

**CHARLES DARWIN FOUNDATION 2011
Annual Report**

**This Annual Report was produced by the
CDF Outreach Program**

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Sven Lorenz

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Darwins Arch. Photo: J.R. Green
Pollen of native and endemic Galápagos species. Photo: P. Jaramillo.
Galápagos Hawk (*Buteo galapaguensis*). Photo: J. Heilmann

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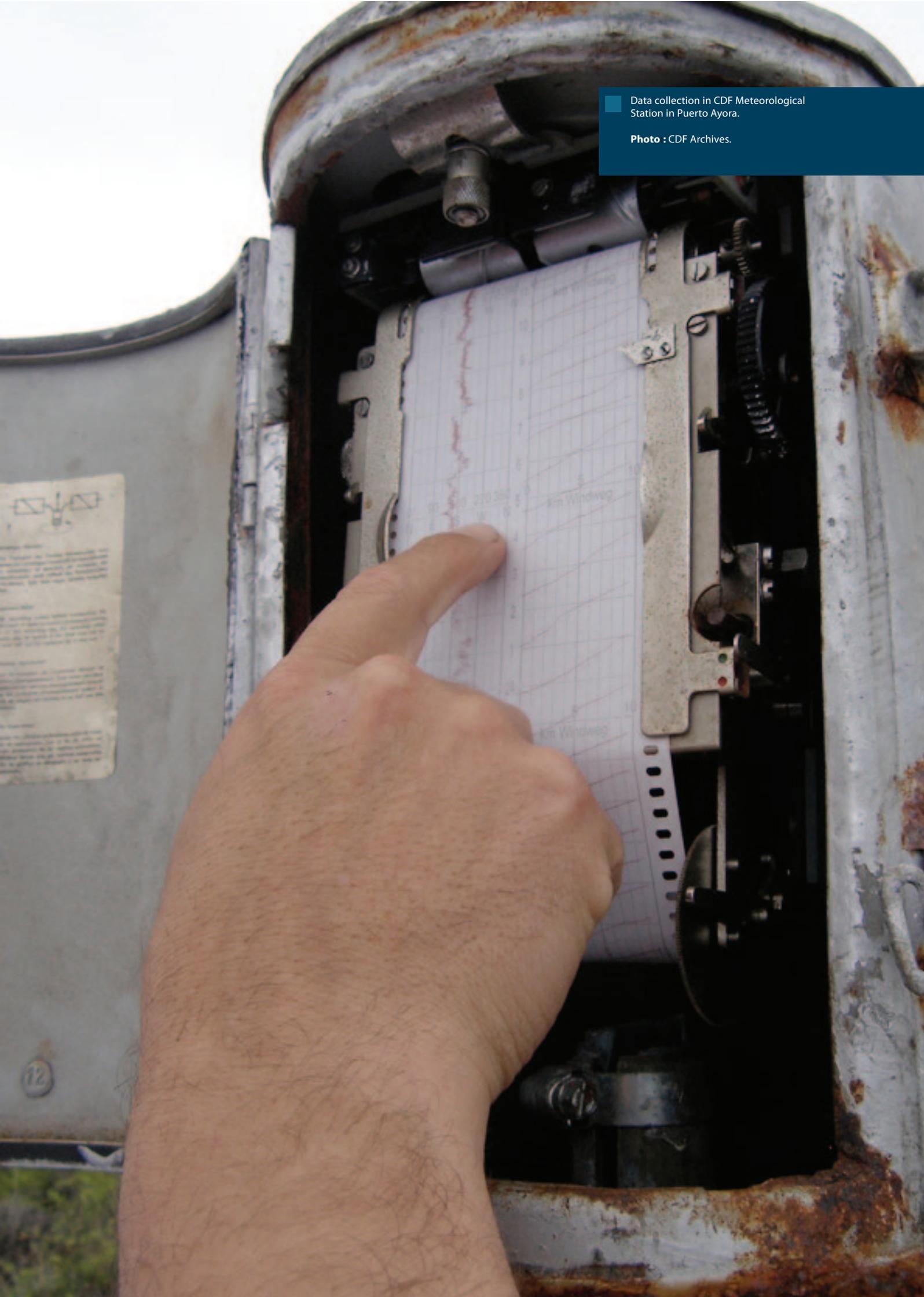
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Data collection in CDF Meteorological Station in Puerto Ayora.

Photo : CDF Archives.



LETTER FROM THE PRESIDENT

For nearly every one of its 53 years, it could be written that “it has been a year of great change for the Charles Darwin Foundation”, and 2011 is no different. Our mission is to provide science that will help to conserve the environment and biodiversity of the archipelago and that enables decision-makers to work towards a truly sustainable Galápagos. We are doing this within the context of dynamic changes in the commercial, political, and social landscapes of the Galápagos islands. It is perhaps fitting that in this bastion of evolution, the Charles Darwin Foundation continually evolves as a matter of adaptation.

Our Executive Director, Swen Lorenz, spent the second half of 2011 helping to rescue the organization from a funding and organizational crisis that threatened the very existence of the institution. You will read more about the transformation that followed in the Executive Director’s report on the following page.

The Charles Darwin Foundation continues to achieve world-class science in support of conservation, through our own scientific staff, collaborating scientists, and by our support of visiting scientists. One of the most notable recent achievements has been the introduction of Datazone (<http://datazone.darwinfoundation.org>), a one-stop website that represents a single portal through which information can be disseminated. The huge amount of research that has been compiled in Galápagos has always suffered from insufficient distribution, and Datazone should go a long way in correcting that, as well as offering an excellent tool to reach out to our variety of audiences. I encourage the General Assembly members to promote the use of the Datazone.

Funding continues to be our greatest challenge. Executive Director Swen Lorenz and I have worked hard to reestablish the trust of several committed donors and to open doors to new potential funders. Because charity has to begin at home, we are also looking inwards for funding. Members of the Board and Executive team have pledged a sizable donation, for the first time in the history of the organization.

The Board also underwent change in 2011 with Edmund Truell, Patricia Leon, and Burr Heneman becoming Directors. In early 2012, Carlos Baca, a Quito-based consultant in public policy design, political communication, and political risk analysis, also became a Director.

The Charles Darwin Foundation continues its important and unique role in Galápagos conservation. The entire Board, the members of which you can read about on page 21 and 22, will continue to work with the Executive team, the Galápagos National Park Service, our donors, and other key partners to help provide key scientific advice towards the conservation and sustainable development of the Galápagos Islands.

DENNIS GEIST
PRESIDENT OF THE BOARD CHARLES DARWIN FOUNDATION



Photo: D. Geist.

Luis Ortiz showing children from Floreana Island how birds are banded for research.

Photo: C. Georgii



LETTER FROM THE EXECUTIVE DIRECTOR

I joined the Charles Darwin Foundation as a Board member in November 2010. In July 2011, I took over as Executive Director when the Board asked me to oversee a re-engineering process focused on increasing the institution's responsiveness to needs in Galápagos and ensuring its long-term financial health.

My personal interest and engagement in Galápagos dates back to 2006, when I helped set up and fund a vocational education initiative in Santa Cruz. Since then the "Escuela Gastronomía" has become a well-established and financially sustainable operation. During the ensuing six years, I have spent extended periods of time in the islands, investing in several projects related to education and sustainable livelihoods. I accepted this new challenge because I am convinced of the important role the Charles Darwin Foundation must continue to play in Galápagos.

The Charles Darwin Foundation is not only the archipelago's oldest private scientific research organization, it is also an institution that I believe the islands could not live without. There are manifold challenges endangering the biodiversity and environment of the Galápagos, and additionally the social challenge of having to achieve the "Buen Vivir" (good living) for local communities. Now more than ever is the time to invest in solid scientific research, in order to reach out to the decision-making bodies of the Government of Ecuador and provide them with sound information and technical advice.

I initiated a process that involves deep changes in the organization's structure, staffing and programs. I am committed to partnerships and collaborations, and as a result have been working closely with some of our largest and longest-standing donors, who are supporting this change process strategically as well as financially. During the past year, we have started a process that includes:

- Restructuring and downsizing the CDF's finance and administration departments
- Reducing staff in non-priority programs
- Strengthening international partnerships
- Exploring new income generating opportunities
- Strengthening dialogue and planning with key government stakeholders and other conservation partners.

Following this period of internal reorganization, we must now begin to focus on strengthening our scientific capacity. As part of the first steps, in August 2012 we contracted one of the world's leading experts on invasive invertebrates in Galápagos, whose contributions will directly benefit our crucial relationship with the Galápagos National Park Service, our closest partner on the islands. To provide for a closer collaboration with the Galápagos National Park Service, I created the post of Program Director and hired an outstanding individual with scientific experience as well as a proven track record for successfully working with public institutions in Galápagos and managing large-scale projects.

I speak for the entire organization when I say that we remain deeply committed to Article 3 of our Statutes, which in 1959 determined that the Charles Darwin Foundation's mission is: *"to provide knowledge and assistance through scientific research and complementary action to ensure the conservation of the environment and biodiversity in the Galápagos archipelago."*

We offer our sincere appreciation and thanks to all of our donors, partners, members, collaborators, visitors, staff members and stakeholders.



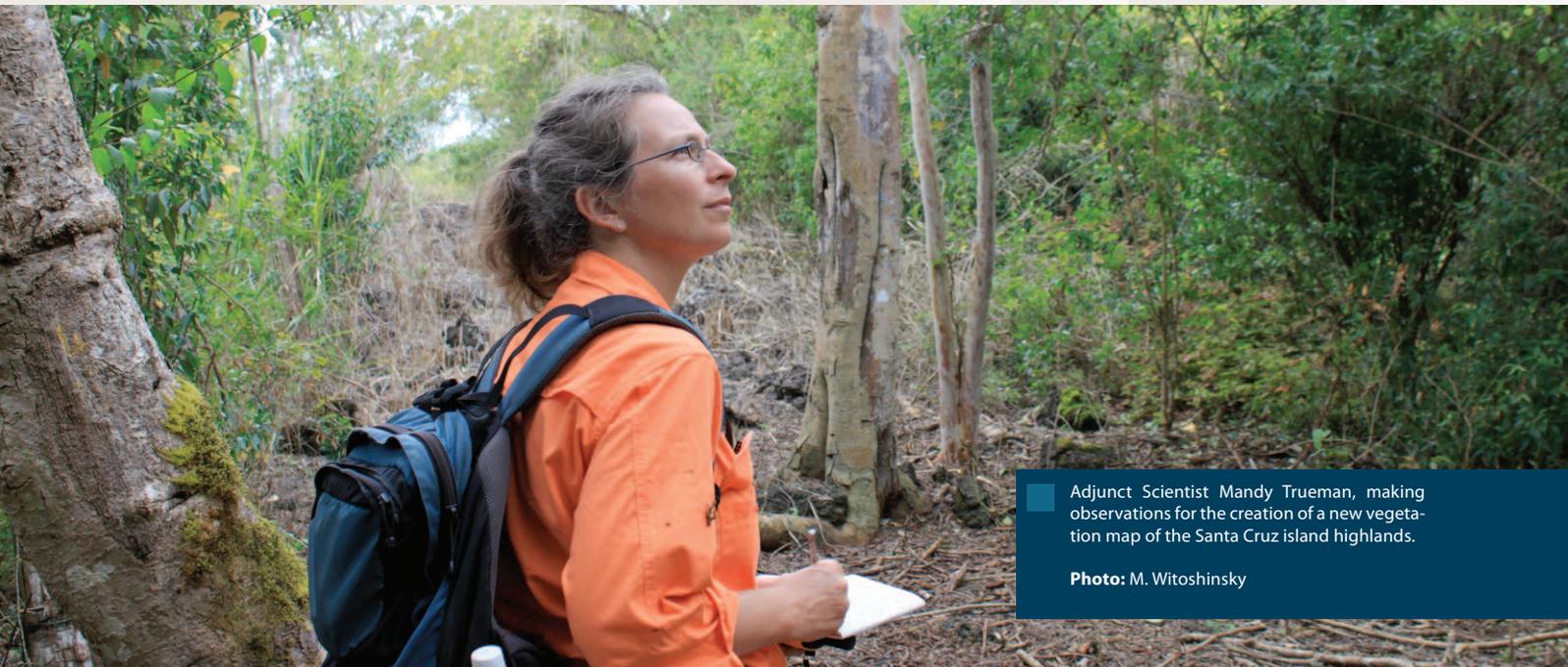
Photo: S. Lorenz.

SWEN LORENZ
EXECUTIVE DIRECTOR CHARLES DARWIN FOUNDATION

2011 ACCOMPLISHMENTS

The Charles Darwin Research Station in Puerto Ayora is the heart of our operation, but our activities reach much further and are not always visible from the outside. Our research station is the home – in many cases, quite literally – to resident scientists from Ecuador and abroad. I am particularly proud of our investigators who are permanent residents, some of whom have been with us for up to 15 years already and bring not only a wealth of experience but also a particularly strong passion for the islands that they and their families call home.

At the time of publishing this report, we had 10 senior scientists, from the following countries: **Ecuador** Dr. Daniel Orellana, Dra. Piedad Lincango, MSc. Patricia Jaramillo, MSc. Cesar Peñaherrera **Mexico** Dr. Luis Ortiz **New Zealand** MSc. Francesca Cunningham **Great Britain** MSc. Stuart Banks **Spain** Dr. Pelayo Salinas de León **Germany** Dr. Frank Bungartz **USA** Dra. Charlotte Causton



Adjunct Scientist Mandy Trueman, making observations for the creation of a new vegetation map of the Santa Cruz island highlands.

Photo: M. Witoshinsky

Our research portfolio consists of approximately 50 projects, covering marine, terrestrial, restoration and social science areas. Given the plethora of projects, it is difficult to present a comprehensive overview of our work and impossible to give each person the credit due. Some of the outstanding projects of 2011, many of which continued into 2012, included the following:

SOCIAL SCIENCE

This program deals with the activities and impacts of the islands' residents, and their relationship with the protected natural areas of Galápagos. The Galápagos Geographic Index Project has collected and analyzed a great deal of data about perceptions, attitudes and life styles from the local population and tourists. The project also includes information about the most important service sectors including water supply, transportation, waste management, and tourism. We are now researching the mobility and movement patterns of residents and tourists. All this information is geo-referenced and digitalized and fed into a geographical information system which will provide a tool for further investigations about the impacts and relationships between populated areas and protected areas and their users. This will enable decision makers to easily access and consult crucial information in order to make informed decisions for the archipelago's populated and protected areas.



RESTORATION SCIENCE

This program focuses on repairing or at least mitigating the consequences of human impacts on the endemic flora and fauna of Galápagos. The principal threat to the endemic flora and fauna are introduced species; these include competitors, parasites, vectors and pathogens. The restoration science program focuses on the conservation of some of the rarest and therefore most threatened species in the world, including the Floreana Mockingbird and the Mangrove Finch.

The Floreana Mockingbird (*Mimus trifasciatus*) has been extinct on its island of origin for nearly 130 years and only two small remnant populations survived on satellite islands to the north and east of Floreana.

The Mangrove Finch (*Camarynchus heliobates*) project deals with one of the 13 species of Darwin finches endemic to the Galápagos Islands. Similar to the Floreana Mockingbird, it is one of the rarest breeding birds in the archipelago with an estimated population of around 100 individuals remaining on the northwest coast of Isabela. This severe decline in range has occurred during the last 100 years for reasons which are largely unknown. The main known threats come from predation by introduced black rat (*Rattus rattus*) and loss of nestlings through the introduced parasitic bot fly, *Philornis downsi*. The finch is also at risk in the future from loss of genetic diversity, contact with introduced pathogens, climate change effects and unpredictable events such as land uplifts.



A photograph of a man, Henri Herrera, wearing a white cap, sunglasses, and a backpack, crouching in a dry, rocky landscape. He is holding a large, white, flat, rectangular object, possibly a tray or a piece of paper, and appears to be examining it. The background shows a valley with a river and some cacti under a blue sky with scattered clouds.

Henri Herrera collecting samples of terrestrial invertebrates.

Photo: CDF Archives.

BIODIVERSITY AND KNOWLEDGE MANAGEMENT

This program manages the Natural History Collection of Galápagos specimens (Herbarium, Vertebrate Collection, Marine Collection and Invertebrate Collection) that provides the long-term resources necessary for species identification and taxonomic research about the biodiversity of the Galápagos. These collections are essentially scientific libraries of biodiversity. As a first step, CDF's Natural History Collections were integrated to establish a taxonomic standard of all species known from Galápagos and provide tools to manage taxonomic and specimen based data. CDF's strategy is to integrate, manage and provide scientific research efficiently using modern data management and IT infrastructure. The CDF "Datazone" is the most comprehensive database of Galápagos flora and fauna, environmental factors, and scientific publications. Other databases also integrated into the Datazone are the Meteorological Database, CDF's research journal Galápagos Research and CDF's Library Catalog. Its principal objective is to share this knowledge among the scientific community and our institutional stakeholders, partners and decision-makers. Currently, we are adding more descriptive and ecologically informative data as well as photos, and geographic and monitoring components to improve its didactic value. In the long term the CDF Datazone will become the single platform that efficiently shares scientific information generated by CDF and collaborators with our partners. CDF is the organization collecting, contributing and sharing this unique data collection with the world.

A close-up photograph of a lichen, identified as Ramalina sideriza. The lichen is a complex, branching, yellowish-green structure with numerous small, round, white, cup-like structures (apothecia) scattered throughout. It is growing on a dark, textured surface, possibly a rock or a piece of wood, against a dark blue background.

Lichen (*Ramalina sideriza*). Photo: F. Bungartz

MARINE SCIENCES

The Marine Science program is CDF's most extensive research area. Flagship projects deal with the design and development of long term Galápagos Marine Reserve (GMR) monitoring and evaluation, sustainable fisheries research and the ecology of marine species of concern.

Our Marine Turtle project is an example of how CDF's research helps to conserve the unique biodiversity of Galápagos and finds solutions to mitigate the impact of human activities.

Galápagos is the second most important nesting area for the East Pacific green turtle after Mexico. As green turtles from Galápagos form part of feeding aggregations throughout the Eastern Pacific, they are subject to by-catch, poaching, and other threats outside the Galápagos Marine Reserve. To ensure the wellbeing of green turtles in the Galápagos, long-term nesting data and local threat assessments from the most important beaches are vital to evaluate population trends, mitigate threats and evaluate the potential impacts of climate change and variability. Each year the CDF Marine Turtle project protects 2500-3000 nests at two key nesting sites and contributes to informed management decisions for green turtle conservation in the Eastern Pacific.



Eastern Pacific Green Sea Turtle (*Chelonia mydas*).

Photo: P. Stucki

THE OUTREACH PROGRAM

This Program is CDF's newest area and replaces what was formerly known as the Technical Assistance program. The Outreach Program is CDF's link between its science programs and our partners and clients in Galápagos and the mainland of Ecuador. The program was created in August 2012 and currently consists of five components:

COMPONENT 1. Public Policy: Establishes key alliances with strategic partners.

COMPONENT 2. Environmental Education: This component has the longest trajectory within the Outreach program. Its role is to promote the formation of a society that cares about the environment and its conservation through appropriate behaviors, attitudes and values.

Its work is implemented by sensitizing and informing the community about the CDF's Science priorities and by supporting education for sustainable development through strategic partnerships with various local actors. Some of these actors during this period were: Galápagos Biosecurity SICGAL Agency (previously known as Ecuadorian Agricultural Quality Assurance Agency and Galápagos Quarantine System, Agrocalidad SICGAL); Autonomous Municipal Governments of Isabela and Santa Cruz; Floreana's Parish Government and the Amazonas School, among others.



Environmental education's shadow theater showing Charles Darwin's scientific work.

Photo: C. Georgii.

During the past year, numerous environmental awareness campaigns on various subjects took place in different parts of the province. Among the most significant ones were:

- At a provincial level, native gardens; support to Galápagos Bios-security SICGAL Agency quarantine system, and, dissemination of Charles Darwin scientific work;
- Floreana - introduced species, preventing the entry of the giant african snail and the fruit fly; and Galápagos importance for the theory of evolution;
- Isabela - mangrove finch and wetlands conservation;
- Santa Cruz, water conservation.

The different subjects were presented with a variety of methods, but primarily using "edutainment" (entertaining and educating at the same time). Comic books, puppets and the highly innovative shadow theater (a first for Galápagos) added a rewarding and fun element to the subjects. To promote the various campaigns, mass media was used.

COMPONENT 3. Science Communication: Disseminates science findings among a variety of general and specialized audiences.

COMPONENT 4. Technical Assistance: Provides advice for institutional capacity building.

COMPONENT 5.- Management of CDF's Library.

To establish a baseline for this program, CDF conducted a stakeholder assessment strategically analyzing CDF's current situation in the local and national political context. We found that CDF needed to strengthen its relationships with local stakeholders and align its activities much more closely with the needs and priorities established by the national government in both its institutional and national planning. We also found a disconnection with local and national institutions, resulting in criticism of the role of the CDF and its collaboration in the conservation of Galápagos. Our response was to establish the Outreach Program as an extension to the science programs. CDF's Program Committee has incorporated the improvement of inter-institutional relationships and appropriate communication of scientific knowledge into its work on conservation priorities, so that CDF research becomes valuable information for conservation management.

All of these projects have one thing in common: they are driven by dedicated individuals, many of whom work under extremely challenging circumstances such as our partially outdated research station infrastructure, extreme heat and sometimes even downright dangerous conditions in the field, or the constant struggle to find funding at a time when charitable giving is affected by a global financial crisis. I am therefore all the more proud of my colleagues who dedicate their scientific passion to achieve these phenomenal outcomes.

www.facebook.com/darwinfoundation
(3-4 updates per week)

www.darwinfoundation.org/datazone
(our collected scientific research, for free)

At this point, I would like to thank our collaborators, visiting scientists, scholarship students, as well as our national and international volunteers.

A special thank you to the Government of Ecuador, the Galápagos National Park Directorate and to our donors and funders, without whom none of this crucial work would be possible.

DR. ULF HAERDTER
PROGRAM DIRECTOR CHARLES DARWIN FOUNDATION

Adjunct Scientist Sergio Miquel giving technical training to GNPD and Galápagos Biosecurity SICGAL Agency personnel concerning the Giant African Snail.

Photo: CDF Archives.



A top-down photograph of a large tortoise with a dark, textured shell. The tortoise is positioned in a shallow puddle of water, and its head and front legs are visible. It is eating green grass, with several blades protruding from its mouth. The water in the puddle is dark and still, creating a clear reflection of the tortoise's head and the grass it is eating. The background consists of green grass.

Santa Cruz Island Giant Tortoise (*Chelonoidis nigrita*).

Photo: P. MacFarling

FINANCIAL REPORT

Funding of the Charles Darwin Foundation relies on donations, corporate sponsorships, Governmental contracts and income generated from the operation of its visitor shop. The international community continues to be the mainstay and primary support of our programs.

As a scientific organization, traditionally around 60% of our budget goes towards wages. This includes expenses for an ongoing commitment to our scholarship and volunteer program, which gives priority to the local community and focuses on capacity building for local environmental conservation. Administrative expenses for operating the research station in Galápagos also support important programs such as the visiting scientist program. The physical installations of the research station require ongoing maintenance and improvements.

During the recent global financial crisis, the Charles Darwin Foundation's income has decreased from \$4.24m in 2008 to \$3.06m in 2011. In 2012, we have continued to cut costs but also started to invest more into our fundraising capacity, where we are working with our strategic, long-term partners. Our partnerships with our donors, some of whom have been funding us for decades, have been crucial in managing the challenges of the past few years.

REVENUE AND EXPENSES	DECEMBER 31, 2012
REVENUE	
Donations Received	2,481,461
Own Income	568,099
Interest Gain	3,452
Other Income	316,690
Donations in Kind	5,354
TOTAL REVENUE	3,375,055
EXPENSES	
Salaries and Benefits	2,239,403
Travel Expenses	266,868
Office Supplies	74,547
Maintenance and Public Services	126,089
Lab Supplies	9,142
Field Supplies	56,163
Vehicles and Boats Expenses	16,015
Insurance Premium	2,547
Courier	84,450
Meetings and Workshops	14,440
Communication and Advertising	12,119
Legal and Tax	99,472
Consulting Fees	332,495
Inventory Purchased	55,918
New Assets Purchased	57,706
Depreciation Expenses	73,962
TOTAL EXPENSES	3,521,335
Cost of Good Sold Kiosk	210,732.67
Cost Rooms and Houses	11,267.05
TOTAL COSTS + EXPENSES	3,743,335.06
DEFICIT	-368,280.20

CDF DONORS 2011

CDF's objective, science-based information provides a crucial counterpoint to local decision-making processes and helps guide policy and management decisions concerning the archipelago. Our success depends on partnerships with agencies such as the Government of Ecuador, local officials, businesses and other stakeholders involved in the conservation and sustainable management of the Galápagos.

The following individuals and organizations made our work possible throughout 2011 and we thank our partners for their continued support.

CORPORATIONS	
\$500,000	International Watch Company, Schaffhausen
\$50,000 - \$99,999	Veolia Foundation
\$20,000 - \$49,999	BESS Forest Club (E) Diners Club , Ecuador Keidanren Nature Conservation Fund
FOUNDATIONS/ NON-GOVERNMENTAL ORGANIZATIONS	
\$100,000 - \$250,000	• The Leona M. and Harry B. Helmsley Charitable Trust • MAVA Foundation
\$50,000- \$99,999	• Offield Family Foundation (B) • Prince Albert II of Monaco Foundation • Conservation International
\$10,000 - \$49,999	• Bay and Paul Foundations (B) • Fauna and Flora International • Oak Philanthropy Limited • Simons Foundation • World Wildlife Fund Galápagos
\$5,000 - \$9,999	• Cameron Foundation (B)
\$1,000 - \$4,999	• AE Charitable Foundation • Erwin-Warth Stiftung (C) • Geographic Expedition's Responsible Travel Program • The Finnish Nature Photographers' Association
\$500 - \$999	• Penguin Fund of Japan
GOVERNMENT, BILATERAL AND MULTILATERALS	
\$25,000 - \$49,999	• Belgian Science Policy Office
TRAVEL PARTNERS	
\$200,000	• Lindblad Expeditions/National Geographic Fund
\$1,000 - \$9,999	• Galapagos Travel (B) • Holbrook Travel • Steppes Discovery • The Intrepid Foundation • Wilderness Travel

INDIVIDUALS**\$10,000 - \$49,999**

- Ahti Heinla
- Michael Klett (C)

\$1,000 - \$9,999

- Anonymous
- Richard Coulter
- Alastair Firkin
- Jeanne and Dov Haselkorn
- The Estate of Nico Minardos
- Peter Kramer Fund
- The Estate of Christa Petersen-Frey
- Swen Lorenz
- The Estate of Madeline Hastings
- Jay Venkatesan

\$500 - \$999

- Rob Clack
- Nicole Frame
- Eva Huston
- Charles Mills

\$1-499

Unfortunately, due to space restrictions in this report, we do not have room to list the many donors in this category. Your support is very much appreciated.

IN-KIND SUPPORT

- Aerolíneas AEROGAL
- Embajada China en Ecuador
- Galapagos Aggressor I & II
- Hotel Dann Carlton Quito
- Hotel Oro Verde Guayaquil
- Randal Keynes
- Lindblad Expeditions
- Godfrey Merlen
- Aerolíneas TAME
- Beate Hillmann
- Sveriges Lantsbruk Universitet

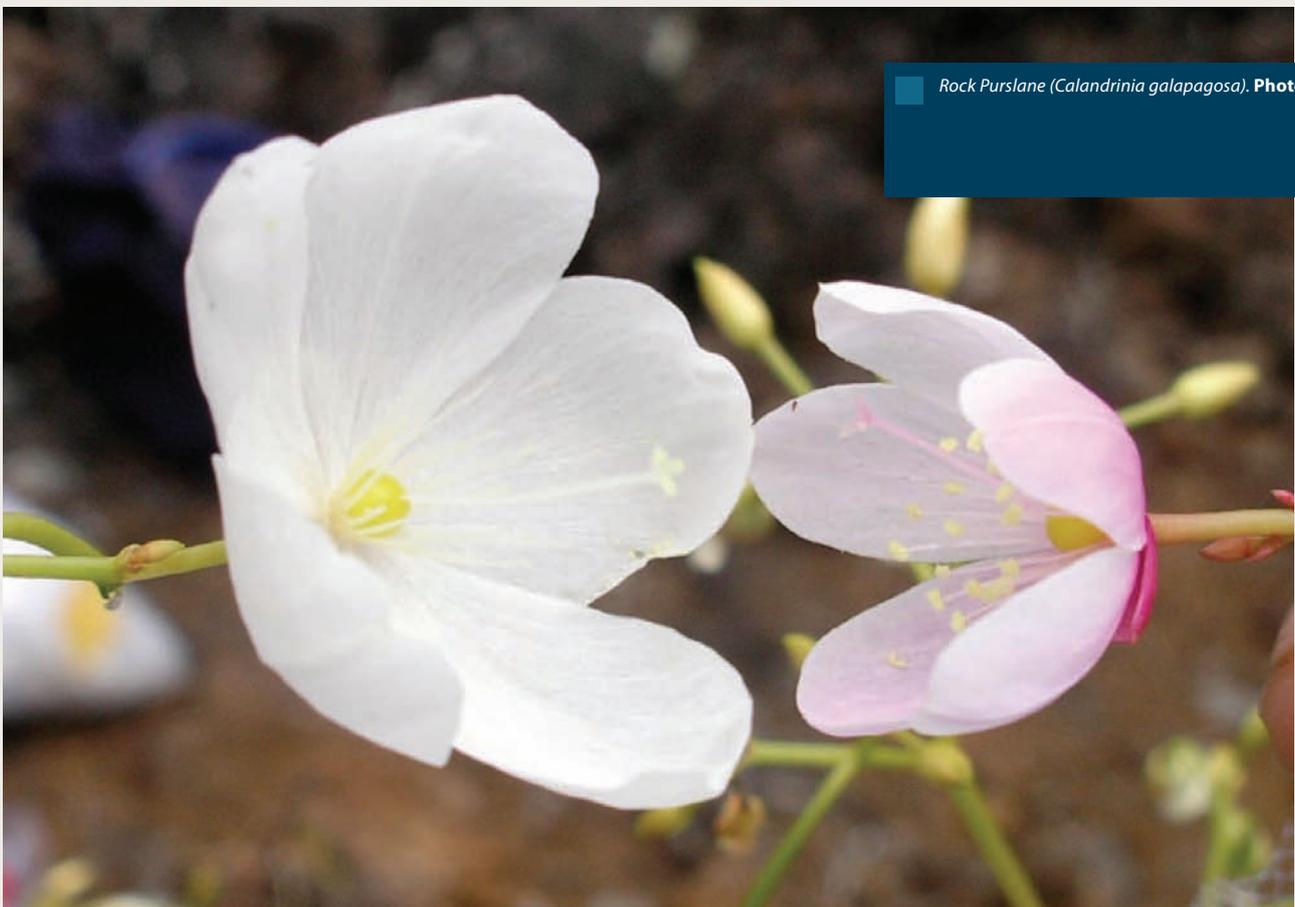
FRIENDS OF GALAPAGOS ORGANIZATIONS (FOGOs)

Friends of Galapagos Organizations are national organizations spread across the globe who share a collective vision for conservation in Galápagos. By working with their network of donors (individuals, foundations, and others), FOGO's instigate fundraising campaigns and often play a pivotal role in obtaining and administering specific grants.

We are grateful to our much valued FOGO partners.

FRIENDS OF GALAPAGOS ORGANIZATIONS (FOGOs)	
\$485,000	Galapagos Conservancy, U.S
\$50,000 - \$99,999	Frankfurt Zoological Society - Help for Threatened Wildlife, Germany. The Galapagos Darwin Trust, Luxembourg. Galapagos Conservation Trust, United Kingdom.
\$10,000 - \$49,999	Friends of Galapagos Netherlands. The Japanese Association for Galapagos (JAGA).
\$1,000 - \$9,999	Friends of Galapagos Switzerland.

Some of CDF's support is received through partnerships with Friends of Galapagos Organizations: (FOGOs) A) Galapagos Conservation Trust, B) Galapagos Conservancy, C) Frankfurt Zoological Society, D) Swiss Friends of Galapagos, E) Japan Association for Galapagos.



Rock Purslane (*Calandrinia galapagosa*). Photo: P. Jaramillo

SUPPORT THE WORK OF THE CHARLES DARWIN FOUNDATION

The CDF is the only organization offering onsite research, knowledge, information and technical assistance to ensure the conservation of Galápagos ecosystems and biodiversity. In order to find out more about our work visit our website at:

www.darwinfoundation.org

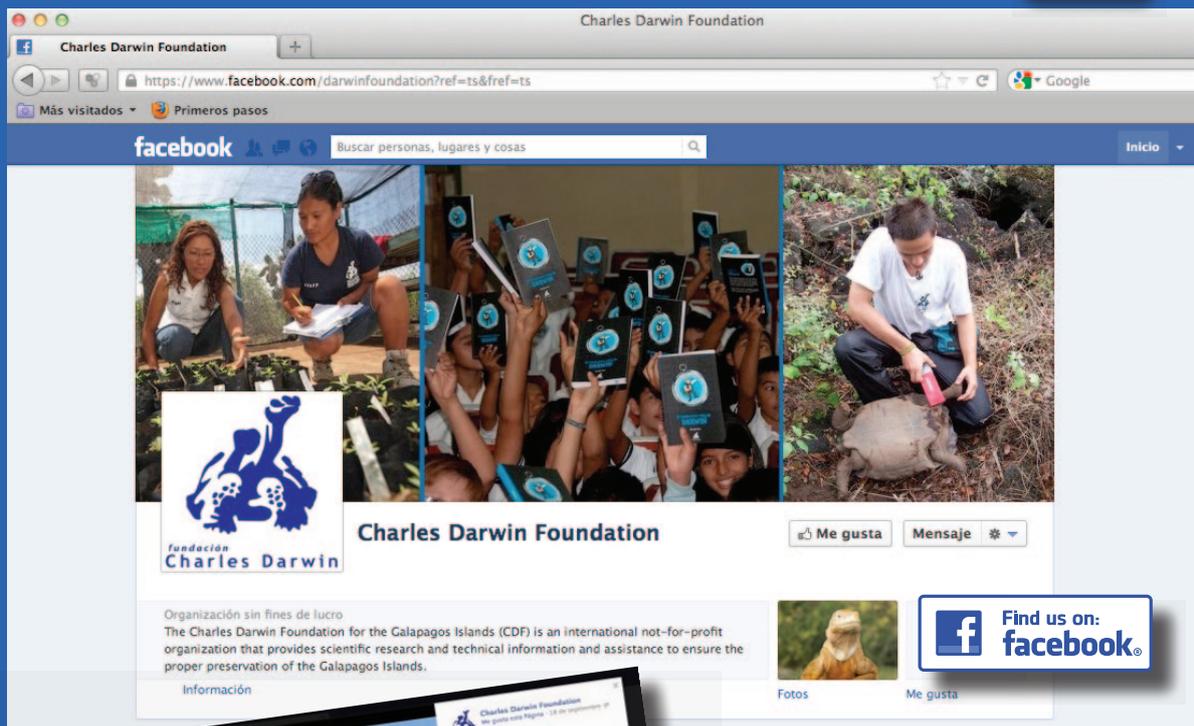
Our work is not possible without your support. Please help us by making a gift to bring us closer to a sustainable future for the archipelago. We have partnered with PayPal to offer secure and convenient transactions anywhere in the world. Visit our website at www.darwinfoundation.com for more details on how you can support the work of the CDF. For individual enquiries, please contact cdrs@fcdarwin.org.ec.

Help raise funds for CDF by shopping at: www.amazon.com
Amazon will donate 4% on each item you purchase via our website.

Be a part of Charles Darwin Foundation's online community.

By **"liking"** Charles Darwin Foundation's Facebook page you can find out about project news, field updates and events as well as download free and exclusive interactive content. Our page is updated regularly and is ideal for anyone with an interest in our work in Galápagos.

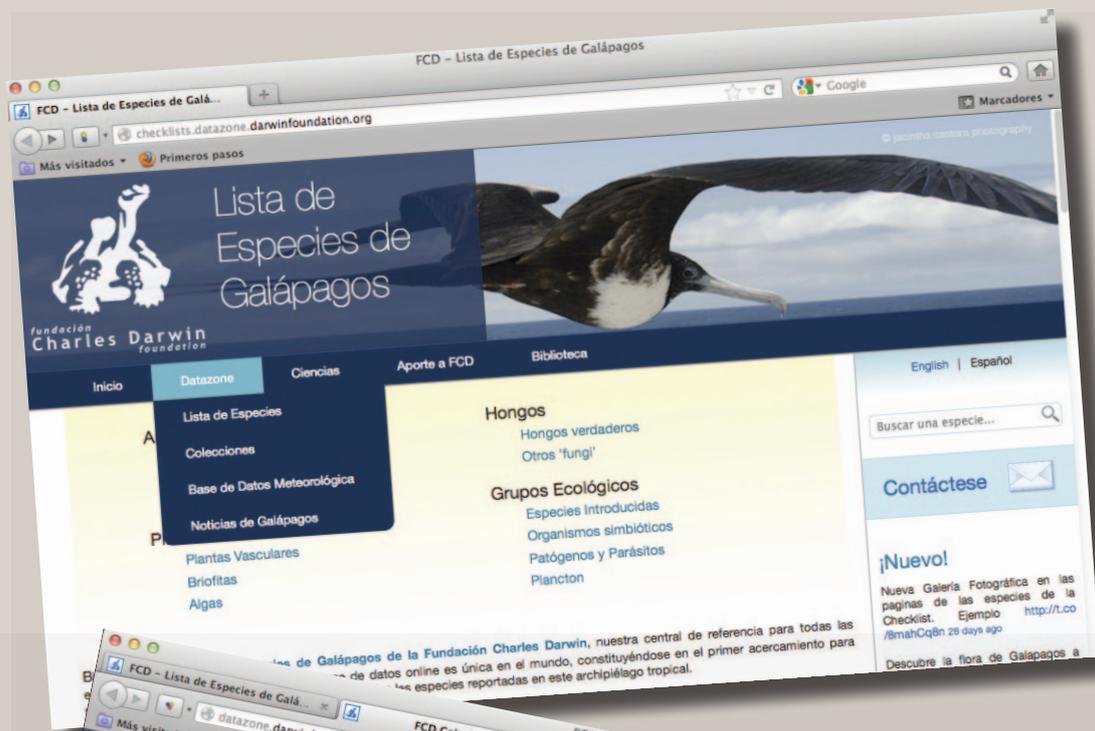
Check out: www.facebook.com/darwinfoundation and click 



VISIT CDF'S DATAZONE

Datazone is a first step to integrate CDF scientific data and information relevant to Galápagos conservation in a modern and dynamic way, made available for the entire world. All databases can now be searched through one common framework directly from our main website in both English and Spanish languages, providing open, creative commons access to our data:

- CDF Galápagos Species Checklists <http://www.darwinfoundation.org/datazone/checklists/>
- CDF Collections Search <http://www.darwinfoundation.org/datazone/collections/>
- CDF Meteorological Database <http://www.darwinfoundation.org/datazone/climate/>
- CDF Galápagos Research *online* <http://www.darwinfoundation.org/datazone/galapagos-research/>



GENERAL ASSEMBLY MEMBERS

The General Assembly is the governing body of the CDF and reflects its international character. Members include scientists, philanthropists, Ecuadorian government officials, and other people and partners dedicated to the CDF's mission. The Assembly sets policy, issues regulations, elects five of the nine Directors, and approves the operating plan and budget, as well as managing other important matters. The president of the CDF Board of Directors presides over the General Assembly at its annual meeting in Ecuador.

BOARD MEMBERS

Dennis Geist - President
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International Union for the Conservation
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WE ARE CDF

The efforts of the CDF depend on a hardworking and dedicated group of people. More than 70% of CDF staff are permanent residents in Galápagos and nearly 90% are Ecuadorian.

SCHOLARS

The CDF awards scholarships to exceptional students in Galápagos and provides financial aid and other forms of support to promising Ecuadorian postgraduate students in the fields of conservation, science and education.

VOLUNTEERS

National and international volunteer students and professionals benefit from hands-on conservation experience with the CDF. Their considerable expertise and dedication contributes to building the Foundation's capacity to effectively respond to the challenges facing Galápagos.

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LIST OF ADJUNCT AND VISITING SCIENTISTS

The CDF's Adjunct and Visiting Scientists are an international network of scientists from various institutions which also conduct research in Galápagos with the approval of the GNPD. Adjunct Scientists contribute to CDF's projects with expertise and funds. Visiting Scientists conduct additional complementary projects independently but with the CDF's logistical support. Their efforts also contribute to the conservation of Galápagos.

ADJUNCT SCIENTISTS (LEADING SCIENTISTS AND THEIR TEAMS)

Blakes Stephen & Martin Wikelski (Max Planck Institute for Ornithology, Germany) Ecology of the restoration of the giant tortoise on Santa Cruz, Galápagos.

Cárdenas Susana (California University, Davis, USA) Economic assessment of conservation scenarios of threatened sharks in the Galápagos Marine Reserve. Dan Lew.

Causton Charlotte (CDF) 1) Evaluation of *Icerya purchasi* biological control program, 2) The threat of *Philornis downsi* for Darwin's finches: search of solutions, 3) Evaluation of invasive ants programs in the Galapagos Islands.

Fredlander Alan (Hawaii University, USA), Life history of the Galápagos Grouper (*Mycteroperca olfax*), an endemic and very important commercial species: implications for the purpose of fishing and protected marine areas. Paolo Usseglio.

Gaulter Jessica (Creighton University, USA) Understanding the black fly of San Cristobal. John McCreadle, Cecilia Coscaron, Charles Brockhouse.

Hearn Alexander (California University, Davis, USA) Loyalty and behavior patterns of ocean sunfish, *Mola mola*. Thierney Thies, Kevin Weng.

Heimpel George (Minnesota University, USA) Biological Control of *Philornis Downsi* in the Galápagos islands.

Heinke Jäger (Berlin Technical University, Germany) Understanding ecological processes for the restoration of highland ecosystems in the inhabited islands.

Huyvaert Kathryn (Colorado State University, USA), Conservation biology and population monitoring of the Galápagos albatross (*Phoebastria irrorata*). Paul Doherty.

Klimley Peter (California University, Davis, USA) Investigation and conservation of sharks in the Galápagos Marine Reserve. Alexander Hearn, Jonathan Green, Tom Lucas, John Friday, Alfredo Barroso.

Luzuriaga Nivia (Université Pierre et Marie Curie, Paris, France.) Adaptive steps of the common terrestrial birds of the Galápagos islands. From monitoring to conservation. Pierre-Yves Henry.

Parent Christine (Texas University, USA) Floreana Island Biodiversity Inventory. Sergio Miquel, Marisol Vigillito.

Parker Patricia (Missouri-St.Louis Zoo University, USA) 1) Galápagos Seabird Monitoring Program 2) Analysis of blood parasitosis and phylogeny of the brown pelican of Galápagos 3) Hawk Project. Rachel Sippy, Dan Hartman, Jane Merkel, Allisyn Gillet, Tjitte De Vries, Pablo Sánchez, Gabriela Toscano, Diego Alarcón, Andrés Morabowen.

Ruiz Ballesteros Esteban (GISAP Social Research and Participatory Action Group) Conservación Anthropology in Galápagos. Miguel Gual, Javier Andrada, Pedro Cantero.

Seddon Alistair (Oxford University, UK) Local endemics or rare ecological specialists. Are the Galápagos isolated for diatoms?. Catherine Downy, Andrzej Witkowski.

Spielmann Adriano (UFMS - Federal University of Mato Grosso do Sul) Galápagos Parmeliaceae Lichen Family Inventory.

Teale Stephen (State University of New York, USA) Chemical attractants of *Philornis downsi*, an invasive parasite of birds in the Galápagos. Kristin Doherty.

Traveset Anna (IMEA Mediterranean Institute of Advanced Studies) Mutualist webs in the Galápagos Islands. Direct and indirect impacts of invasive species on threatened plants. Manuel Nogales, Pablo Vargas, Jens Olesen, Rubèn Heleno, Conley McMullen.

Trillmich Fritz (Bielefeld University, Germany) Population biology and health of the Galápagos sea lion (*Zalophus wollebaeki*). Oliver Kruger, Kristine Meise, Paolo Piedrahita, Jessica Farrer, Beate Zein.

Tudhope Alexander & Cole Julia (Arizona University, USA) Changes and Variability in the Galápagos Climate: Unique Marine Coral Registries. Colin Chilcott, Anne Meriwether Wilson.

Violette Sophie (Pierre et Marie Curie Université, Paris, France) Study of hydrological functioning in the Galápagos islands, Alexandre Pryet, Noémie d'Ozouville, Bennoit Deffontaines, Michèle Adler, Pierre Adler, Marie Alix Dalle, Audrey Dounot.

Wauters Nina (Free University of Brussels, Belgium) Genetic and ecological aspects of the invasion of the tropical fire ant (*Solenopsis geminata*) in the Galápagos Archipelago. Luisa Martín Cerezo.

Witman Jonathan (Brown University, USA) Effects of outcropping and productivity in subtidal rock wall communities, Leslie Howitt, Natalie Hui Ning, Franz Smith.

Wolf Matthias (Bremen University, Germany) Differences in natural succession and food web structure in subtidal benthic communities. Diego Ruiz, Claire Reymund, Hidegard Westphal, Paul Tompkins.

Young Howell Glyn (DURRELL Wildlife Conservation Trust, UK) Mangrove Finch and Floreana Restoration.

VISITING SCIENTISTS (LEADING SCIENTISTS AND THEIR TEAMS)

Anderson David (Wake Forest University, USA) Galápagos Seabird Monitoring Program. Robert Cieri, Sarah Bastarache, Emily Tompkins, Jennifer Howard, Katherine Studholme, Jacquelyn Grace, Denis Mosquera, Amy Cynthia Liang, David Anchundia, Kevin Anderson, Fernanda Escobar.

Clark David & Rowe John (Alma College, USA) Natural selection in relation to characteristics of color and social behavior in the lava lizard (*Microlophus spp.*). Lauren Stevenson, Mariah Nawrot, Joseph Macedonia, Esteban Jiménez, John Recalde.

Clayton Dale (Utah University, USA) Impact of introduced and native ectoparasites on Darwin's finches and Galápagos Mockingbirds. Emily Diblasi, Jordan Herman.

Geist Dennis & Harpp Karen (Idaho University, USA) Volcanic Evolution of Galápagos Volcanoes. Emily Wilson, Darlin Schwartz, Marcos Almeida, Jillian Schleider, Rita Van Kirk.

Grant Peter & Grant Rosemary (Princeton University, USA) Ecology of the populations of Darwin's finches on Daphne Major.

Kitayama Kanehiro (Kyoto University, Japan) Ecology and climate of the dry highland vegetation zone on high volcanic mountains in the Galápagos Islands. Kuraji Koichiro.

Kleindorfer Sonia (Vienna University, Austria) Studying bio-control for *Philornis downsi* and Darwin's finches across inhabited islands. Jeremy Robertson, Diane Colombelli-Negrel, Bridget O'Connell, Katharina Peters, Valeria Zanollo, David Arango, Guido Parra.

Nemeth Erwin & Dvorak Michael (Max Planck Institute of Ornithology, Germany) Genetic, morphometric and acoustic differentiation in the Small Tree Finch (*Camarhynchus parvullus*) in San Cristobal, Galápagos. Wendelin Beate, Denis Mosquera.

Podos Jeffrey (Massachusetts University, USA) Morphology and vocal evolution of Darwin's finches, Luis De León Reyna, Jaime Chaves, Joost Raeymaekers, Karl Cottenie, Melissa Schepens, Carla Denis, Andrew Hendry.

Rowe John & Clark David (Alma College, USA) Natural selection in relation to characteristics of color and social behavior in the lava lizard (*Microlophus spp.*)

Tebbich Sabine (Vienna University, Austria) The impact of *Philornis downsi* on the reproductive success of the warbler finch (*Certhidea olivacea*). Sophia Stankewitz, Arno Cimadom, Birgit Fessl, Angel Jiménez.

Trillmich Fritz (Bielefeld University-Max Planck Institute for Ornithology, Germany) Biology of Galápagos sea lion populations (*Zalophus wollebaeiki* and *Arctocephalus galapagensis*), Kristine Meise, Paolo Piedrahita, Melchior Zimmermann, Oliver Krueger, Erin Kunisch.





David Acuña, team member of the Galápagos Marine Reserve Shark Research and Conservation program (DPNG, FCD, UC-Davis) measuring a Whale Shark (*Rhincodon typus*) with laser biometry.

Photo: J. R. Green

■ CDF MISSION

To provide knowledge and assistance, through scientific research and complementary action, to ensure the conservation of the environment and biodiversity in Galápagos.



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