena Foundation International Galapagos Tour

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Christy & Donaldson Miele

PROGRAM PARTNERS

Toledo Institute for Development and **Environment** Belize Audubon Society Shipstern Nature Reserve William & Mattie Wattis Harris Friends for Conservation and Development Southern Environmental Alliance Wildlife Conservation Society Ya'axche Conservation Trust

Costa Rica

Veragua Rainforest Tirimbina Rainforest Coastal Jaguar Conservation Casa de Cultura

Latin American Sea Turtles (LAST) Estación Las Tortugas Panthera Costa Rica

Galapagos

Dirección del Parque Nacional Galápagos Dirección Distrital de Educación Conseio de Gobierno de Galápagos Galapagos Conservation Trust Galapagos Tortoise Movement Ecology Program Houston 700 Charles Darwin Foundation Litter Scientists Intercultural Outreach Initiative

CERCA A.C. CONAND Enseña por México FANLAP A.C. Grupo Tortuguero de las Californias A.C. PANGAS Prescott College A.C. Ponguinguiola A.C. ProJuventudes San Diego Natural History Museum SerVers MX Sociedad de Historia Natural Niparajá

Tiburón Ballena México

Yellowstone

B Bar Ranch MPG Ranch Custer-Gallatin National Forest (Gardiner Ranger District) National Parks Conservation Association Yellowstone Bear Management Team Yellowstone Bison Management Team Red de Turismo Sustentable A.C. Yellowstone Botany Team Yellowstone Wolf Project

