

FIELD WORK 23,409 AT-A-GLANCE

HATCHLINGS RELEASED IN COSTA RICA & MEXICO **RESEARCH ASSISTANTS &** 28 **INTERNS** 375 LOCAL STUDENTS

EPI'S PACUARE RESERVE

Sea Turtle Nest Protection in Costa Rica During COVID EPI's Pacuare Reserve has 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. Today, it is less than 4%. When the pandemic forced Costa Rica to shut its borders, local and international



research assistants chose to stay and isolate at Pacuare Reserve—continuing to provide protection for nesting sea turtles, eggs, and hatchlings. These dedicated research assistants often worked more than 80 hours per week, walked up to eight miles each night, and saved more than 54,601 sea turtle eggs!

EPI GALAPAGOS

Restoring Habitat in the Galapagos

Invasive species are the number one threat to the unique

ecosystems of the Galapagos Islands, with more than 800 invasive plant species now identified. EPI Galapagos students worked with Galapagos National Park to restore key habitat for endemic species by removing more than 2,300 invasive plants like cascarilla, blackerry, and guava. Through this hands-on conservation service, students restored migration corridors and protected native food sources for the



endangered giant tortoise—and became empowered to take an active role in Galapagos conservation efforts.

2020 HIGHLIGHTS IMPACTS EPI GLOBAL FIELD PROGRAMS

The effects of the pandemic on Ecology Project International in 2020 were profound. We faced border, beach, and school closings internationally, and had to temporarily shutter our Belize field site. Yet despite the pandemic, we maintained critical protection for nesting leatherback sea turtles in Costa Rica, safely provided high school credit recovery courses for Indigenous youth in Montana, and developed new urban ecology and water resource programs in Mexico.

During this crisis, EPI's staff and board nucleated, adapted, and kept moving-focused on our mission to inspire youth with nature and empower them with science, fostering tomorrow's leaders.

EPI YELLOWSTONE Helping Indigenous Youth Graduate



For the 10th year, EPI Yellowstone partnered with the Wolf Point School District on the Fort Peck Reservation to provide field science courses for high school students needing additional credits to graduate.

In July, with heavily adapted programming to ensure student safety, six students from the Reservation attended our five-day immersive program in Yellowstone National Park. Youth spent a day with the park's bison team, learning about wildlife management issues, and the links between the park's bison and



their own tribal herds, and helping them recover the credits needed to graduate high school.

EPI MEXICO Protecting Coral Reefs in Baja

For four years, EPI Mexico students have conducted snorkel surveys in the Gulf of California to monitor the diversity of endangered and economically important invertebrates. This year, students also surveyed for outbreaks of the crown-of-thorns sea star, Acanthaster planci, which preys upon coral, near the



protected island of Espíritu Santo. In Australia's Great Barrier Reef, these sea stars were responsible for a 25% loss of coral cover between 1985-2012, and their presence in Baja is of concern. EPI Mexico students' data will help inform scientists of the threats from these giant corallivores, as well as identifying possible target areas for removal efforts.

AVERAGE GROWTH IN ENVIRONMENTAL LITERACY

ALUMNI & OUTREACH

The COVID-19 pandemic also deeply impacted our alumni and outreach programs. Last summer, we were forced to cancel dozens of alumni enrichment activities and community events globally. However, there were highlights-EPI Yellowstone and MPG Ranch safely provided the Bitterroot Wildlife Internships, giving local EPI alumni mentored, extended independent research opportunities. EPI Mexico alumni were trained as leaders in and hosted endangered green sea turtle conservation workshops. And EPI Galapagos and EPI Mexico's alumni continued connecting through virtual eco club meetings, strategizing their next conservation campaigns-some of which are now underway.

OUTREACH AT-A-GLANCE

ALUMNI & COMMUNITY PARTICIPANTS

ALUMNI & OUTREACH EVENTS

NOTABLE ALUMNI ACTIVITIES **EPI** Mexico



Water Workshop Internships Baja California Sur is the driest state in Mexico, with less than ten inches of rain per year. In La Paz, water shortages exist due to a rapidly increasing population and aquifer overexploitation. Deforestation in the Sierra Mountains has also reduced

the aquifer's ability to recharge. Through EPI Mexico's internship program, seven alumni studying Water Science at Universidad Autónoma de Baja California Sur were trained in EPI's educational



EPI MEXICO ALUMNI LED FOUR GREEN SEA TURTLE CONSERVATION WORKSHOPS WITH GRUPO TORTUGUERO

model. These alumni helped facilitate ten water workshops with high schools and public education events in La Paz, reaching more than 1,100 youth and community members.

EPI Galapagos

Investigating Beach Pollution

For the 3rd year, EPI Galapagos alumni worked with Litter Scientists, a group of researchers from Chile studying pollution in Latin America. Twenty alumni participated in research studies at Tortuga Bay and Los Millonarios Beach, helping to determine that the source of the litter on the beaches was local, rather than brought in by the ocean. This finding indicates that the solution to the pollution will require local action—exactly the kind of community outreach and leadership at which EPI Galapagos alumni excel.

COVID-19

Like so many in the global community, EPI faced uncharted waters upon the outbreak of COVID-19. Due to the virus, EPI was forced to cancel most of our more than 120 planned field science courses for 2020. We reduced staff by 60% and expenses by 66%, but retained core staff who adapted all aspects of programming for the safety of our students and communities. Our Board of Directors and Executive and Development teams continue to harness our 20 years of education experience and strategically pivot within our vision of a diverse movement building communities that cherish and restore the ecosystems that sustain them. We are incredibly grateful to our funders, most of whom have allowed funding to be unrestricted so that EPI could forge a path through and beyond the pandemic.

MAJOR FUNDERS

Edward L. Anderson Jr. Foundation Paul M. Angell Family Foundation The Builders Initiative Alumbra Innovations Foundation International Community Foundation Anonymous Houston Zoo, Inc. International Galapagos Tour Operators Association Gurinas Trust Dana Lurie & Dalila Vargas Education for Sustainability: Cross Charitable Invasive Species - FEIG Fund at the Chicago Community Foundation

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Leona M. and Harry B.

PROGRAM PARTNERS

Belize

Toledo Institute for Development and Environment Shipstern Nature Reserve Friends for Conservation and Development Southern Environmental Alliance Wildlife Conservation Society Ya'axche Conservation Trust Houston Zoo

Costa Rica

Veragua Rainforest Tirimbina Rainforest Coastal Jaquar Conservation

Latin American Sea Turtles 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 **Charles Darwin Foundation** Litter Scientists Intercultural Outreach Initiative Casa de Cultura

Mexico Alianza Deplastifícate Center for Cultural and Ecological Studies. Prescott College, A.C. CERCA, A.C. CONANP Ecosistemas y Conservación, A.C. Enseña por México Grupo Tortuguero de las Californias, A.C. Perlas de Cortez Ponguinguiola A.C. Red de Turismo Sustentable San Diego Natural History Museum Sociedad de Historia Natural Niparaiá Universidad Autónoma de Baja California Sur -

Ciencias del Agua Urbaneria

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 Yellowstone Botany Team Yellowstone Wolf Project

