



# MONTHLY ACTIVITY REPORT

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**To:** AArk Steering Committee  
**From:** AArk Staff  
**Subject:** AArk monthly activity report for April 2008  
**Date:** 9 May 2008

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*Note: these reports document efforts that are underway; people seeking additional information should contact [Kevin Z.](#) These monthly reports are now archived [online](#).*

## General updates from the amphibian community

### News/Publications

- [John Daly memorial](#)
- Zippel & Mendelson: [The Amphibian Extinction Crisis: A Call To Action](#)
- [The Challenge of Conserving Amphibian Megadiversity in Madagascar](#)
- Kevin's [guest blog](#) at PLOS in support of this paper
- Defenders of Wildlife: [Slipping Away](#)
- Techniques published for detecting [amphibians](#) and *Bd* ([1](#), [2](#)) from environmental DNA
- [The relationship between the emergence of \*Batrachochytrium dendrobatidis\*, the international trade in amphibians and introduced amphibian species](#)
- ASG seeks nominations for [Sabin Award for Amphibian Conservation](#), closing date 1 June 2008.

### Amphibian/Herp Meetings

- Joint [Meeting](#) of Ichthyologists and Herpetologists in Montreal 23-28 July
- 6<sup>th</sup> World [Congress](#) of Herpetology in Brazil 17-22 August
- [Symposium](#) to create a national strategy for declining Chilean amphibians in Santiago TBD September
- VIII Latin-American [Congress](#) of Herpetology in Cuba 24-29 November

### Funding available

- Columbus Zoo continuously accepts applications for grants and emergency grants and has a strong record of supporting amphibian conservation work. For more information, contact [Rebecca Rose](#), Field Conservation Coordinator.
- Emergency funds are also available through [Memphis Zoo](#) and [Disney](#).
- With the pending extinction of Panamanian golden frogs in the wild, [Project Golden Frog](#) has created the [Atelopus Conservation Trust](#) and is offering \$5,000 grants to support conservation management and research of any species of *Atelopus*. Applications are due 1 July 2008.
- Other grant opportunities are described in Appendix 3 of [AZA Amphibian Resource Manual](#).

### Funding needed

- For species rescues in eastern Panama ([Houston budget proposal](#))
- For species prioritization workshops in Panama, India, Sri Lanka, Peru, Hong Kong, Indonesia, Thailand.
- For 2 Brazilian students to travel to the amphibian husbandry course in Toledo this November
- For workshops and facilities in [Costa Rica](#).

*Amphibian Ark is a partnership between the World Association of Zoos and Aquariums (WAZA), IUCN/SSC Conservation Breeding Specialist Group (CBSG), and IUCN/SSC Amphibian Specialist Group (ASG).*

- AVZA (Venezuelan zoo association) seeks \$2,000 to develop amphibian-specific educational posters and coloring books for school children.
- Other partnership opportunities are available in [Latin America](#) and [Asia](#).
- For AArk officer support, including 25% Taxon Officer Kevin J, 50% YOTF Campaign Manager Lesley, 50% Program Director Kevin Z, and any/all of a Training Officer.

#### Vacancies

- Detroit Zoo seeks [Curator of Amphibians](#).
- 4-year Ph.D. position at Ghent University to study "Virulence mechanisms of *Batrachochytrium dendrobatidis* in the pathogenesis of chytridiomycosis in amphibians". Position closes 20 June 2008; contact Prof. [Frank Pasmans](#)

#### CURRENT

##### **AArk Coordination** (compiled by AArk Program Officer [Kevin Zippel](#)).

- AArk gladly welcomes Lena Linden of Nordens Ark as the new CBSG representative on the AArk Executive Committee ([Lena@AmphibianArk.org](mailto:Lena@AmphibianArk.org)). Lena is replacing Jeff Bonner, who will continue to be active in seeking governmental support for AArk/ACAP. Many thanks to Jeff for his heroic efforts to date.
- Gerald Dick (WAZA) is leading efforts on a resolution calling for support of ACAP from the IUCN secretariat, commissions, and members.
- We are designing an e-survey for the *ex situ* community to evaluate recent and planned amphibian conservation activities.
- Joe Mendelson to attend and present at joint meeting of academic herp societies in July to promote conservation research, management, and YOTF participation among that community.
- Vast majority of AArk coordination efforts going into enabling partners for the YOTF campaign and various capacity building efforts.

##### **Taxon Survival Efforts** (compiled by AArk Taxon Officers [Kevin Johnson](#) and [Richard Gibson](#))

- The latest draft of the [Amphibian Population Management Guidelines](#) was sent out to the Steering Committee members; comments are due back by 12 May 2008.
- Richard ran a two day species prioritization workshop for southern African amphibians at the end of April. The workshop was hosted by the Johannesburg Zoo and was attended by over twenty amphibian specialists from field, academic and *ex situ* backgrounds. The process ran very smoothly, with the support of all present, and resulted in a tidy list of species prioritized for Rescue, Research and Educational purposes. Prioritization of about 35 species from Angola, Malawi, Tanzania, and Zimbabwe was not completed owing to lack of information and familiarity with them in the wild. Further assistance will be sought to complete these species scores in coming weeks. The completed spreadsheet will be available on the AARK data portal once it is finalized and approved by all those who attended the workshop.
- Kevin J is leading a prioritization workshop in Hong Kong 22-23 May at Ocean Park Hong Kong. The scope will be Hong Kong Guangzhou provinces, and participants are being invited from Hong Kong University, Agriculture, Fisheries and Conservation Department, Kadoorie Farm and Botanic Garden, Ocean Park and scientists from Guangdong Province, China.
- Kevin J is also leading a prioritization workshop in Thailand for Thai species May 27-29, and is being held at the Faculty of Forestry, Kasetsart University
- Completed versions of the prioritization data from various workshops are available on the [Amphibian Ark portal](#)
- Kihansi spray toad PHVA [final report](#) submitted to Tanzanians for their consideration.
- Joe, Kevin, and Ron are working with Houston Zoo staff to coordinate a program matching zookeepers

and others with resources who are looking for field experience with field researchers re-assessing historic decline sites in Central America.

- Robert and Richard are in the very early stages of considering a prioritization workshop for Central African species in Cameroon next year.

### **Training & Other Capacity Building** (compiled by AArk staff)

- Kevin Z, and Joe Mendelson and Ron Gagliardo (both AArk Steering Committee) taught at 6<sup>th</sup> AZA [Amphibian Biology & Management](#) course in Toledo 12-18 April 2008. Special thanks to Toledo Zoo for continuing to host this course, and to Zoos Victoria and Columbus Zoo for financial sponsorship of Mr. Zhang Gaofeng, representative of the Chinese Association of Zoological Gardens (CAZG) from Beijing Zoo.
- Richard and Gerardo Garcia (DWCT) led a three day intensive amphibian husbandry course following the prioritisation workshops at Johannesburg Zoo. Around twenty keepers, curators, vets and even directors, as well as a few field biologists and students, attended the gruelling three day extravaganza of lectures, discussions, workshops and practical sessions. The course ended with an assessment of the Johannesburg Zoo's impressive on and off show amphibian rooms, making suggestions and recommendations for improved husbandry and bio-security possibilities as the zoo develops its expertise and focus from common 'model' species to the newly prioritised South African focal species.
- Plans are coming along well for a husbandry workshop in Thailand, June 4-6, 2008.
- Mesoamerican training course in preparation through [AMACZOOA](#); more details coming soon.
- Husbandry course planned for Peru in November 2008.
- Husbandry course planned for Brazil in March 2009.
- Everyone is looking for "creative solutions" to fill the last AArk vacancy - Training Officer - and not break the AArk budget. **We really need an institution to donate most/all of this position, as Brookfield, Chester, and Antwerp are doing for others.**

### **Research Efforts** (compiled by AArk Research Officer [Robert Browne](#))

- The National Zoo in Pretoria, South Africa, is expanding their research facility and will collaborate with the AArk in developing research on chytrid epidemiology and pathology, and establish a genetic resource bank for African amphibians.
- Robert is working with numerous institutions in China and internationally to survey *ex situ* and *in situ* populations of the Chinese giant salamander for genetic diversity, extent and security of *in situ* populations, to improve *ex situ* reproduction, and to gene bank their genetic diversity.
- The frogs of Cameroon are being prioritized in 2009 and Robert is working with the Royal Zoological Society of Antwerp establish an *ex situ* program for the conservation of these amphibians.
- There are numerous threatened salamanders and other amphibians in the Middle East. Robert is establishing a network for the *ex situ* conservation of these species.
- In support of both *ex situ* and *in situ* conservation efforts the AArk is developing standard protocols and a global network of institutions to develop reproduction technologies and the genetic resource banking of amphibians.
- Lesley assisted Institute of Zoology, ZSL (UK) researchers Rhiannon Lloyd/Bill Holt with advice re. zoos and their amphibian cryobanking project

### **Communications/Development** (compiled by YOTF Campaign Manager [Lesley Dickie](#) & Taxon Officer [Kevin Johnson](#))

- **The AArk 2008 YOTF campaign:**
  - Leipzig Zoo staged a wonderful media event where Princess Xenia of Saxony kissed a (stuffed) frog in front of 200 school children, to whom she explained the plight of the animals. The princess happily agreed to be an ambassador for the YOTF campaign. In June, the Crown Princess of

Sweden, Nordens Ark's patron, will attend the opening of a new area at the zoo dedicated to Wetland species featuring amphibians.

- Lesley gave a TV interview to Sky and Channel 5 news in the UK on the global amphibian crisis and the work of Amphibian Ark
- Arranged images (with help from our colleagues Bill Konstant and Paul Crump who kindly donated images) and proofed text for Amphibian Ark entry to 'Going, Going, Gone....' book.
- Lesley had a phone meeting with IUCN Asia colleagues re the HOPart initiative and progressing the development in London
- Kevin Z promoting YOTF with presentations at Ohio State University, Rosamond Gifford Zoo, Wisconsin Public Radio, also chatting with Argo Films about PBS Nature series on amphibian declines, and journalist from Columbia University.
- There are a number of opportunities arising to promote AArk with requests for materials from the general public and zoos/aquariums. Elizabeth (CBSG) is sending printed tri-fold leaflets (generously donated by Fowler Printing) to appropriate institutions/groups and individuals.
- Lesley contributed an AArk news update to AZA Amphibian Newsletter
- Colleagues in Asia continued to do an amazing job at collecting signatures for the global petition. Our thanks to Dr Morshed and colleagues at Chittagong Zoo for collecting more than 1000 signature from Chittagong Veterinary and Animal Sciences University, the Barishal government and other veterinary college and schools from Chittagong City, Bangladesh.
- Continued development of the joint Amphibian Ark/ZSL/WCS amphibian symposium in London in November 2008
- Dealt with numerous emails and enquiries in relation to the YoTF campaign
- A big, big thank you goes to Polly Philpot of Edinburgh Zoo, who abseiled off of the Forth Rail Bridge in Scotland to raise awareness (her bravery made the newspapers) of the crisis and funds (~\$1200) for the YoTF
- **The AArk website:**
  - The site is now available to visitors in China (the previous server was banned by China), and work has begun on the Chinese versions of the web site. Two versions are being developed in parallel, one in Simplified Chinese and one in Traditional Chinese. AArk would like to thank Joann Chang from the Taipei Zoological Foundation, and Xiaohong Wang from the Training Program of China, Zoo Atlanta, Sue Zhu from Taronga Zoo in Sydney, and Xiaoyu Wang from the Care For Frogs website ([www.frogvilla.com](http://www.frogvilla.com)) for their help with the translations. These versions of the site should be available by the end of June.
  - **Website languages:** [Spanish](#) and [German](#) are available with Chinese coming soon.
  - **InfoPack:** [Portuguese](#), [English](#), Chinese [traditional](#), Chinese [simplified](#), [Japanese](#), [German](#) and [Spanish](#), are available with French promised soon. We also have a few regional InfoPacks available: [EAZA](#) and [AZCARM](#) (in Spanish); regional representatives who would like their region's InfoPack on the web please send it to [Kevin J](#). The AArk Mask (two versions), and the AArk Banner (24x60inches) with the campaign slogan are also available for [download](#).
  - **Online Petition:** An online petition urging politicians and parliaments of the world to commit resources for urgent global action is now available [online](#). The petition is available in English and German, and is currently being translated into Spanish. It is also available in [French](#) on the WAZA website.
  - **Videos online:** A number of videos, including Jeff Corwin, Kevin Zippel and others are available [online](#). Recent additions include media coverage of the ARAZPA YOTF launch, and footage of the last Panamanian Golden Frogs in the wild from David Attenborough's recent documentary. Sir David Attenborough records [interview](#) for YouTube. Jean-Michel Cousteau records [PSA](#) for YouTube.

- **News From the Zoos:** The new page [News From the Zoos](#) is ready for all regional associations who want to post information about their YOTF activities. Currently there are links to each region's web page but those who want AArk to create a new page for them please send the information to [Lesley](#). You can also send to Lesley the [names of the regional representatives](#) for the YOTF campaign if not listed on the website.
- **Visitors:** Site visitation seems to have increased dramatically this month, the first full month after moving the site to a new server. There were 47,600 visits, resulting in 57,613 page views.

Month	Visits	Month	Visits
Oct-06	306	Jul-07	2,420
Nov-06	331	Sep-07	4,754
Dec-06	302	Oct-07	6,228
Jan-07	336	Nov-07	9,972
Feb-07	4,122	Dec-07	10,191
Mar-07	2,574	Jan-08	31,076
Apr-07	2,763	Feb-08	32,636
May-07	2,816	Mar-08	20,716
Jun-07	3,361	<b>April 08</b>	<b>47,600</b>
Aug-07	4,587		

The most visited page, continues to be the Year of the Frog page, and the associated Year of the Frog InfoPack page.

- **Fundraising and sponsorship**

- 11 frog call ringtones are available for sale via the AArk web site - [http://www.amphibianark.org/ringtone\\_code.html](http://www.amphibianark.org/ringtone_code.html) . Currently, these are only available for phone carriers in the US and Canada, but it is hoped that they will be available in other countries soon.
- HOPart: IUCN Asia regional office is planning at least six high-profile gala art auctions in key locations around the world in late 2008 to raise \$1-4 million for AArk and other ACAP activities. Lesley made a number of contacts with zoos in US and Asia to ascertain their interest in the HOPart project
- Business partners selling items and donating a percentage of the profits to AArk can be found in our online [shop](#).
- Through New York auction house Charity Buzz, we will be [auctioning](#) the naming rights to unnamed species--1 per month for 5 months, starting in May--with all of the money going to benefit amphibian conservation in range countries.

- **from WAZA**

- DGHT has the tree frog (*Hyla arborea*) as the amphibian of the year in 2008, and also the CITES Animals Committee, held at Geneva 19-24 April and chaired by Tom Althaus, used the tree frog as its emblem.
- WAZA has produced a Frog of the Year / Year of the Frog flyer for distribution at the CITES AC and the CBD Conference.
- The zoo-association of the German-speaking area have jointly mandated the development of a "donation frog" (photo of prototype available upon request)
- Stiftung Artenschutz has produced a flyer and a poster (PDF available upon request) in German for zoos keeping exotic amphibian species, to be used mainly by the larger zoos participating in EAZA's frog alarm campaign.

- The German Wildlife Parks Association is up to produce a similar flyer on native species, which will be used also by the Austrian and Swiss Zoo Associations, by the German Animal Parks Associations, institutions of the VDZ, and by WAZA. WAZA, OZO and zooschweiz have ordered 10,000 copies each, the total print run will be in excess of 100,000. (PDFs available upon request)
- Everyone continues to answer dozens (hundreds?? many!) of email/phone queries regarding amphibian conservation, program development, press, proposal reviews, etc.

## Travel and Workshop Schedule

This schedule changes frequently; contact the AARK Staff for further details.

<b>Dates</b>	<b>Meeting Description</b>	<b>Location</b>	<b>AArk Staff, SC member, affiliates</b>
<b>MAY 2008</b>			
4-9	ALPZA XV Congress	Quito, ECUADOR	Sarmiento
10	amphibian husbandry/conservation workshop	Ithaca, NY, USA	Zippel
22-23	amphibian decline and vet medicine workshop	San Jose, COSTA RICA	Matamoros
22-23	Prioritization workshop	Hong Kong	Johnson
27-29	Prioritization workshop	Thailand	Johnson
TBD	Prioritization workshop	Indonesia	Johnson
<b>JUNE 2008</b>			
4-6	Husbandry workshop	THAILAND	Johnson
6-8	North American Amphibian Conference	Erving, MA, USA	Zippel
12-18	Society for Conservation Biology	Chattanooga, TN, USA	Mendelson
18-20	Trier University Symposium: Cryobanks	Trier, GERMANY	Browne, Reid, Ryder
18-21	International Herpetological Symposium	Nashville, TN, USA	Zippel
27-29	Amphibian training seminar	Stuttgart, GERMANY	Dollinger?
TBD	Prioritization workshop	PERU	Carrillo
<b>JULY 2008</b>			
23-28	joint meeting of academic herp societies	Montreal, CANADA	Mendelson
26-27	amphibian weekend at The Wild Center	Tupper Lake, NY, USA	Zippel
<b>AUGUST 2008</b>			
17-22	6th World Congress of Herpetology	Manaus, BRAZIL	TBD
<b>SEPTEMBER 2008</b>			
<b>OCTOBER 2008</b>			
17	NABT National Conference	Memphis, TN, USA	Gagliardo?
16-19	CBSG Annual Meeting	Adelaide, AUSTRALIA	Bonner, Dickie, Johnson, Zippel
19-23	WAZA Annual Conference	Adelaide, AUSTRALIA	Bonner, Dickie, Johnson, Zippel
28	Chicago Zoological Society lecture series YOTF Event	Chicago, IL, USA	Zippel
<b>NOVEMBER 2008</b>			
6	Frog Symposium Meeting, Linnean Society of London	London, ENGLAND	Gibson?
8-14	AZA Amphibian Biology & Management	Toledo, OH, USA	Gagliardo, Mendelson, Zippel
20-21	Frog symposium, Zoological Society of London	London, ENGLAND	Bonner, Dickie, Gibson, Zippel
24-29	VIII Latin-American Congress of Herpetology	Topes de Collantes, CUBA	Mendelson, Sarmiento
<b>DECEMBER 2008</b>			
<b>APRIL 2009</b>			
18-24	AZA Amphibian Biology & Management	Toledo, OH, USA	Gagliardo, Mendelson, Zippel



**amphibian ark**  
2008 YEAR OF THE FROG

# MONTHLY ACTIVITY REPORT

## Acknowledgements 30 April 2008

*The work of AArk is possible due to the generous support of the following individuals and institutions in 2007 or 2008:*

### **Up to \$50,000**

The Clorox Company  
Conservation Breeding Specialist  
Group (CBSG)  
Chicago Zoological Society  
Saint Louis Zoo  
SeaWorld & Busch Gardens  
World Association of Zoos &  
Aquariums (WAZA)  
Zoological Society London

### **Up to \$10,000**

Allwetterzoo Münster  
James Bramsen  
Chester Zoo  
Columbus Zoo & Aquarium  
Denver Zoo  
Fowler Printing & Graphics  
Omaha's Henry Doorly Zoo  
Paignton Zoo  
The Living Desert  
Zoologischer Garten Leipzig

### **Up to \$5,000**

Al Ain Zoo & Aquarium  
American Frog Day 2007  
Binder Park Zoological Society  
Bristol Zoo Gardens  
Disney's Animal Kingdom &  
Animal Programs  
Galveston Chapter of the AAZK  
Marwell Zoological Park  
New Mexico Bio Park Society,  
Inc.  
Nordens Ark  
Ocean Park Conservation  
Foundation  
Nick & Sue Pinder  
Rosamond Gifford Zoo  
Sedgwick County Zoo  
Singapore Zoo  
Tokyo Zoo Conservation Fund  
Toledo Zoo  
Toronto Zoo  
Wildlife Conservation Society  
Zoos South Australia

### **Up to \$1,000**

BIAZA  
Birmingham Zoo & Birmingham  
Zoo Chapter AAZK  
Buffalo Zoo  
Cameron Park Zoo  
Kansas City Zoo  
MARS Preservation Fund  
Minnesota Zoo  
New Mexico Bio Park Society  
Rochester Museum & Science  
Center  
Royal Veterinary College  
Zoological Society-London  
Sacramento Zoo  
San Francisco Zoological Society  
Staten Island Zoo  
Taipei Zoo  
Tampa's Lowry Park Zoo

### **Up to \$500**

John Adams  
Susan Anderson  
Anonymous  
Anonymous in honor of Winona  
& Rupert  
Barcelona Zoo  
Kara Blakeslee  
Richard Colwin Bryarly Jr.  
Stephany Burge  
Chris & Dave Chadwick  
Chesapeake Chapter AAZK  
Clyde Peeling's Reptiland  
ED's Fly Meat  
Joseph Geever  
Stuart Haber in memory of Gus  
Kaufman  
M. Buffy Hodgetts  
Kirstin Hunter  
Johannesburg Zoo  
Gary & Roberta Kirkland  
Lake Forest Academy-*The  
Spectator*  
Leon Zoo  
Janie & Rick Levis  
Luke, Mona, Heidi, & Meisha  
Lorge  
JoAn & Ian MacBryde  
Thomas Martin

Marian Van Eyk McCain  
Laura & Paul Miller  
Joseph Miscimarra  
Geneve Monnes  
Marianne & Mike Murphy  
Mariann Pancoe  
Donald Popham  
Lisette Pavajeau  
Sage Rentfrow  
Rosamond Gifford Zoo in honor  
of Kevin Zippel  
Claire Rosser  
SAAMBR  
Heather St. Louis  
Noriaki Santo  
Jan Sealover  
Douglas Widener  
Wisconsin Wetlands Association  
Zoo New England

### **Up to \$100**

Alta Vista Elementary  
Anonymous  
Robert & Monique Canonico  
Charlotte Connor  
David Corsini  
Janet Corson  
Robert & Sue Dupré  
Brett Eisenlohr  
Jonathan Foise  
Judi Goldfader  
Lee & Shirley Griffey  
Terri Harmon  
Elizabeth Hodgdon  
Jennifer Hunter  
Wong Pak Ki  
Andrew Luk  
Madison Community Foundation  
Diana Metrey  
Meg Oakes  
Steven Andrew Painter  
Linda Pather  
Amanda Pekin  
Cynthia Petrella  
Save the Prairie Society  
Susan Schroeder  
South View High School  
Douglas Sovonick  
Regina Stine

Daniel Sutter  
Michael Traynor  
Deborah Wallwork  
Kaye Ward  
Laura Wessels  
Mathieu Woldhuis

### **Up to \$50**

Albright Middle School 5th  
Grade  
Christine Apolzer  
Deborah Baker  
Anna Barbosa  
Scott Barolo  
Jim Bartos  
Rose Lee Benson  
Marcus Bingham  
Cecelia Bland  
Bettina Brinkley  
Jack & Margaret Broxholme  
Alison Burt  
Wallace Chin  
Kayla Cruz  
Ian & Ray Cummings  
Laurent Daudet  
Naomi Doak  
Kimberly Egan  
Kendra Felisky-Watson  
James Frank  
Charles Hall  
Tracy Hart  
Douglas Hull  
Lars Gerner Jensen  
Kitten Kephart  
Floyd King  
David & Marcie Klinger  
Ulle Koolmar  
Ron & Kathleen Kornak  
Jeff Kwoikoski  
Nathaniel Lachenmeyer  
Ruben Lopez  
Marena Marshall  
Kathy Mathis  
Christopher Michaels  
Marsha J. Moore  
Jane Morris  
John Muller  
Michelle Paul  
Andrea Peck

L. Keith Pflum  
Linda Ray  
Lisa Reisman  
Helen Sandland  
Michael Sauer  
Donna Savage  
Mark Schiano  
Sharon Silverman  
Sarah Sokolowski  
Christina Stanziano  
Deborah Swain  
Stacy Tate  
Georgette Taylor  
Louann Thogmorton  
Valdosta Jr. Woman's Club  
Karen Valley & Meghan  
Namaste  
George VanArsdale  
Gwendolyn Weeks & Michael  
Steenbakkers  
Elissa Wells  
Javier Williams  
Jenine Wilson  
Rosalind Wombwell  
Diana & Thomas Woods  
Melissa Wojtylak in honor of  
Grace Anne  
Zachary Wright

**Up to \$25**

Jennifer Adams  
Anonymous  
Anonymous  
Kade Ariani  
Nicolas Barbieri  
Stephen Bowater  
Jessica Bryan  
Adrienne Valdespino Caplan  
Jamie Carney  
Dorothy Clark  
Shelley Comella  
Michelle Contillo  
Deborah Daniels  
Drue Danz  
Rebecca Davy  
Jennifer Day  
Detroit Zoo  
Hannah Dunstan  
Candis Ellis

In memory of FatFrog  
Edward Flanagan  
Angela Ford  
David Forrest  
Wendy Free  
Suzen Galvin  
Peter Germuska  
Melissa Graham  
Martijn ter Haar  
Jennifer Hagstrom  
Lee Hall  
Susan Handa  
Barbara Harris  
Ashley Heeren  
Ben A. Hrach  
Lauren Hruska  
Sylvia Hurdle  
Jackie Irving  
Chloe Jewel  
Hazel Jones  
Tony Jones  
Adamandia Kapsalis  
Adam Kennedy  
Christina Kennedy  
Anne King  
Kathy Kirkland-Cady in honor of  
Kevin Zippel  
Kathy M. Krizek  
In memory of Patricia June  
Lambert

Amber, Angus, & Noah Landry  
Abby Leone  
Nicholas Leonetti  
Rob Magnanti  
Sally Mahoney  
Sandra Maler  
Angelica Martinez  
Darla Michalicek  
Lisa Miller  
Alissa Mudd  
Samantha Nelson  
Darren Noble  
Thibault Normand  
Jean Novotny  
Michael Nunley  
Vinod Oedairadsingh  
Linda Pellegrino  
Lindsey Pierce  
Andrea Polanowski

Patrice Powers  
Ryan Reed & Christiana Loew  
Harry Richards  
Pete Ruppel  
Donald & Anette Sadenwater  
Mike Shelton  
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Mark Steele  
Synnabar Graphics  
Charles Thompson  
Alex Vactor  
William Valencia  
Ioana Voiculescu  
Diane Vornoli in honor of  
Stephen  
Christina Weidner  
Harold Weller  
Valerie White  
The Whites Family  
Deborah Zeitman  
Scott Zippel  
Peter Zrinski

**Up to \$10**

Marilyn Anderson  
Jill Baker  
Erin Baldwin  
Marjorie Barton  
Christina Blankenship  
Debora Borba  
Abe Brown  
McKay Caruthers  
Blanca Cohen  
Matt Croskey  
Charlotte Cullen  
Brenda DiAntonis  
John Dubin  
Tracy Emmanuel  
Steven Errick  
Sharon Ferrell  
Barbara Finch  
Stephen Furgang  
James Gibbens

Ben Graham  
Bri Handy  
Shlomi Harif  
Erika Harm  
Johanna Harvey  
Arlen Heeren  
Molly Hilton  
Justine Hirten  
Rob Holden  
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John Kilpatrick  
Marcella Klein  
Collette Lash  
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Stephanie Liao  
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Matt Lyon  
Megan McEvers  
Geanine Meerbach  
Emily Mei  
Victoria Mendez  
Jennifer Miller  
Carol Nye  
Christine Pilotti-Chesire  
Meredith Placko  
Cayanne Ramuten  
Amanda Richardson  
Renée Richmond  
Samantha Rowland  
Megann Schaefer  
Kelly Seals  
Ross Secord  
Angela Kingston Smith  
Franziska Tinner  
Eric Troidahl  
Ekaterina Varlamov  
Dara Vitale  
Wes Wahlin  
Tami Wester  
Jamie Woodward

***And through  
contributions in  
memory of beloved  
conservationist***

***Mary Sughrue Rabb:***

Gerald Adelman  
Jill Allread & Pamela Freese  
Anonymous  
Terry & Sharon Anthony  
Kathryn Appelbaum  
Anne Baker  
James Ballowe & Ruth  
Ganchiff  
R. Lou Barker  
Joyce Barloga  
Jill Bhatia  
William & Patricia Braker  
Marilyn Catalanello  
Diane Cavalieri & Peter Patton  
Arie & Ida Crown Memorial  
Defenders of Wildlife  
Lawrence & Vicki DeMar  
Peggy & Michael Devlin  
Amy T. Dickinson  
Russell Evans  
Conrad & Carol Fialkowski  
Morgan L. Fitch Jr.  
Stanley & Helen Freeman  
Friday Docents of the  
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