



2013 EARTHWATCH ANNUAL REPORT



DEAR FRIENDS OF EARTHWATCH,

For more than 40 years, Earthwatch has been a pioneer in Citizen Science. Our unique model gives ordinary people the extraordinary opportunity to work side-by-side with renowned scientists, conducting important field research. This innovative approach to underwriting science is a win-win-win for scientists, volunteers, and communities.

For scientists, fundamental, field-based research is often expensive and difficult to fund. Earthwatch provides critical human resources for important labor intensive research projects. We prioritize research which helps us understand nature's response to accelerating global change.

For volunteers, Earthwatch expeditions offer travel to amazing places, a once in a lifetime opportunity to be a critical part of fascinating research, and the opportunity to have a personal impact. Our volunteers want to make the world a better place, and Earthwatch expeditions often serve as individual launch pads to new passions, insights, and actions to make our world more sustainable.

Communities near and far benefit from Earthwatch. Generous funders provide fellowships for employees, students, and teachers as well as local leaders from areas where research is conducted. This sponsored army of thousands enthusiastically bring their field research experiences and personal transformations back to their communities, work places, and classrooms. Being part of an Earthwatch field research team often gives individuals a new confidence to engage more personally and deeply in sustainable action in their own lives and circles of influence.

I would like to thank our donors, volunteers, partners, and scientists for making our unique citizen science model possible. Contributions of time and money bring our incredible mission to life. We all win with a vibrant and successful Earthwatch.

Sincerely,



Larry Mason
**CHIEF EXECUTIVE OFFICER
EARTHWATCH INSTITUTE**

OUR MISSION

Earthwatch engages people worldwide in scientific field research and education to promote the understanding and action necessary for a sustainable environment.

THE POWER OF CITIZEN SCIENCE

EARTHWATCH SCIENTISTS ARE ANSWERING CRITICAL QUESTIONS ABOUT NATURE'S RESPONSE TO ACCELERATING GLOBAL CHANGE

In the last three decades, nature has experienced global change never seen before in the history of human beings. Population growth, energy use, water and food consumption, climate volatility, and the loss of biodiversity are a network of interrelated challenges. By harnessing the power of citizen science, Earthwatch is supporting leading scientists as they research critical questions about nature's response to environmental change.

“Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it is the only thing that ever has.”

Margaret Mead

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EMPOWERING EARTHWATCH VOLUNTEERS TO TAKE A HANDS ON ROLE IN SUPPORTING IMPORTANT RESEARCH

For more than 40 years, Earthwatch has pioneered a unique model of hands-on citizen science. The ability to adapt to global environmental change needs sound scientific research, an increased awareness from people of all walks of life, and the foresight and planning to take impactful action. Volunteers take part in life changing experiences in the field and return home inspired and empowered. The mobilization of our communities, schools, and businesses is crucial to support the scientific research necessary to confront the most challenging environmental issues of our time.



PUBLIC ENGAGEMENT

ASSEMBLING OUR COMMUNITIES FOR ACTION

Members of the general public join Earthwatch Expeditions all around the globe. Volunteers work alongside leading scientists to facilitate and accelerate the collection of crucial scientific data, while taking part in transformational experiences with like-minded participants. Without volunteer involvement, scientists are limited by the resources available to them, which slows their progress. At Earthwatch, we support the public, students, teachers, and corporations to bring about real environmental understanding and impactful action.

In 2013, Earthwatch scientists and volunteers completed nearly 135,000 hours of research—the equivalent of 15 years of research condensed into one year. The research took place on over 50 expeditions around the world and led to new conservation laws, preservation efforts, and environmental policies. On the next page are a few highlights from an exciting and productive year in public engagement at Earthwatch.



RESTORING BIODIVERSITY

Dr. Alison Leslie has been researching the reintroduction of wildlife in Africa at Majete Wildlife Reserve, a park decimated by decades of illegal hunting. Due to her efforts supported by Earthwatch volunteers, medium-sized carnivores like the caracals, servals, and civets have naturally returned to the reserve. These preservation efforts also helped stop the continuation of illegal hunting in the region.



PROTECTING OUR NATURAL RESOURCES

Supported by Earthwatch volunteer research, Dr. Demian Chapman convinced the Convention on International Trade in Endangered Species (CITES) to protect biodiversity by extending restrictions on the shark fin trade. Because of Earthwatch volunteers and Dr. Chapman, the restrictions now protect the great hammerhead, oceanic white tip, and three other species previously unprotected by law.



SAVING SPECIES FROM EXTINCTION

The argali sheep, a majestic and proud animal that roams the Mongolian steppes, is currently considered a threatened and endangered species. Earthwatch volunteers have assisted in collaring 220 argali in Mongolia since 2000, resulting in a better understanding of their movement, efforts to combat illegal hunting in the area, and conservation of the argali.



LOCAL ACTION RESULTS IN GLOBAL POLICY INITIATIVES

Armed with data on the Amazon rainforest that Earthwatchers have been collecting since 1990, Dr. Richard Bodmer has helped shape environmental policy and the co-management of land between local Peruvians and government agencies. As a result, he has influenced the government's positioning as it prepares to host the United Nations' annual conference on climate change.



UNCOVERING THE MYSTERIES OF ANCIENT COLORADO

Thanks to the excavation efforts of Earthwatch volunteers, Dr. Shirley Powell's research led to the addition of the Indian Camp research site to the National Register of Historic Places. The district was accepted to the register because of its unique ability to preserve information about the Basketmaker III era, a period rich with history and understanding about Pueblo Indian Society in North America.



EDUCATIONAL ENGAGEMENT

INSPIRING TEACHERS AND STUDENTS

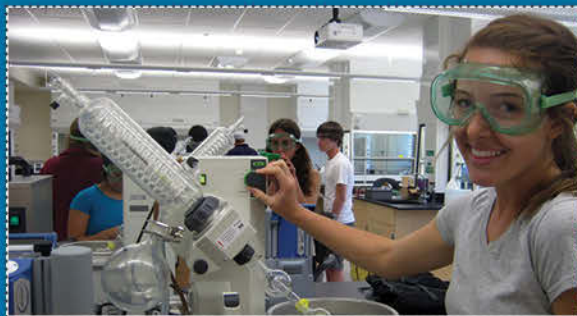
On Earthwatch Expeditions, teachers and students of all disciplines and grade levels join environmental projects alongside leading scientists around the world. Whether researching the impacts of climate change, conservation efforts, or the preservation of wildlife, teachers and students come back to the classroom inspired by their experiences with Earthwatch. They return with invaluable first-hand learning, a strong sense of community, and an understanding of global environmental challenges.

In 2013, Earthwatch sponsored more than 100 teacher/student fellowships in 10 countries around the world leading to real-life learning in the classroom and the creation of our future leaders. On the next page are a few highlights from an exciting and productive year in educational engagement at Earthwatch.



INSPIRING STUDENTS TO BECOME TEACHERS

When Tim Bonebrake was a sophomore at the Los Angeles Zoo Magnet high school, his biology teacher, and Earthwatch alum, guided him to his first opportunity as a citizen scientist. Inspired by Earthwatch, Tim went on to become a professor of Earth Sciences at the University of Hong Kong where he continues to teach his own students the central importance of field research and preservation.



FROM EARTHWATCH STUDENT FELLOW TO FUTURE SCIENTIST

Amber Fessler was a student fellow on Earthwatch's Caterpillars and Climate Change expedition. During her fieldwork, Amber witnessed, first-hand, the application of theories and principles she learned in the classroom to real, meaningful scientific discovery in the field. Inspired by her experience with Earthwatch, Amber is currently pursuing her degree in biomedical engineering at Tulane University.



SCIENTIFIC INQUIRY IN OUR CLASSROOMS

While studying the effects of the Deepwater Horizon oil spill on the common loon in the Gulf of Mexico, Linda Liang learned the importance of hypotheses, experimentation, and data collection. This learning inspired her to teach the value of scientific inquiry and conservation efforts to her students at Marymount School in New York City.



BUILDING OUR FUTURE ENVIRONMENTALLY-CONSCIOUS CITIZENS

After returning from Spotting Songbirds in the Rockies, Hawes Elementary School teacher, Silvia Acosta began a composting program for her first grade class. Her Ridgewood, New Jersey students learned, first-hand, the value of conservation efforts in their school community when the compost was used to support a butterfly garden. A garden rich with real-life interactions, and the opportunity for her students to experience biodiversity.



CLASSROOM LESSONS FROM THE FIELD

On the Conserving the Pantanal expedition, Skyline High School teacher, Gretel von Barga helped collect data on conservation in the world's largest wetland. This resulted in a heightened passion for teaching. In the field, she wrote new biology lessons from her first-hand experiences and inspired her Sammamish, Washington class with real stories of caiman and jaguar preservation efforts.



CORPORATE ENGAGEMENT

LEVERAGING OUR BUSINESSES

Corporate employees of all levels join Earthwatch Expeditions to conduct valuable research, team-build, and invest in local and global communities. Alongside leading scientists in the field, corporate partners become involved in relevant scientific research which helps implement internal conservation, preservation, and environmental sustainability efforts in their companies or communities.

In 2013, Earthwatch hosted almost 1,000 corporate fellows on expeditions across the globe funded through their employer. As a result, these employees developed new awareness, widened their company's environmental commitment, and contributed to crucial scientific research. On the next page are a few highlights from an exciting and productive year in corporate engagement at Earthwatch.



COMMITTED TO REDUCING OPERATIONAL COSTS

HSBC's Hong Kong office saved approximately 100 trees or 835,081 sheets of paper through the creation of an online customer service program. Designed through Earthwatch's Sustainability Leadership Program, the online service initiative resulted in a \$787,980 reduction in operational costs, which continues to bring inspirational change to HSBC's business, customers, and the environment.



PARTNERSHIP BETWEEN CORPORATIONS AND LOCAL COMMUNITIES

EY sent 30 volunteers to Brazil and Costa Rica. As a result, EY-Earthwatch volunteers conducted field research and leveraged their business skills to assist local cooperatives. In Costa Rica, the Ambassadors worked with a 2,600 member coffee farming cooperative, collecting data alongside Earthwatch scientists to help understand the practices that lead to more sustainable production of coffee.



BUSINESS PRACTICES IN ACTION

Shell employees created Project Better World to strengthen their core business values. With Earthwatch, the company has engaged Shell employees from almost 50 countries on 50 projects, which has led to more than 30,000 hours of crucial data collection and conservation work around the world.



PROTECTING OUR PRECIOUS RESOURCES

Mitsubishi funds research to study coral reefs in the Seychelles. This has led to conservation management that protects this fragile ecosystem while investing in emerging scientists in the community.



EMBEDDING SUSTAINABILITY IN BUSINESS

Alcoa sends employees on expeditions around the world through the Alcoa Sustainability Fellowship to study climate change and build leadership skills to embed sustainability within their company.



MORE THAN 1 MILLION TREES PLANTED WORLDWIDE

UPS partnered with Earthwatch on its Climate Ambassador's Programme to develop environmental leadership skills, and work toward the company's goal of planting more than 1 million trees around the world. This protects endangered species, and inspired UPS employees to contribute to forestry-focused environmental efforts worldwide.

EARTHWATCH SCIENTISTS

DR. ALISON LESLIE



TV personality and champion of terrestrial species like elephants, rhinos, and large cats, Dr. Alison Leslie has been working tirelessly with Earthwatch to protect wildlife in Africa. Nearly decimated by illegal hunting, most species at Majete Wildlife Reserve in Malawi had been eliminated. Due to Leslie's work at the reserve along with the support of Earthwatch volunteers, 2,550 animals have been reintroduced to the reserve including medium-sized carnivores such as the caracal, serval, and civet.

In 2013, Earthwatch volunteers gathered accurate wildlife population counts that otherwise would have been impossible, including counts of the rare and endangered black rhino. Further, volunteers using digital camera traps, confirmed mother Shire had given birth to two healthy lion cubs and mother Lady Anna had two fat leopard pups, evidence that with collaboration and dedication life at the reserve is thriving again.

DR. DEMIAN CHAPMAN

Internationally recognized expert on sharks, pioneer on shark reproduction, and defender of sharks around the world, Dr. Demian Chapman has been a fundamental voice in shark advocacy, protection, and the monitoring and enforcement of restrictions on the global shark fin trade. His discovery that female sharks can reproduce without sex produced a splash on over 1,100 media outlets worldwide and, with the support of Earthwatch volunteers, restrictions on the shark fin trade have been extended to include the great hammerhead, oceanic white tip, and other previously unprotected species.

In 2013, Chapman and Earthwatch volunteers used baited underwater video to prove the effectiveness of marine reserves in stabilizing shark populations. Further, for the first time ever, Earthwatch teen fellows joined the expedition in Belize, inspiring the next generation of marine scientists and shark defenders.



DR. RICHARD BODMER



Explorer of uncharted waters deep within the heart of the Amazon, Dr. Richard Bodmer understands the human equation in conservation efforts. A pioneer of working together with local communities to help preserve the planet's fragile ecosystems, Bodmer understands community and environmental health go hand in hand.

In 2013, Earthwatch volunteers were instrumental in shaping international environmental policy. By monitoring the effects of climate change on wildlife in Pacaya-Samiria National Reserve, the efforts of Earthwatch influenced the Peruvian government to develop an Amazon Climate Change Strategy. Further, Earthwatch conservation efforts helped protect the rare and mystical pink river dolphin. Local legend has it that these elusive creatures are shape-shifters—a fitting detail as Bodmer and Earthwatch face the complexity of shifting opinions to help shape the future of the planet's natural resources.

EARTHWATCH has over 100 **LEADING SCIENTISTS** working on crucial **RESEARCH PROJECTS** around the globe. Here are just a few profiles and highlights of our world-renowned scientists in 2013.

★ “Earthwatch volunteers are absolutely fantastic and we certainly could not have gotten the management efforts needed at Majete off the ground without them.”

Dr. Alison Leslie

★ “All of our Earthwatch volunteers are among the very best ambassadors for sharks, and have made a great contribution to saving them just by coming on the expedition.”

Dr. Demian Chapman

★ “The conservation based research efforts of Earthwatch volunteers have resulted in significant advances in our understanding of the impacts of recent climate change on wildlife and indigenous people of the Peruvian Amazon.”

Dr. Richard Bodmer

MEET EARTHWATCH'S NEW
CHIEF SCIENCE OFFICER



DR. WILLIAM R. MOOMAW

A lead author for the
Intergovernmental Panel
on Climate Change, which
shared the Nobel Peace
Prize in 2007

A LETTER FROM DR. MOOMAW

PLANETARY BOUNDARIES

It is clear to everyone that both the local and global environment are under stress. Human activity has expanded into every part of the planet to such an extent that the current era has been dubbed the Anthropocene or human dominated era. Scientists have identified a set of Planetary Boundaries that we must respect in order to continue to enjoy the many essential benefits that ecosystems and other species provide. Earthwatch scientists study five of the nine systems where planetary boundaries have been identified as essential to the operation of planet earth. These include climate, biodiversity, oceans, and land and water ecosystems.

To better understand how humans affect these systems, Earthwatch scientists and participants also study past civilizations through our archeology program. The systems are all interconnected. For example, a changed climate affects biodiversity, oceans, and fresh water. Land use patterns alter climate, water, and biodiversity. It is essential to understand these interactions and to try to prevent changes in systems that exceed the boundaries. Where the boundaries have already been exceeded as with biodiversity loss and climate change, the goal is to bring these systems back within safe boundaries. Joining scientists in the field to study the current state of any of these systems can help to identify where effective interventions can be made to reduce human caused damage, and to restore ecosystems.

Dr. William C. Moomaw
CHIEF SCIENCE OFFICER
EARTHWATCH INSTITUTE

ACCOLADES

- Professor Emeritus of International Environmental Policy at the Fletcher School of Law and Diplomacy, Tufts University.
- Founding director of the Center for International Environment and Resource Policy at Fletcher from 1992-2013.
- Founder of the Tufts Climate Initiative that led to major reductions in greenhouse gases at Tufts University.
- Graduate of Williams College, where he was also a professor of chemistry and director of the Center for Environmental Studies.
- Physical chemist with a PhD from Massachusetts Institute of Technology (MIT).
- Coordinating lead author of two IPCC reports in 2001 and 2012, and a lead author of three additional reports in 1995, 2005 and 2007. The work of the IPCC was recognized with the 2007 Nobel Peace Prize.
- A lead author for the Millennium Ecosystem Assessment that won the Zayed Environmental Prize in 2005, and was a co-author of the Integrated Nitrogen Assessment Committee of the US Environmental Protection Agency Science Advisory Board.
- First director of the Climate Energy and Pollution program at the World Resources Institute in 1988-89.
- Received teaching awards at both Williams and The Fletcher School at Tufts.
- Honorary doctorate from the University of Belgrade for his work on sustainable development.
- Received a Bicentennial Medal from Williams College in 2013 for bringing together science and policy to address climate change.
- AAAS Congressional Science Fellow where he worked on legislation that banned CFCs in spray cans in the United States, and on energy policy and National Forest policy.
- Currently serves on the Board of Directors of The Climate Group, The Nature Conservancy of Massachusetts, Woods Hole Research Center, Center for Ecological Technologies and the Consensus Building Institute, and is on the National Advisory Board of the Union of Concerned Scientists.

LETTER FROM THE CFO

I am pleased to report that in FY 2013, Earthwatch Institute, USA, with continued support from our volunteers, donors, and partners increased its revenues by 6.6% to \$9.1m. Focus on operational improvements helped us achieve a 5% reduction in operating expenses to \$8.6m resulting in an increase in net operating assets of \$0.3m. Total net assets increased by \$0.4m to just over \$5m.

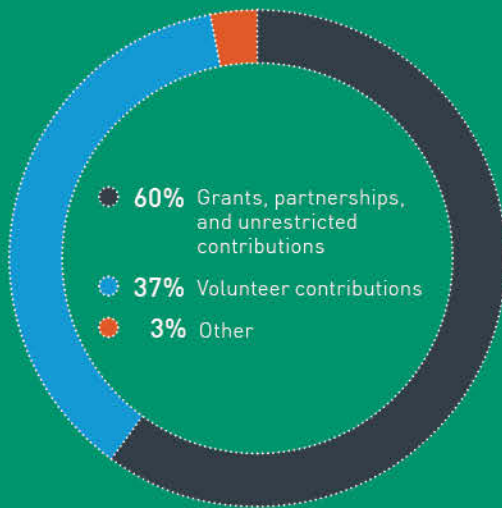
In the past year we have taken important strides towards improving the cost effectiveness of our program delivery by streamlining our operations and in the process achieving significant reductions in program, development, and administrative expenses while maintaining our dedication to impactful science and participant experience.

With the continued commitment from our donors, staff, and trustees, we are confident in meeting the growing demand for our services and continuing to deliver the high standards our partners and donors have come to expect of us.

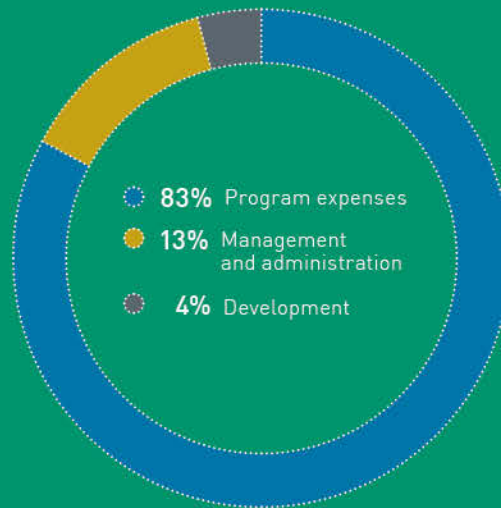


Arcott Mahesh
CHIEF FINANCIAL OFFICER
EARTHWATCH INSTITUTE

INCOMING
RESOURCES



RESOURCES
EXPENDED



Total Funds for Earthwatch U.S.	FY 2013 (US\$)	FY 2012 (US\$)
INCOMING RESOURCES	9,094,242	8,534,385
RESOURCES EXPENDED	8,645,203	9,099,460
<i>Program Expenses</i>	7,114,082	7,371,358
<i>Management & Administration</i>	1,147,451	1,325,872
<i>Development</i>	383,670	402,230
NET (OUTGOING)/ INCOMING RESOURCES	449,039	-565,075
END OF YEAR NET ASSETS	5,011,036	4,561,997

These figures refer to Earthwatch Institute (U.S.), a nonprofit organization under section 501(c)3 of the Internal Revenue Code.

TAX ID #
23-7168440



OUR CONTRIBUTORS

The following individuals, corporations, and foundations offered invaluable support to Earthwatch in fiscal year 2013. We thank them, and all our generous donors for their commitment and service.

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“I want to thank the parents, guardians, businesses and students who worked hard to finance our expedition. I know the financial cost can be great, but I have no doubt that the knowledge gained and conservation efforts funded are well worth the expense.”

Gretel von Barga

FINANCIAL CONTRIBUTORS (OF \$500 OR MORE)

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VOLUNTEER HALL OF FAME

Earthwatch would like to recognize the dedicated participants who have joined us in the field for 10 or more expeditions. We thank them for their contribution to scientific research and their consistent support of the Earthwatch mission.

50 PLUS EXPEDITIONS

Sandra Breil
Eugene Rowe
Robert Schilling
Warren Stortroen

25 PLUS EXPEDITIONS

Irene Adam
Linda Aronoff
George Benson
Sylvia Campbell
Monique Cleland
Kathleen Evans
Bruce Feay
Mary Feay
William Halliday
Louise Harrell
Hal Hobercht

Reynotta Hobercht
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John Walker
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Michael Crisafulli
Carmen De Lemos-
Chiarandini PhD
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Constance Hastert
Alan Hickenbottom
Diane Johns
John Keller
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Claire Nelson
Carl Schweser
Ann Tompkins
Orlin Trapp
Larry Vereen

15 PLUS EXPEDITIONS

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Marjorie Ariano
Cornelius Barton
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Shirley Batdorf

William Bauer MD
Karl Becker
David Bedell
Donna Bedell
Bruce Belcher
Julia Bernheim
David Brooks
Helen Callbeck
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Virginia Church
Raymond Cleeland
Dianne Collette
James Concannon
Karen Crisafulli
Lynn D'Addesio
Kraus
Ronald Daszenski
Lyman Davenport
Michael Deville
Kim Dieter
John Douglas

★ “Once I got involved with Earthwatch, I no longer wanted to just look at things. I wanted to do them.”

Warren Stortroen

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135,000 hours of research by Earthwatch volunteers and scientists leading to habitat support, ecosystem enhancement, and the collection of crucial scientific data.

80 scholarly research articles published by Earthwatch scientists in rigorous, peer-reviewed publications.

50 global environmental policies influenced by Earthwatch research and scientists.



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