

Annual Report to Members | 2011







The cover of this report captures a rare moment with a Spoon-billed Sandpiper and his chick on the arctic tundra. Spoon-billed Sandpipers are one of the most distinctive shorebirds on the planet—yet most people have never seen or heard of them. Fewer than 200 remain in the world. Their survival depends on conditions on their nesting grounds in Russia, migratory stopover routes in Kamchatka, China, and Korea, and wintering areas in Vietnam, Thailand, Myanmar, and Bangladesh.

Like Spoon-billed Sandpipers, tens of thousands of birds across the world are ambassadors for global conservation. It takes the will of nations to save them. Yet all too often, so little is known about them—and so little conveyed to

the public and policy makers—that the potential for conservation goes unrealized.

Recognizing the need for a sea change, the Cornell Lab of Ornithology works at all levels to increase the understanding

and protection of birds and other wildlife. We advance scientific knowledge, work with partners to identify the most important steps needed to safeguard ecosystems, and empower people of all ages to learn and conserve.

Scientists, educators, and students throughout the Cornell Lab of Ornithology are doing this by reaching across the globe. This year, birders around the world entered data into eBird, lighting up the global map with new sightings every passing hour. Our autonomous recording units returned acoustic data from locations as far-flung as Gabon, Ireland, Alaska, and the Gulf of Mexico—helping us keep the pulse of endangered forest elephants, whales, and birds by monitoring their sounds. From Australia, the Arctic, and Argentina to New Guinea and Siberia, our researchers used the latest technologies, including remote video cams, DNA analyses, migration tracking devices, and supercomputing techniques to understand nature's complexity and reveal new clues about how to sustain the diversity of life. We're collaborating with teachers, scientists, and students internationally as well—through K–12 curricula, undergraduate and graduate research projects around the world, and workshops to build conservation capacity in Latin American countries. Our websites reach more than 6 million people in 187 countries, providing bird information, sounds, and videos from our Macaulay Library, and powerful multimedia productions that shed light on pressing wildlife conservation issues.

How does this all add up? Please browse the pages of this report to find out how we work with partners to help threatened species such as Golden-winged Warblers; aid public agencies in prioritizing conservation across habitats through the State of the Birds report; advise the energy industry about how to minimize harm to wildlife; and galvanize international conservation efforts by bringing attention to the needs of Spoon-billed Sandpipers and other birds. Take a behind-the-scenes peek at a soon-tobe launched citizen-science project called YardMap, and find out how we're developing sophisticated techniques combining sound, radar, and observational data to forecast the migrations of birds.

As I look to the exciting work ahead, I am reminded that we couldn't do any of this without you and our many partners, collaborators, and supporters. Thank you for enabling us to continue building the most powerful tools for science and conservation, advancing knowledge, and amplifying conservation across the world.

Sincerely.

JOHN W. FITZPATRICK, LOUIS AGASSIZ FUERTES DIRECTOR



Cover: One of the world's last remaining Spoon-billed Sandpipers with his chick, photographed in July 2011 on the coastal tundra of the Russian Far East. Inside cover: A male Spoon-billed Sandpiper just after arriving on the breeding grounds. Above: A Spoon-billed Sandpiper nest with eggs. As part of an international expedition to conserve this critically endangered species, the Cornell Lab of Ornithology's multimedia producer, Gerrit Vyn, captured these photos and the first high-definition footage of Spoon-billed Sandpipers on their breeding grounds. The Cornell Lab is using scientific expertise. combined with powerful multimedia, to galvanize international conservation efforts.

## A Message from John Fitzpatrick



This year, we celebrate 25 years of Project FeederWatch and the transformative power of citizen science. Participants now contribute citizen-science data to the Cornell Lab from nearly every country, tracking the pulse of nature through the movements and abundance of birds.

With leading-edge tools to display data in real time, we engage hundreds of thousands of people in the process of science and use advanced computing to investigate the most challenging environmental questions.

#### **One Planet, 10,000 Bird Species**

In a landmark year for eBird, participants logged more than 1.3 million observation hours in the field, bringing the worldwide total to 9,256 bird species reported. Data from 107,000 locations in the United



Baltimore Oriole summer distribution



Winter Distribution in Costa Rica

are transforming what it means to go birding," said project co-leader Chris Wood. "Even more amazing is how the collective efforts of thousands of birders are transforming science and conservation."

With worldwide reports, eBird maps now show the seasonal movements of birds across their ranges. Above, reports of Baltimore Orioles (purple dots) during the breeding season in the United States and Canada (top), and during winter in Costa Rica (bottom).

States were the basis for the 2011 State of the Birds report, highlighting the conservation value of public lands.

Meanwhile, in just the first year of global data entry, eBirders are lighting up maps of bird species distributions across hemispheres through time.

"It's amazing to witness how eBirders



#### Linking Yards Into Landscapes for Birds

The Cornell Lab is beta-testing YardMap, a new online citizenscience project funded by the National Science Foundation (NSF) to help people see the impact of their actions on habitat for birds. Participants zoom in on satellite images to construct maps of their own yard, including features

such as lawns, native plants, or feeders. Scientists and participants alike can see how yards connect with one another into larger landscapes supporting birds and other wildlife. "YardMap is a collaborative project that combines the power of social networks with citizen science," said Janis Dickinson, the Lab's director

> of Citizen Science. "It will help us understand how best to use these tools to aid people in enhancing conservation practices and outcomes—at home and across the continent."



This year, citizen-science participants sent us their bird observations from **170 countries**.

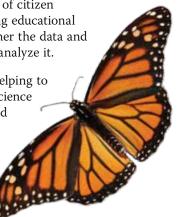


Students in Puerto Rico participate in Celebrate Urban Birds, combining bird watching, science, and the arts.

#### **Citizen Science, Transcendent**

Stars, butterflies, frogs, and fossils...citizenscience projects have proliferated into hundreds of opportunities around the world for people to connect with nature and contribute to science. The Cornell Lab's Rick Bonney is a founding father of citizen science as it's practiced today—fostering educational outcomes for the participants who gather the data and research results for the scientists who analyze it.

With NSF funding, Bonney's team is helping to advance the emerging field of citizen science by establishing best practices, tools, and networks for professionals to use and build upon. Now in the works: a newly improved Citizen Science Central website for practitioners—and tools to measure the impact of public participation in science.



Project FeederWatch data show that cold temperatures in the Northeast have a greater effect on limiting the distributions of birds than lack of food. Analyses also suggest that distributions are affected by how well a species adapts to urbanization, a factor to be considered in studies of climate change.

### Ambassadors FOR THE BIRDS

After eBird went global last year, we were astonished by the network of volunteers that quickly formed to get eBird off the ground in their own countries.

Tommy Pedersen from the United Arab Emirates submitted 22,516 checklists from personal and historical records. He also reviews incoming data.

The United Arab Emirates now has one of the most impressive data sets of any country, with complete charts and maps for more than 530 species.



"I am especially impressed with the ease of use and presentation of data in eBird. This is truly a new era for all birders,

as well as an amazing database for scientists and amateurs alike."

— Tommy Pedersen, Dubai, United Arab Emirates



# Research ACROSS THE WORLD

Science is at the heart of the Cornell Lab of Ornithology. From curiosity to discovery to insight, scientific study deepens our appreciation of nature and reveals the actions needed to protect our planet and the diversity of life.



A new book by the Cornell Lab's André Dhondt examines how competition influences the traits of bird species and ecological communities.

## What's behind the intriguing behaviors of birds and their diversity?

Scientists at the Cornell Lab use DNA analyses, video techniques, tracking devices, and ingenuity to reveal more than the eye can see.

ALL IN THE FAMILY

Woodpeckers help raise

own? A new study found

gain parenting skills or benefits from an extended

helping to raise relatives,

young that aren't their

it's not because they

stay with family. By

they perpetuate the

family genes.

Why do Acorn



#### A HISTORY OF WARBLERS

Scientists at the Cornell Lab have generated the first complete evolutionary tree for the wood-warblers. The results have spurred extensive changes to the classification and provided new insights on questions

> such as why there are so many warbler species, and how some species became migratory.

#### SWALLOWS OF THE AMERICAS

Scientists across the hemisphere collaborate on studies of nine species of swallows in Golondrinas de las Americas, a project funded by NSF.

> Photos left to right, top to bottom: Magnificent Riflebird. Ed Scholes and team in New Guinea. Acorn Woodpeckers. Song Sparrow. Tree Swallow. Clark's Nutcracker. Taza Schaming with radio-tracking equipment. Wood Thrush.

## How do human activities affect birds and other wildlife?

Researchers at the Cornell Lab study how environmental stressors such as pollution, energy development, and other activities affect wildlife and ecosystem health.

#### ALTERED SONG



PCBs are chemicals known to cause neurological damage and mimic hormones. Graduate student Sara DeLeon has found preliminary results suggesting

that PCBs have affected birds' ability to sing along a contaminated area of New York's Hudson River.

#### A TOUGH NUT TO CRACK

Graduate student Taza Schaming uses radio tracking to follow Clark's Nutcrackers in the Greater Yellowstone Ecosystem. She is documenting how nutcrackers are affected by declines in whitebark pines. Her goal: to

identify management actions that will improve habitats.







## Cornell Lab researchers study wildlife in **28 countries** from all **7 continents**.



Spectrograms of nocturnal flight calls for five warbler species.

#### How can we reveal a new understanding of birds across landscapes?

Ornithologists are combining forces with statisticians and computer scientists, using high-performance computing techniques to understand large-scale patterns in nature. The results can help show how bird populations respond to land use, climate, and other environmental changes.

#### **MAPS IN MOTION**

With support from the National Science Foundation, Leon Levy Foundation, and Wolf Creek Foundation, new analyses of eBird data are generating unprecedented, animated maps showing the distributions of birds throughout the year. At right, a map based on eBird data showing the distribution of Wood Thrushes in summer.

#### **THE "WEATHER CHANNEL" FOR BIRDS** On a given night, can we predict what birds will

migrate, and when and where they'll go? The Cornell Lab and Oregon State University have received a \$2.2 million NSF grant to develop a system that will forecast bird migration in the United States. It will use weather data, radar, observations from eBird, and the nocturnal flight calls of birds to generate realtime estimates of migration.

# FROM THE SKY

Around the world, autonomous recording units from the Cornell Lab are listening for wildlife. With hundreds of thousands of hours of recordings, a major challenge is processing the data to quickly find and quantify the sounds of each species.

Now a two-year, \$1.25 million gift from the Kenneth L. Harder Trust will kick-start development of a new system that "trains" computers to look for the "voiceprints" of particular species, such as nocturnally migrating Wood Thrushes and Veeries.

This generous gift was made possible by the Harder family: Scott Harder (trustee), Karen (Tillman) Harder ('81), Liv ('11), and Donald. Kenneth Harder, Scott's uncle, was a lifelong birder.

"This acoustic monitoring project is essential to document human impacts on migratory bird and other animal populations," says Scott Harder.

"It's one of the most significant and exciting research gifts in the Lab's history," says Sean Scanlon, the Lab's senior director of Development and Philanthropy. "It's enabling the Lab to do what we do best: listen to the world and use what we learn to advance conservation."



# Conservation ACROSS THE WORLD

The Cornell Lab provides the best available scientific data to help government agencies, industries, and conservation organizations make decisions for wildlife protection.

> The Helmeted Woodpecker is one of the rarest and least known woodpeckers in the world. Cornell Lab scientist Martjan Lammertink moved to Argentina this year to help identify habitat restoration measures in logged forests.

#### Understand

#### A RARE FIND

The Black-capped Petrel is a critically endangered species. Fewer than 2,000 remain. With support from the U.S. Fish and Wildlife Service and the John D. and Catherine T. MacArthur Foundation, graduate student Jim Goetz and collaborators are gathering crucial conservation data on Hispaniola. This summer, for the first time, they observed and monitored the growth of a chick at the nest.

#### SOUND CONSERVATION

As demand rises for oil, gas, and wind energy, the Cornell Lab helps government agencies and industries identify where wildlife is at risk from



noise pollution, habitat alteration, and direct mortality. The Lab's Bioacoustics Research Program develops acoustic technologies to monitor and protect whales around the world.

#### A TALE OF TWO SPECIES

DNA analysis by undergraduate Nicholas Sly and collaborators confirmed that the Gray-crowned Palm-Tanager (top image at right) is Haiti's only endemic bird species, distinct from the more widespread Black-crowned Palm-Tanager (lower image at right). The finding underscores the need to protect reserves in a country where less than 2% of native forest remains.



Graduate student Yula Kapetanakos searches for Slenderbilled and White-rumped vultures in Cambodia. Once numbering in the millions, these species declined to near extinction after the drug diclofenac was used for livestock, poisoning vultures feeding on carrion. Yula is using DNA analyses to estimate population sizes for conservation efforts.



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We conduct conservation research and monitoring in **19 countries** around the world.

#### Protect

#### A FUTURE FOR GOLDEN-WINGS

Cornell Lab scientists and partners will soon release the first rangewide conservation plan for rapidly

declining Golden-winged Warblers. The plan was made possible with help from citizenscience participants and support from the National Fish & Wildlife Foundation and U.S. Fish & Wildlife Service.



#### THIS LAND IS OUR LAND

The 2011 State of the Birds report revealed distributions of hundreds of bird species on public lands, illuminating ways that agencies can manage habitats for birds on 650 million acres of land. The analyses by Cornell Lab researchers were made possible in part by NSF, the Leon Levy Foundation, and the Wolf Creek Foundation.

#### **BEYOND OUR BORDERS**

We increase international conservation capacity by sharing tools and expertise in other countries. With support from the John D. and Catherine T. MacArthur Foundation and other supporters, the Cornell Lab conducts workshops in Argentina, Cuba, Dominican Republic, Haiti, Guatemala, and Mexico to advance the study and protection of birds.



The Lab's Macaulay Library provides unparalleled sound and video recordings from around the world, used in conservation research, monitoring, and education. More than 175,000 audio and 50,000 video recordings are accessible for free online.



Thanks to a generous gift from Robert Schumann, the Cornell Lab has opened a long-desired position for a facultylevel director of Conservation Science. This generous gift, matched by Cornell University, is a transformative step in expanding the Lab's leadership and conservation impact.

"Bob's passion for birds is unfailing," said Scott Sutcliffe, the Lab's stewardship director. "This new faculty position follows Bob's many years of support for the Lab's conservation initiatives and expresses his love for birds and trust in the Lab's staff and faculty."

A search for the Robert F. Schumann Faculty Fellow is now underway.



The Elephant Listening Project collects and analyzes acoustic data on endangered forest elephants in Africa. Above, our collaborators in Gabon prepare equipment to monitor elephants threatened by illegal hunting.



# Education ACROSS THE WORLD

At the Cornell Lab, the world is a classroom where everyone can be a student of nature. Our educational programs reach people in 70 countries-children, teenagers, university students, professionals, and people who simply love birds. It's our commitment and our passion to make the best resources, technology, and training available to all. Our goal: to increase by magnitudes the world's joy, understanding, and conservation of nature.

#### For K-12 Students

Funded in part by the National Science Foundation, the Cornell Lab's educational programs help kids transform curiosity into science and discovery.

Students explore birds and science with the **BirdSleuth** curriculum. Customized versions of BirdSleuth are migrating to Mexico, Guatemala, Costa Rica, and the Caribbean, thanks to federal grants and gifts from Lab donors.

Delving into the Cornell Lab's new **Sea of Sound** curriculum, middleand high-school students hear an underwater world alive with the sounds of blue whales, snapping shrimp, and drum

fish. Using sound and video from around the world, they investigate how animals produce sound and debate the effects of noise pollution. The bilingual **Celebrate Urban Birds** program connects people of all ages with birds and conservation through citizen science, the arts, and habitat improvement. Recently, partners have launched similar programs in Cuba,

Guatemala, Colombia, Chile, and Uruguay.



With the **Crossing Boundaries** curriculum, middle- and high-school students use GPS, GIS, and Google Earth to site a new biodiveristy preserve in the Brazilian Amazon, investigate wildlife and cattle management in Kenya, and compare bird populations between the United States and Mexico. Crossing Boundaries is a joint project of the Cornell Lab and Hobart and William Smith Colleges.

#### **For Aspiring Biologists**

At the Johnson Center for Birds and Biodiversity, students are in every part of the building—learning from scientists, extracting DNA, measuring specimens, analyzing sounds, sharing the latest data they've brought back from oceans, fields, and forests. Each year, new students arrive with fresh questions and ideas, and new graduates move on to discover, to teach, and to inspire others.

Cornell Lab scientists mentor more than 100 undergraduate and graduate students each



year. Beyond Cornell, the Lab's **Online Research in Biology** project offers lesson plans to help faculty engage students in research using citizen-science databases.

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## Our educational programs reach people in **70 countries**.



#### The Athena Fund: PURSUING ANSWERS TO NATURE'S MYSTERIES

Established by an anonymous donor in 2010, the Athena Fund helps graduate students investigate nature's mysteries around the world. Thanks to the Athena Fund, seven students pursued research in five countries last year, and additional students will be supported this year.

In the tropical mountains of Papua New Guinea, Ben Freeman is investigating why bird species tend to occupy narrow zones-sometimes limited to a 2,000-foot elevational range. This year, Ben joined a team surveying a mountain range on the Huon Peninsula and found six bird species previously unknown there.



"The Athena Fund has helped me conduct field work with promising early results, and helped me learn a new language, Tok Pisin," Ben said. "It's

allowed me to spread the idea of a conservation ethic to people with limited contact with the outside world, and to explore one of the earth's most biologically interesting yet largely unknown regions."



#### For Lifelong Learners

Since 1972, bird enthusiasts from around the world have taken the **Home Study Course in Bird Biology** and our recent online course, **Courtship and Rivalry in Birds.** 

Home Study Course scholarships from Lab donors have been awarded to 32 students in 15 countries from Bangladesh to Honduras, opening opportunities for bird study that might not otherwise be possible. Many go on to share what they learn in their home countries.

> creating a powerful ripple effect of expanding knowledge and conservation.

For Professionals

We put the latest tools and techniques into the hands of educators, researchers, and conservationists through workshops for professionals. Scientists from around the world learn sophisticated soundrecording and analysis techniques to aid their studies and conservation efforts. Educators attend free BirdSleuth workshops about connecting kids through migratory birds.

ation efforts. dSleuth workshops rough migratory birds.

Left page, top to bottom: Home Study Course scholarship recipient Karim Kara, from Kenya. Project PigeonWatch participants, New York City. Lab director John Fitzpatrick with high-school students on Young Birders field trip, Hammond Hill State Forest, New York. BirdSleuth students in Costa Rica (2). Yellow-billed Magpie. Right page, top to bottom: Celebrate Urban Birds participants, Puerto Rico. Sapsucker Woods Migration Celebration, Ithaca, New York. Conservation workshop, Colombia. Ben Freeman in New Guinea with a Magnificent Bird-of-Paradise.

## A Community for Birds

## All About Birds

"Thank you for making this superb collection of bird research so readily available to bird lovers everywhere. My appreciation and sense of wonder have been heightened, and All About Birds is sure to become a major distraction—albeit a delightful one for me in days to come!"

—Sheri Hartstein

www.AllAboutBirds.org



# "eBird

totally, totally rocks, and I'm doing citizen science, yay me! I mean, yay you guys."

> —Luisa Serrano, eBirder

www.ebird.org



www.flickr.com/groups/birdshare

#### BARTELS Science Illustration Program



"This internship is the most valuable experience I have ever had as a natural history artist."

– Fritzi Wirth, Intern, Bartels Science Illustration Program



## 52,191 Facebook Fans

"I always enjoyed birding but now I love it. I have learned so much. I look forward to the posts every day."

—HEIDI EBEL, FACEBOOK FAN

www.facebook.com/cornellbirds



### **Neotropical Birds** Thanks to Our 325 Contributors

www.Neotropical.birds.cornell.edu

## Ted Parker's 10,762 historic recordings now online.

www.MacaulayLibrary.org

## "Wow!

I just finished my 23rd FeederWatch season! I still enjoy participating as much as I did when I first started. Thanks for continuing to provide this wonderful excuse to spend a lot of time watching the birds in my yard. And all in the name of science!"

–Victoria Runnoe, FeederWatcher



www.feederwatch.org

## NestWatch



Participants monitored 84 species this year. The count? 21,000 eggs & 14,000 fledglings

www.NestWatch.org

"I feel very lucky that I have reached a place in my life where I am able to follow my passion, where I can make important contributions to conservation and ecology, and can learn so much every day, while having the opportunity to teach others."

> —Taza Schaming, Cornell graduate student



## Great Backyard Bird Count

#### 4 Days / 92,218 Checklists



www.BirdCount.org

## Citizen Science

"The citizen-science activity was pretty cool because we saw how even in the same garden some plants attracted a lot of birds and some didn't. The installation of the bird garden was a lot of hard work but it was cool how we were planting stuff that would attract birds."

> —Owen Kay, age 15, Celebrate Urban Birds

www.CelebrateUrbanBirds.org



An Estate Gift Can Provide for You, Your Family, and the Lab Recently, I had the pleasure of spending a day at the Johnson Center here in Sapsucker Woods with a member who has been with the Cornell Lab of Ornithology for 50 years. This gentleman from Texas has loved birds all of his life and signed up for the very first issue of *The Living Bird* annual in 1962. We traded stories with Greg Budney in the Macaulay Library, Ken Rosenberg in Conservation Science, Tim Gallagher, editor-in-chief of *Living Bird*, and John Fitzpatrick, director of the Lab.



In that short afternoon, I learned an amazing amount about the Lab's history and meaning—and ended up thanking the visitor not only for his amazingly generous five decades of support but for sharing his knowledge and passion as well.

It was a powerful reminder of why and how the Cornell Lab works. Although we are a proud research unit of the College of Agriculture and Life Sciences at Cornell University, we are self-funded, driven by more than 40,000 wonderfully philanthropic donors from across the country who believe in our mission.

Whether you have been with the Lab for 50 years, weeks, or days, I would like you to take a moment to consider including the Cornell Lab in your estate plans. Fundamentally, this is an important statement of your values. Like everyone who works here, and the 40,000 other people who financially support the Lab, we hope you believe that science, conservation, and engagement of legions of students and citizen-science participants will provide hope for the future of birds and biodiversity.

Including the Lab in your will is very easy (see example on page 15). In addition, because we are part of Cornell University, we have some of the best planned giving and estate professionals on staff who would be happy to help advise about gifts of real estate, lead trusts, gift annuities that pay you, and many more options.

Most of all, thank you. As I was reminded by my visitor from Texas, the Lab was created by the passion, gifts, and commitment of hundreds of thousands of people who believe in the common mission we have to save birds and biodiversity on this planet. I hope you will consider making a statement about that commitment in your estate plans too.

Sincerely,

Jean Sealan

Sean Scanlon Senior Director, Development and Philanthropy (607) 254-1105; sbs259@cornell.edu

Photos left to right, top to bottom: Yellow-bellied Sapsucker. Cornell undergraduate Lena Samsonenko in Morgens Observatory, Johnson Center for Birds and Biodiversity. The Lab's magazines, 2011 and 1962. Tree Swallow. Linda Kramer. Parabolic recording equipment, ca. 1935. Audio curator Greg Budney with handheld parabola. The Johnson Center for Birds and Biodiversity.



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## Estate Planning: A Lasting Legacy

#### It's easy to include the Cornell Lab in your estate plans,

especially through a bequest or life income agreement. To make a bequest through your will, simply include the language: "I give and bequeath the sum of \$\_\_\_\_\_\_ (or\_\_\_\_% of my residuary estate) to Cornell University, an educational institution in Ithaca, NY, for the Lab of Ornithology to be used in support of its charitable purposes." Doing so can perpetuate your interest in birds and support of the Lab forever.

To learn more about estate planning opportunities that benefit you and the Lab, please call Scott Sutcliffe at **(607) 254-2424** or Sean Scanlon at **(607) 254-1105**. The Lab is pleased to acknowledge such friends in perpetuity as members of the Sapsucker Woods Society.



#### A Gift that Lives On

A generous bequest from Linda Kramer, a longtime member and dear friend, who passed away recently, will enable the Cornell Lab of Ornithology to create five



new graduate student fellowships. Linda made this bequest because of her abiding love for birds, her appreciation for the Cornell Lab, and her commitment

to nurturing the aspirations of ornithology students. Linda and her husband, Samuel, set the stage for this magnificent gift through their annual giving to the Lab, providing significant annual support for students. We are saddened by Linda's death, but her legacy will live on through The Samuel and Linda Kramer Graduate Student Fellowships. Worthy students now and into the future will benefit from Linda's love of birds and commitment to education.



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\* Cornell University Faculty



## Cornell University

Ph.D., Arthur A. Allen

#### \$100,000 and up

Mr. and Mrs. Robert B. Berry Scott and Karen Harder, Kenneth L. Harder Trust Mrs. Wendy Paulson H. Charles and Jessie Price Mr. and Mrs. Edward W. Rose III Ms. Pamela J. Story Wolf Creek Charitable Foundation

#### \$25,000 to \$99,999

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#### \$10,000 to \$24,999

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#### \$5,000 to \$9,999

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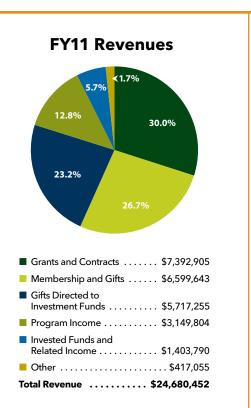
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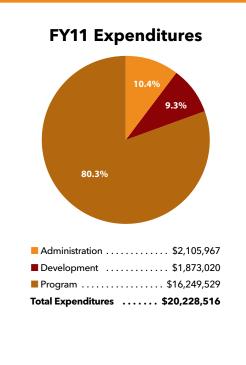


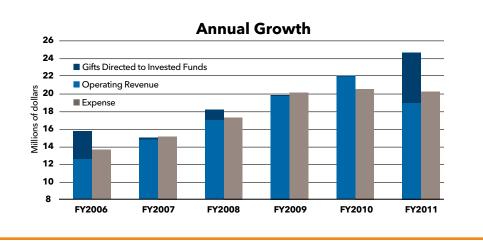
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Pages 2-3: Spoon-billed Sandpiper and nest with eggs by Gerrit Vyn.

Page 4: Baltimore Oriole by Gerrit Vyn. Page 5: Great Backyard Bird Count participant in Rhode Island by Sue Dunn. Students in Puerto Rico courtesy of Leaders of the World. White-breasted Nuthatch by Gary Tyson. Monarch butterfly by Diane L. Tessaglia-Hymes.

Page 6: Magnificent Riflebird in New Guinea by Tim Laman. Acorn Woodpeckers by Marie Read. Song Sparrow by Cameron Rognan. Tree Swallow by Eduardo Iñigo-Elias. Taza Schaming by Jada Schaming. Clark's Nutcracker by Jacob S. Spendelow. Page 7: New Guinea expedition by Tim Laman. Black-throated Gray Warbler by Roy Brown; Blackburnian Warbler, American Redstart, and Prothonotary Warbler by Laura Erickson; Painted Redstart by Ed Schneider. Wood Thrush by Roger Eriksson.

Page 8: Nathan Senner and Andy Johnson with Hudsonian Godwit, Canada, by Eric Liner. Helmeted Woodpecker by Martjan Lammertink. Black-capped Petrel by Brian Sullivan. Black-crowned and Gray-crowned Palm-Tanagers by Eladio Fernandez. Yula Kapetanakos by Kathleen Griffen. White-rumped Vulture by Jyotendra Thakuri. Underwater humpback whales by David O. Brown. Page 9: Peru's Gran Pajonal region by Glenn Seeholzer and Ben Winger. Golden-winged Warbler by Gerrit Vyn. Karl Berg by Chris Pallis. Forest elephant by Andrea Turkalo. Colleagues in Gabon courtesy of Peter Wrege.

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Page 12: Northern Flickers by Keith Willis. Mallard by Rebecca Richardson. Keel-billed Toucan by Peter Watthy. Ann-Kathrin "Fritzi" Wirth by Diane L. Tessaglia-Hymes. Golden-winged Warbler illustration by Ann-Kathrin Wirth. Page 13: Taza Schaming by Pocholo Martinez. Clark's Nutcracker by Wolfgang Wander. Great Backyard Bird Count kids by Erin Peppel. White-breasted Nuthatch by FeederWatcher Jennifer Taggart. Students in garden by Meghan P. Cerveny.

Page 14: Yellow-bellied Sapsucker by Marie Read. Student in Morgens Observatory by Jason Koski. Greg Budney by Jon Crispin. Page 15: Photos of sound recording equipment ca. 1935 from Cornell Lab of Ornithology archives. Johnson Center for Birds and Biodiversity by Kevin Stearns. Tree Swallow by Wayne Bierbaum.

Back cover: A Spoon-billed Sandpiper chick by Gerrit Vyn.



**On the back cover** a Spoon-billed Sandpiper chick sits camouflaged among lichens on the Russian tundra.

Adult Spoon-billed Sandpipers maintain constant vigilance, watching for predators such as gulls, jaegers, and ravens. When they utter a warning call in response to aerial predators, the chicks become motionless, blending into the landscape to avoid detection. "It was difficult to watch the young depart

the nest for the last time," said photographer Gerrit Vyn. "Their tiny bodies look so vulnerable in the seemingly unforgiving landscape–it's a wonder that any of them survive."

The future of Spoon-billed Sandpipers is precarious, with fewer than 200 estimated to remain. The Cornell Lab of Ornithology will use scientific expertise and vibrant footage of this species to provide people, conservation organizations, and government agencies with the inspiration and information needed for critical conservation action.

The Cornell Lab of Ornithology

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