

Seacology

Saving the World, One Island at a Time

Volume 6, Number 1

Spring Edition April 2004

Manado Tua, Indonesia EcoReef Installation Complete!



Above: A Manado Tua villager assembles an EcoReef module (photo credit: Mark Erdmann). Below right: Volunteer divers stake EcoReef units into position (photo credit: Arnaz Mehta).

Manado Tua Island is a towering extinct volcano fringed with picturesque reef drop-offs and capped with a rainforest at its summit. The island's 3,200 inhabitants form a very tightly-knit community of farmers and fishermen who cling tenaciously to their Sangir cultural traditions. Large sections of Manado Tua's coral reef have been reduced to rubble fields due to blast fishing activities that took place over a decade ago.

Seacology has supported the installation of EcoReef modules, snowflake-shaped ceramic modules designed to mimic branching corals which provide shelter to fish and a surface for larval corals to build a new reef. In exchange, villagers are expanding their current "no-take" reef zones to include five acres of reef containing the EcoReef modules.

Over the course of three weeks of mostly heavy seas and bad weather, villagers from Manado Tua worked with local dive operators and representatives from Indonesia's Natural Resources Management Program to transport, assemble and install 620 EcoReef modules. The final units were installed in early January.

Many of the volunteer divers were astonished to see that the units installed three weeks prior were already sheltering a large number of young herbivorous fishes, who were busily grazing algae off the modules.

IN THIS ISSUE:

New Island Projects

Letter from the Chairman

Seacology Travels to the Maldives and Sri Lanka

Report from Yap

Malagasy Conservationist Awarded 2003 Seacology Prize

Seacology's Donors

Project updates: Indonesia, Thailand and Papua New Guinea

Seacology Receives Four Star Rating from Charity Navigator!





Seacology, which last year received top ratings from America's premier independent charity evaluator (<http://www.charitynavigator.org>), began in response to a simple question: how can island peoples be spared from having to choose between their children and their environment? From its inception, Seacology has focused on protecting indigenous cultures and island habitat, a mission reflected in its name, coined by Seacology cofounder Bill Marré.

In 1992 we had finished helping Samoan villagers in Falealupo and Tafua save their respective rainforests by building needed schools. Word spread, and many other island villages approached us with pleas for help. Bill Marré, a business consultant and executive coach, came up with an interesting proposal: why not create a new non-

profit organization to carry out this work? Using his own funds and initiative, Bill had Seacology incorporated, and covered all administrative costs of the newly-founded organization for the first three years. He and his assistant Rita DeSpain were indefatigable in forwarding Seacology's conservation agenda. Lectures to schools and university campuses, visits to island nations, articles in local and national media, implementation of the Seacology Prize, and a variety of island projects were all carried out under Bill's aegis. Four years later, the administration of Seacology moved to Falealupo donor Ken Murdock's office, and then in 1999 to its present offices in Berkeley, California.

Bill Marré's contributions were crucial in Seacology's early years. The name of the organization, our 501(c)3 status, and Seacology's culture of doing a lot of good while having a little fun all came from Bill Marré. Last month, after 12 years of distinguished service on Seacology's board of trustees, Bill Marré was chosen as the first member of the volunteer Chairman's Advisory Council.

You, like Bill Marré, and thousands of other individuals, have decided to join hands with indigenous islanders throughout the world. Because of your generosity, island villages no longer have to choose between their rainforests and a needed school, or between protecting their spectacular coral reefs and building a modest medical clinic. Seacology provides funds for needed community improvements in return for village covenants to protect precious island environments. Over 70 villages have benefited from this pioneering effort in global philanthropy, and over 40,000 acres of rainforests and other terrestrial habitats and 830,000 acres of coral reefs and other marine habitats have been saved by this innovative approach. Many thanks to Bill Marré, and to each of you, for helping to save the world, one island at a time.

Paul Alan Cox, Ph. D.
Chairman

Seacology Project Update: Thailand



Seacology is assisting the Thai environmental organization Yadfon in its efforts to preserve mangrove and seagrass habitat in Trang Province. Seagrass beds on uninhabited Muk and Libong Islands are habitat for the only remaining population of Thailand's endangered dugongs. The communities of neighboring Lao-Lam and Ko Kah Islands are working with Yadfon on a series of mangrove and seagrass bed preservation projects. At left, community members from Ko Kah Island work on a boardwalk through the mangrove forest.



Board of Trustees

Donald Arntz
Larry Barels
Paul Cox, Ph.D., Chairman
Graham Farrar
Paul Felton, Treasurer
Scott Halsted
Douglas Herst
Suzanna Jamieson
Masayuki Kishimoto
Cathy Klema
Michael Lindheim
Ken Murdock, President
Charles Murphy III
Matsuno Kuhara Patrick
Peter Pistor
Shari Sant Plummer, Vice President
Gordon Radley
James Sandler
Michael Staffieri
Sandie Tillotson, Vice President
Jake Walker
Herb West
Marsha Garces Williams

Scientific Advisory Board

Paul Cox, Ph.D.
Jared Diamond, Ph.D.
Sylvia Earle, Ph.D.
Thomas Elmquist, Ph.D.
Robert Jansen, Ph.D.
John McCosker, Ph.D.
John C. Ogden, Ph.D.
Elizabeth Pierson, Ph.D.
Peter H. Raven, Ph.D.
William E. Rainy, Ph.D.
E.O. Wilson, Ph.D.

Island Advisory Board

Demetrio Amaral - East Timor
Lino Briguglio - Malta
Pisit Charnsnoh - Thailand
Charles Chieng - Yap
Rili Djohani - Indonesia
Anwar Fazal - Penang, Malaysia
Jeremy Forbes - Grand Cayman
Janet Gibson - Belize
Noah Idechong - Palau
Moelagi Jackson - Samoa
Jacqui Katona - Australia
Takashi "Tachi" Kiuchi - Japan
Willy Kostka - Pohnpei
Adrian Lasimbang - Borneo, Malaysia
Vilia Lawrence - Papua New Guinea
Geoffrey Lean - England
Teresa Leyens - Cape Verde
Susan Mahon - Barbados
Atherton Martin - Dominica
M.C. Mehta - India
Meity Mongdong - Indonesia
Nadra Nathai-Gyan - Trinidad
Fineasi Nau - Tonga
Madison Nena - Kosrae
Henrique Pinto da Costa - Sao Tome & Principe
Nat Quansah - Madagascar
Raimundo Quintal - Madeira
Jose Angel Sanchez - Mexico
Ragnhildur Sigurdardottir - Iceland
Andrew Simmons - St. Vincent & the Grenadines
Mwanakhamis Soud - Zanzibar
Victoria Tauli-Corpuz - The Philippines
Allan Tuara - Cook Islands
Alvaro Umana - Costa Rica
Jorge Varela - Honduras
Saula Vodonaivalu - Fiji
Anuradha Wickramasinghe - Sri Lanka

Seacology Board of Directors Approves New Island Projects

The following projects were approved by Seacology's Board of Directors at their November 17, 2003 meeting:

China: Protection of the highly endangered Hainan Gibbon in exchange for scholarships for the children of four villages, Hainan Island. In exchange for the villagers' agreement to forgo non-sustainable exploitation of the reserve where the last 19 gibbons live, Seacology will underwrite the cost of scholarships for all 200 primary school-age children in the four villages.*

Fiji: Construction of a community center in exchange for the establishment of a forest and marine reserve at Dakuniba Village, Vanua Levu Island. Dakuniba Village has agreed to preserve 763 acres of pristine rainforest for a minimum of 20 years, and establish a 24,711-acre marine no-take reserve for a minimum of ten years. In exchange for this sacrifice, Seacology will construct a much-needed community center.

Fiji: Construction of a kindergarten and dispensary in exchange for a 400-acre forest preserve, Nasigasiga Village, Vanua Levu Island. In June 2003, a group from Seacology visited the village to officially open a new water tank and delivery system Seacology funded in exchange for the establishment of a 332-acre forest reserve. Nasigasiga is willing to set aside another 400 acres of pristine forest for a period of 20 years in exchange for a much-needed kindergarten and medical dispensary.

Fiji: Electricity for the villages of Veivatuloa, Lobau and Wailoaloa, Viti Levu Island, in exchange for the establishment of a 1,500-acre forest preserve and 4,942-acre marine reserve. These remote villages were recently approached by a logging company that offered the funding necessary to connect the villages to Viti Levu's existing power grid in exchange for logging the area's pristine 1,500-acre rainforest. The villages have agreed to decline this offer and establish both a forest reserve and marine reserve in exchange for Seacology providing the funds necessary to connect the three villages to the island's power grid.

Indonesia: Village-based fisheries management program in Wakatobi National Park, Southeast Sulawesi. Wakatobi Marine National Park covers a vast, remote area of 3.5 million acres and is one of Indonesia's most important and largest marine protected areas. Seacology is providing shallow-wa-

ter Fish Aggregating Devices, ice making facilities and other equipment to the Bajo fishing village of Sampela on Kaledupa Island in support of a pelagic fisheries cooperative to reduce dependency on coral reef resources.*

Palau: Demarcation, training and educational materials for the Ngardmau Marine and Mangrove Conservation Area. Seacology will assist the Palau Conservation Society with the official establishment of this 618-acre marine reserve by providing equipment for demarcation buoys, as well as educational materials regarding the reserve for the local community.

Papua New Guinea: Construction of three community resource centers in support of rainforest protection at Mt. Bosavi. Community members in the vast Mt. Bosavi region have committed to rejecting large-scale logging proposals, and have agreed to set aside five Wildlife Management Ar-

reas totaling several hundred thousand acres. In exchange for this sacrifice, Seacology is providing three community resource centers and supplies for alternative income-generating activities. For more information regarding this project, please see page seven of this newsletter.*

Vietnam: Protection of the Golden-Headed (Cat Ba) Langur, Cat Ba Island. The Cat Ba Langur is one of the world's most endangered primates. Since Seacology started funding a langur-guarding program in November 2002, there has been a 20 percent increase in the Cat Ba Langur population. Seacology is providing the Zoological Society of the Conservation of Species and Populations with a fast boat to enhance the guardians' ability to protect the langurs.*

**Support for asterisked projects is generously provided by the Nu Skin Enterprises Force for Good Foundation.*



A Bajo village within Wakatobi Marine National Park in Southeast Sulawesi, Indonesia. The Bajo were traditionally a seafaring people (hence their popular name, "Sea Gypsies") who, though relatively small in number, have a significant impact on coral reefs due to their traditionally intense dependence on reef resources. Seacology is assisting Bajo villagers with an alternative fishing program to decrease this dependence on reef resources.



Charity Navigator is America's premier independent charity evaluator. They help charitable givers make intelligent giving decisions by providing in-depth, objective ratings and analysis of the financial health of America's largest charities. Charity Navigator awarded Seacology four out of a possible four stars. In earning Charity Navigator's highest four star rating, Seacology has demonstrated exceptional financial health, outperforming most of its peers in its efforts to manage and grow its finances in the most fiscally responsible way possible. Please visit www.charitynavigator.com and enter "Seacology" in the "Search by Keyword" box on the left hand side of your computer screen.

Seacology Travels to Sri Lanka...

Sri Lanka, an island nation off the southeast coast of India, has one of the greatest rates of mangrove species diversity in the world. Mangroves serve as breeding grounds for countless fish and mitigate damage caused by natural catastrophes such as hurricanes. Nonetheless, in the last century alone, 50 percent of all the world's mangrove forests have been destroyed as a result of commercial development.

A Seacology expedition recently visited the Kiralakele Mangrove Resource Center, which was financed by a \$12,000 Seacology grant. Pictured right, 2001 Seacology Prize Recipient Anuradha Wickramasinghe and Executive Director Duane Silverstein examine the mangrove forest that surrounds this beautiful brick building, which contains a large meeting room, office and kitchen facilities. Here, every day over 60 students and a large number of fisher folk are being taught the importance of mangroves and methods to preserve the forests. Hundreds of thousands of mangrove seedlings have been planted as a result of programs organized in the Mangrove Center by the Small Fishers Federation of Lanka.

Photo credits this page: Teng Wei



With the support of the Nu Skin Enterprises Force for Good Foundation, Seacology also provided funds for a store adjacent to the Kiralakele Mangrove Center, where young women from the neighboring villages sell jams and juices from the *sonneratia* fruit of the mangrove trees. Below, a young woman makes a sale to a local resident. This provides a sustainable source of income and gives the villagers a financial incentive to keep the mangrove forest intact rather than selling it to a commercial shrimp farm business which would cut the trees down.

At left, a Kandyan (named after the Sri Lankan city of Kandy) dance group performs a traditional welcome dance for the Seacology delegation.



...and the Maldives

In October 2003 a Seacology expedition visited the Maldivian Islands in the Indian Ocean. Over eight years ago the government of the Maldives had the foresight to ban the catching of the highly endangered sea turtles that live in the Maldivian waters. Unfortunately the ban did not apply to the harvesting of sea turtle eggs.

A delegation from Seacology visited Kendhoo Island to negotiate a classic Seacology "win-win" trade off. The islanders agreed that in exchange for Seacology funding the construction of a preschool, Kendhoo Island would ban the harvesting of sea turtle eggs in perpetuity. The people of Kendhoo suggested that this would serve as a model throughout the nation. Construction of the preschool, which is being undertaken with the help of the Four Seasons Maldives, is already under way.

Below is a photo of a Maldives resident harvesting sea turtle eggs. At right, the school children of Kendhoo Island give a high five to Julie Mitchell and Wendy and Larry Barel of the Seacology delegation.

Photo credits this page: Patricia Lanza



Seacology Fellows Program

Seacology's critical work to preserve the environments and cultures of islands throughout the world depends on the generosity of our donors. The Seacology Fellows program was created to honor committed donors who contribute \$2,000 or more per year. For more information on the Fellows program please contact Executive Director Duane Silverstein (duane@seacology.org, Tel: 510-559-3505).

Seacology is pleased to honor the following Seacology Fellows:

John and Betty Ann Altman	Rickie Koide
Peter and Ginny Boyce	John and Wendy Lang
James Kimo Campbell	Doug McConnell and Kathleen Taft
Craig Chiappone	Emily Scott Pottruck
Phyllis Friedman	Verne and Marion Read
Gordon Firestein and Doris Lang	Neil Rolde
James and Dore Gabby	Guy and Jeanine Saperstein
John and Marcia Goldman	Dr. Gordon Schooley
Robert and Rosemary Heil	Dr. Wendell Smoot
Warren Hellman	Marilyn Staffieri
Wolcott Henry	Thomas Volpe
Michael Hofman and Janet Moyer	Anne Walton
Doug Jamieson	Dave and Mary Ward
Nate Kaufman and Lynn Franco	John Weeden
Suzanne Keith	Robert and Kathy Whitehead
Art Kern	Martin Zankel
Tamako Kishimoto	Neil Zussman
John and Janet Kister	

Yap's Tamilyog Stone Path and Forest Reserve Dedicated

Yap is one of four states that comprise the Federated States of Micronesia. It has a population of 11,200 with a total land area of 50 square miles, spread out over 100,000 square miles of ocean. Yap has managed to keep its traditional culture relatively intact, with stone money and long houses still in use throughout the island.

One of the most notable remnants of traditional Yapese culture, the ancient Tamilyog Stone Path connects the eastern and western sides of the island. The original trail was painstakingly created from hand-quarried stone. In recent years, much of the Tamilyog Stone Path had become overgrown and some sections were buried due to disuse and neglect. The Dalipebinau municipality agreed to set aside 75 acres of native forest adjacent to the path as a protected reserve. In exchange for this sacrifice, Seacology, in cooperation with the Yap Community Action Program (Yap CAP), provided funding for the restoration of the Tamilyog Stone Path.

Coinciding with Yap Day, on March 1, 2004 the restored Tamilyog Path and Yap's first-ever forest reserve were officially dedicated. Seacology Board Member Gordon Radley represented Seacology at the dedication.



The project was initiated by the Dalipebinau Community with assistance from Yap CAP and the U.S. Forest Service IPIF State and Private Forestry Program. The initial section of stone paved trail was reconstructed by students and their families. A second section through more rugged terrain was renovated by villagers with support from Seacology and the United States Park Service Historical Preservation Office.



Above: Yap CAP coordinator and Seacology Island Advisory Board member Charles Chieng in traditional Yapese dress at the dedication of the restored Tamilyog Stone Path. Left: Yap Institute of Natural Science Director Margie Falunruw in front of the new forest reserve. The Yap Institute has coordinated environmental protection efforts on Yap, and is responsible for legislation protecting the island's endangered fruit bats. (Photo credits: Gordon Radley.)

Malagasy Conservation Biologist Receives 2003 Seacology Prize



Seacology Chairman Dr. Paul Cox, 2003 Seacology Prize recipient Dr. Elizabeth Rabakonandrianina and Seacology President and Prize sponsor Ken Murdock at the November ceremony in San Diego.

Dr. Elizabeth Rabakonandrianina of Madagascar was awarded the 2003 Seacology Prize at a November 17 ceremony in San Diego, California. Dr. Rabakonandrianina was awarded the 2003 Seacology Prize for her outstanding efforts to protect Madagascar's "Orchid Mountain," Mt. Angavokely, home to over 120 rare and endangered orchid species.

Located 13 miles east of Antananarivo, the nation's capital, Mt. Angavokely is a former French Forest Station and has one of the last remaining intact tracts of high-altitude rainforest in all of Madagascar. Dr. Rabakonandrianina has taken on the mission of saving the Orchid Mountain for future generations. In 2001, she successfully negotiated with the Malagasy government a legal framework for protection and sustainable development of Mt. Angavokely and the surrounding communities. In conjunction with Seacology and the local nonprofit organization ARC VERT, the government is establishing a 927-acre reserve on Orchid Mountain.

The Seacology Prize is awarded annually to an outstanding indigenous island conservationist. The recipient is flown to the United States for a ceremony to receive the \$5,000 prize stipend. The Prize is underwritten by Seacology President Ken Murdock in honor of his mother, Lalovi Fish Murdock.

Seacology Wishes to Thank the Following Donors for Their Generosity in 2003:

Island Benefactors (\$50,000 and up):

Nu Skin Force for Good Foundation
David and Lucile Packard Foundation

Island Champions (\$20,000-\$49,999):

Arntz Family Foundation
Friedman Family Fund
Jamieson Foundation
Moore Family Foundation
Ken Murdock
Sandler Family Supporting Foundation
Windfall Foundation

Island Guardians (\$5,000-\$19,999):

Anonymous
Arkay Foundation
Larry and Wendy Barels
City Arts & Lectures, Inc.
Dr. and Mrs. Paul Cox
David and Susan Cumming
EarthAide
Erdmann Charitable Foundation
Graham Farrar
Paul and D.D. Felton
Firedoll Foundation
The Wallace Alexander Gerbode Foundation
Scott Halsted
Hellman Family Philanthropic Fund
Henry Foundation
Doug and Carolen Herst
Kern Fund

Island Guardians (continued)

Masayuki and Tamako Kishimoto
Cathy Klema
Richard Lemon
Michael Lindheim
Livingry Fund of the TIDES Foundation
Charles and Kathleen Murphy
Olympic Circle Sailing Club
Matsuno Kuhara Patrick
Shari Sant Plummer and Dan Plummer
Gordon Radley
Guy and Jeanine Saperstein
Sandie Tillotson
Mr. and Mrs. James Walker
Mr. and Mrs. Herbert West

Island Donors (\$1,000-\$4,999):

Anonymous
John and Betty Ann Altman
Peter and Ginny Boyce
James Kimo Campbell
Craig Chiappone
Laurence Colton and John McCoy
Gordon Firestein and Doris Lang
Paul Gabbert and Barbara Counter
James and Dore Gabby
Ted and Cissy Geballe
John and Marcia Goldman
Robert and Rosemary Heil
Michael Hofman and Janet Moyer
Huff School (Mountain View, CA) Fifth Graders
John Gray Recyclers
John Hunting
Nate Kaufman and Lynn Franco
Suzanne Keith

Island Donors (continued)

Kate Kelly and Tom Klein
Douglas and Liz Kinney
John and Janet Kister
Rickie Koide
The Lang Foundation
Tina Lee
Doug McConnell and Kathleen Taft
Penney Family Fund
Emily Scott Pottruck
Verne and Marion Read
Neil Rolde
Dr. Gordon Schooley
Mr. and Mrs. Edwin Seipp, Jr.
Duane Silverstein and Marcia Stewart
Dr. Wendell Smoot
Michael and Marilyn Staffieri
Mr. and Mrs. Cyrus B. Sweet
Thomas Volpe
Anne Walton
Aaron Wangenheim
Dave and Mary Ward
John Weeden
Robert and Kathy Whitehead
Martin Zankel
Neil Zussman

Corporate Sponsors:

Four Seasons Resort Maldives
Nu Skin Force for Good Foundation
San Francisco City Arts & Lectures
Jean Michel Cousteau Fiji Resort
Wells Fargo Bank, N.A.

Seacology Project Update: Mt. Bosavi, Papua New Guinea



Papua New Guinea's Mt. Bosavi.

The Mt. Bosavi Region in southern Papua New Guinea encompasses about 2,000,000 acres of virgin rainforest. The indigenous residents of the region's widely scattered 28 villages are highly dependent upon their environment. Lumber companies have made numerous proposals to log the region's vast rainforests. Kosuo Orogo Resource Holders Association (KORA) is a community-based organization initiated by Bosavi clan leaders to promote greater awareness of the negative impacts of industrial logging, and to encourage ecologically friendly livelihoods. As a result of KORA's influence, community members have committed to resisting large-scale logging proposals and have agreed to set aside five Wildlife Management Areas totaling several hundred thousand acres.

In exchange for this sacrifice, Seacology is providing three community resource centers and supplies for alternative income-generating activities. Permanent, solar-powered buildings with much-needed water tanks will serve as multipurpose resource centers. Seacology is also providing vanilla bean cuttings and butterfly farming equipment for ongoing alternative livelihood activities. Logistical assistance for this project is being provided by World Wildlife Fund-Kikori. The village of Musula recently began construction of the first community center.



2009 Hopkins Street
Berkeley, CA 94707 USA

NONPROFIT ORG.
US POSTAGE
PAID
BERKELEY CA
PERMIT #1324

Printed on 100 percent post-consumer waste recycled paper using soy-based inks.

Seacology is the world's premier nonprofit environmental organization with the sole and unique purpose of preserving the environments and cultures of islands throughout the globe. From Fiji in the South Pacific to Madagascar off the coast of Africa, from islands in the Arctic Circle to tropical islands of Southeast Asia, from Bali to Micronesia and from Polynesia to Iceland, Seacology launches projects to help preserve island environments and cultures.

Staff

Duane Silverstein
Executive Director

Emily Klokkevold
Administrative Assistant

Karen Peterson
Program Officer/Newsletter Editor

Lisa Rosenthal
Office Manager

Become a Seacology Donor

You can help Seacology protect the environments and cultures of islands throughout the world.

Yes! I would like to help save the world's islands with the following donation: _____

Enclosed is a check or money order

Charge my VISA or MC number: _____ exp. date: _____

Name: _____

Address: _____

City: _____ State: _____ Country: _____ Zip/Postal Code: _____

Telephone Number: _____ H ___ W ___ Email: _____

All donations are tax-deductible. Seacology works with a very small staff with no red tape or bureaucracy; a portion of your donation will go towards modest yet essential administrative expenses. If you would prefer 100 percent of your donation to go toward island projects, please check here:___

SEACOLOGY • 2009 HOPKINS STREET • BERKELEY, CA 94707 • USA