



The Cactus Wren·dition



Volume LXII, No. 4

Winter 2011 / 2012



Wilson's Warbler

Photo by Jim Burns

Programs 2011-12

December 6, 2011

Larry Morgan
Birds of Dauphin Island
 Dauphin Island, Alabama
Webster Auditorium

Jan. 3

Birds of Japan
Tom Gaskill
 Since the earthquake and tsunami of 2011, Japan has been in the news for a lot of sad reasons. We'll take a look at the brighter side of

Committees/Support

Arizona Audubon Council Rep
 Emerson Stiles
estiles2@hotmail.com

Bookstore
 Mel Bramley
 480 969-9893

Hospitality
 David Chorton
 602-253-5055

Web Page
 Michelle Peppers
 480.968-5141
burge@burgenv.com

Maricopa Audubon Website
<http://www.maricopaaudubon.org>

Maricopa Audubon Phone
 480-829-8209

These are brand-new birds of
 twelve-months' growing,
 Which a year ago, or less than twain,
 No finches were, nor nightingales,
 Nor thrushes,
 But only particles of grain,
 And earth and air, and rain.
 – Thomas Hardy

An Investment in the Future

Bequests are an important source of support for the Maricopa Audubon Society. Your chapter has dedicated itself to the protection of the natural world through public education and advocacy for the wiser use and preservation of our land, water, air and other irreplaceable natural resources.

You can invest in the future of our natural world by making a bequest in your will to the Maricopa Audubon Society. Talk to your attorney for more information on how this can be accomplished.



Laughing Gull
 Photo by Larry Morgan

Japan. Because of its location, Japan is home to a wonderful avifauna, including the iconic Red-crowned

Feb. 7th, 2012

Wildlife Surveys of Vietnam
Randy Babb

Learn about the herps, bats and other small mammals of the jungles of Vietnam.

Webster Auditorium



Stellar's Sea Eagle
 Photo by Tim Laman

Crane and Steller's Sea Eagles. Less well known, though, are the vast numbers of wintering Siberian birds, a rich indigenous avifauna, migrant shorebirds, and pelagic birds. Your guide for the evening lived on the west coast of Honshu, Kysuhu, Hokkaido, and some smaller islands, and will provide practical birding and travel advice, as well as a tour of Japan's birds.

Webster Auditorium



Green Tree Snake
 Photo by Randy Babb



On the cover: Wilson's Warbler by Jim Burns
 Canon EOS 1DMark IV, Canon 600mm f/4 lens w/1.4x, 1/640 @ f/8
 Buenos Aires National Wildlife Refuge

President's Message

by Mark W. Larson



Mark W. Larson

Fall has vanquished the summer's heat and returned so many of our friends and family to the Valley of the Sun. Welcome back!

The months we wait for are upon us: Christmas Bird Counts, the Holiday Season, heavier traffic—no, not that one—winter rains, and snow on Four Peaks as the sun sets in the west. Most of the Neotropical species that nest in North America have returned to

warmer climes and species that winter here are arriving every day.

Speaking of Christmas Bird Counts, are you one of those who imagine that you need to be an expert to take part? In fact, one of the best ways to learn the birds is to tag along with skilled birders for a rewarding day in the field! You will not only see birds that don't visit your backyard, but you will learn about places to find birds that you didn't know existed. Everyone can contribute: maybe you will be the one person who spots that soaring eagle nobody else noticed! Look for the list of local CBCs in this issue of the *Wren-dition* and contact the leader of one near you to find out more about how you can participate.

As you can see in the descriptions, we have some outstanding programs planned for our monthly meetings at the Desert Botanical Garden. I encourage you to attend and bring a friend—it's free and open to anyone with an interest in the natural world. 🐦

From The Editor

by Emily Morris

I'm sure all of you understand me when I say that I am thrilled that the warm weather has started to abate, giving way to cooler days and even some chilly nights. And, with the cooler weather comes our winter birds! I love the possibilities that migration brings...maybe I'll see more than just Mallards today or I'll be joined by numerous Yellow-rumped Warblers on every bird walk.

We are lucky to call Phoenix our home during these perfect months, and should take full advantage of the great weather by trying to get out and enjoy it as much as possible. Winter is also the season for Christmas Bird Counts, so I suggest that all of you make it a goal to be a part of at least one of these fabulous examples of citizen science at its best. 🐦

The Financial State of the Chapter by Herb Fibel, Treasurer

Our bylaws state that we should publish a financial statement each year, so here goes. Our fiscal year runs from June 1st each year to May 31st. For the fiscal year which ended May 31, 2011, here is a summarized operating statement rounded off to the nearest hundred dollars:

Income

Dues share from National Audubon	6,300	28.6%
Friends memberships	5,800	26.4
Donations	4,800	21.8
Fundraising	2,500	11.4
Sales	1,700	7.7
Miscellaneous	1,000	4.5

Total Income

\$22,000

Expenditures

<i>Cactus Wren-dition</i>	12,700	65.8 %
Operating expenses	1,800	9.3
Insurance	1,800	9.3
Donation in lieu of rent*	1,000	5.2
Membership in other organizations	900	4.7
Miscellaneous	1,800	9.3

Total Expenditures

\$19,300

As you can see, our income for the last complete fiscal year exceeded our expenditures by approximately \$2,700. The exact figure was \$2,673.84. The asterisk (*) item is explained by the fact that we do not pay rent for the use of the facilities at the DBG for our meetings. Instead, we make an annual donation, and they kindly allow us to use their facilities for our meetings for free.

Our books and records are open for inspection by any member. If you have any questions, please feel free to call or e-mail me. My phone number and e-mail address are on the back page of the *Cactus Wren-dition*.

Notes & Announcements

Flagged Shorebirds

Although not common in our area, please be aware of color-flagged Hudsonian Godwits, Whimbrels, and any other shorebird species which you notice have color bands. You can contact Dave Krueper, Ass't. Nongame Migratory Bird Coordinator, US Fish and Wildlife Service, PO Box 1306, Albuquerque, NM 87103, (505) 248-6877 or dave_krueper@fws.gov

Unwanted Catalogs

Is your mailbox full of unwanted mail? Catalog works collaboratively with the catalog industry to embrace voluntary measures to reduce unwanted mail by honoring your mail preferences. Catalog Choice has become a significant consumer voice in the direct mail industry. Nearly 200 catalog mailers are participating in Catalog Choice, and this number grows every day. Please go to <http://www.catalogchoice.org/pages/merchants> to reduce the mailing of unwanted catalogs.

E-mail Alert System

Maricopa Audubon Society has established an e-mail alert system to notify members of upcoming events and activities. E-mail addresses were obtained from both the "Friends of Maricopa Audubon" roster and the National Audubon roster. There were several addresses that were returned, most likely because the e-mail addresses were not updated. If you would like to be included in or removed from this notification system, please let Laurie Nessel know at laurie@laurienessel.com. The list will only be used for the stated purpose and not sold or used for any other reason.

Birding Community E-Bulletin

A monthly bulletin with rare bird sightings and other birding information. If you would like to be put on the monthly emailing list please contact either Wayne Petersen (Director of the Massachusetts Important Bird Areas Program) at 718-259-2178 or wpetersen@massaudubon.org or Paul Baicich at 410-992-9736 or paul.baicich@verizon.net. They never sell the recipient list and you will receive a lot of interesting information.

Casa Del Caballo Blanco EcoLodge – Belize

A new six-cabana, eco-friendly accommodation in Belize - Casa del Caballo Blanco is a 23-acre former ranch 9.5 miles from the Guatemalan border near San Ignacio. It also shelters the not-for-profit Casa Avian Support Alliance (CASA) <http://www.casaavian.org/>. Its purpose is to understand and support the biodiversity of Belize that attracts and sustains over 530 species of migratory and resident birds spotted in a given year. Jodi and Vance Benté, owners of the property, also established The Alliance whose motto is: "Birds are the farmers of the world

- help us to help them continue to sow their seeds." Their work has been undertaken in cooperation with the Government of Belize's efforts to protect critical habitat, the loss of which threatens the avian population. Guests are invited to share in the responsibilities of supporting the avian program. They can assist in nest-box building, maintenance and feeding as well as trail building and signage. A percentage of each cabana rental will be donated to the CASA center to assist with medical and other expenses related to the management of the facility. Casa also organizes day-long tours that in addition to an educational and scientific focus can include bird-watching, horseback riding, cave tubing and visiting archeological and World Heritage Sites in Belize and Guatemala. For more information, call 707-974-4942 or visit www.casacaballoblanco.com.

Land of the Quetzal

Rich Kern and his brother, Jim, are looking for twenty partners to join us in the purchase of the 486 acre parcel, which is adjacent to Los Quetzales National Park and across the Savegre River from Los Santos National Preserve in Costa Rica. Preserving an important piece of quetzal habitat is a big part of our motivation in choosing the Savegre tract; the area is one of the best places to see this beautiful bird. Besides birds, it is also possible to see puma, ocelot, the little margay, jaguar and tapir. Half of the shares for the project have been spoken for. If you would like more information and a copy of the DVD please contact Rich Kern at kernnature@aol.com. (N.B. The Kern brothers project is independent from Audubon.)

Chapter discount onbird-friendly chocolate - what's not to love?

Audubon and Theo are pleased to announce the launch of their first co-branded chocolate bar.

Theo Chocolate is the first organic and fair trade certified bean-to-bar chocolate maker in the United States. Theo produces "origin" chocolates, which are identified by the cacao's growing region. Costa Rica was selected as the country of origin for Audubon chocolate because sustainable farming there protects Neotropical migratory bird habitat. Audubon's Licensing Department worked with our International Alliances Program in approving the farms from which our products are sourced. Theo proudly supports the mission of the National Audubon Society and its diligent work to conserve and restore natural ecosystems that benefit birds, other wildlife and their habitats.

Audubon's 91% cacao bar is a super dark and slightly bitter chocolate that appeals to the "serious chocolate aficionado". Additional products are in development for more mainstream chocolate lovers.

An article entitled "**Visitors from the Gulf**" by MAS member Charles Babbitt will be published in the January-February 2012 edition of *Arizona Wildlife Views*.

For Rent in Costa Rica

A 990 sq.ft. house with small yard on Wendy and Mark Bernstein's larger finca (farm), \$250 for only one month or longer. Or \$10 per night per person. In refreshing mountains near San Vito, close to Panama's border, on the way to La Amistad National Park. Utilities included and it is furnished with everything from sheets to pans, Queen orthopedic mattress, flat screen TV, dvd player, tico washing machine, refrigerator, convection oven, propane three-burner stove, wood oven, more. Chickens (eggs) with coop, Talamanca Mountains views, birds, bird trails, nature, country living, peace and quiet* included. We have a struggling greenhouse and you can share that produce, plus lots of free food out in the finca (from avocados to zapote). Bus service is a three minute walk. Excellent road. We use our cell phone as our modem for internet service; you might do something else. We can figure out cost if you want to include some meals, laundry, internet, rides... less for rent if you do not need furnishings. Better for one person or a couple although there can be more beds. Photos may be available. Our local phone in Costa Rica is 8867-8973 or markbaillaw@yahoo.com or reggaew@aol.com *The house is 24 feet from a tiny spur road serving four houses spread, so traffic is extremely light twice a day. It's really not a problem but we want to tell all!

Book Store Selections

We now have a selection of books on birding topics for adults and children alike. Remember that Friends of Maricopa Audubon members get a 10% discount and that your purchase helps to support our event, education and conservation efforts.

Arizona Watchable Wildlife Tourism Association (AWWTA)

Check out their website for events around the state—www.azwildlife.com

Museum of Northern Arizona

They sponsor Venture trips that explore and discover the Colorado Plateau in the Four Corners area. For more information contact Lisa Lamberson at 928-774-5211 x241 or llamberson@mna.mus.az.us.

Environmental Fund

Green At Work—Thousands of employees can now support Maricopa Audubon Society (MAS) in their annual fall charity campaign. The Environmental Fund for Arizona gets thousands of Arizona employees involved with our group and many other conservation groups through payroll deduction workplace

campaigns. Help spread the word at your office about checking off "Green" choices this fall! If your employer does not yet include environmental/conervation groups, please contact Laine Seton at the Environmental Fund for Arizona: efaz@efaz.org or (480) 510-5511.

The Dovetail Directory

(www.dovetailbirding.com): The Directory is an online catalogue of world birding tours, and our goal is to help birders locate that special birding tour, to any of 85 countries around the world. This is a free service. There are no hidden costs or surcharges. Tours are offered at the operators price. In addition to tours, the Directory also carries a comprehensive inventory of birding-related books. For your further convenience we maintain a North American, toll-free number (877) 881-1145, and someone will always be happy to take your call.

Shade-grown Coffee

If you are searching for a source to purchase shade-grown coffee and haven't been successful, try ABA Sales. They carry seven kinds of Song Bird Coffee. For information call 800-634-7736. Also, Trader Joe's carries shade grown coffee, as does Sunflower Market. Another source is Toucanet Coffee/Avian Ecologist. They are in the business of serving Smithsonian certified, bird-friendly coffee. All of their varieties are organic and shade grown. They also have fair trade varieties. Please visit www.toucanetcoffee.com for more information about their goals or to place an order. The website also includes an online community for bird and/or coffee lovers. They invite you to join. Another website for shade grown/organic coffee is www.cafebritt.com. An additional website is Thanksgiving Coffee Co—www.thanksgivingcoffee.com or 800-648-6491. And another from Kenn Kaufman is www.birdsandbeans.com

More Birding and Nature Festivals

www.americanbirding.org, and
www.birdinghotspot.com

SUBMISSIONS

Do you have an interesting story to tell about birding? Please forward your submissions to the Editor – Emily Morris. Check the back page for address/email. Attaching an article to an e-mail is the absolute easiest way to submit an article. Please send any pictures to complement your article directly to me as well. Remember, all articles may not be published the first month after receipt.



*Saturday & Sunday
November 12 & 13, 10am-4pm
Nina Mason Pulliam Rio Salado Audubon Center
5131 S Central Ave, Phoenix
(two miles south of downtown Phoenix)
Free Admission. Plus food, crafts,
children's activities, music and more!*

*gifts
from
nature*

Art Festival

*Art along the river.
Benefitting Audubon Arizona's
education and conservation programs.*

Allison Shock, Amanda Scheutzow, Arlene Powers, Carly Quinn, Christina Scherer, Dan Moore, Emily Long, En Chuen Soo, Farraday Newsome, Gene Swanstrom, Jacqueline Bernard, Joan Waters, Julie Hendrickson, Julius Forzano, Kevin Stevens, Maret Webb, Mary Lavan, Mary Mumaw, Nora Graf, Pam Harrison, Practical Art, Rebecca Rush Profeta, Sandy Blain, Sandy Luehrsen, Deb Rich, Sherrie Zeitlin, Tony Vehr, Vivian Stearns-Kohler, Wendy Goodman, Yolanda Hart

 **Audubon ARIZONA**

Maricopa Audubon Society Field Trips

Mike Plagens

DEC. 2011 – FEB. 2012

CAR POOLING: If you plan on driving yourself please organize your own carpool, consolidate vehicles at meeting places or contact leaders and other participants for car pooling. It is recommended that passengers reimburse drivers 10 cents per mile. Be courteous to the trip leader and help cover their gas costs.

Limit: Unless otherwise stated trips have a maximum number of participants. Please call ahead of time to make your reservations.

DIFFICULTY LEVELS 1 THROUGH 5: 1 equals very low level of exertion, short walking distance on level ground, considerable birding from vehicle and possible multiple birding stops. 5 equals very high level of difficulty with respect to exertion and terrain. Longer hiking distances are expected with possible steep trails. Trips are level 1 unless otherwise noted.

REMINDERS:

- Be courteous to the trip leaders and help cover their gas costs.
- Avoid wearing bright colors. Wear neutral colored clothing and sturdy walking shoes.
- Bring sunscreen, sunglasses, head protection and water.
- Always bring your binoculars. Bring a scope if recommended.
- Talk quietly or not at all so others can bird by ear.
- Unless stated otherwise, reservations are required.

***Day Passes Required for National Forests.** Many favorite spots in our National Forests now require Day Use Passes. You are responsible to acquire a day pass (\$6) in advance of field trips with an asterisk (*). Passes are available by phone or mail, at FS district and ranger offices, Big 5, some Circle Ks, the Shell station at Tom Darlington and Cave Creek Road and elsewhere. Visit <http://www.fs.fed.us/r3/tonto/tp/where.shtml> for more information.

Michael Plagens, field trip coordinator, has initiated a **Facebook Page**. Use the search engine to find "**Central Arizona Nature Clubs**". Or use: <http://www.facebook.com/groups/188713881196421/> Select "Join Group" to continue. Members will be able to share information about upcoming field trips or to arrange their own trips and share the with other members.

Saturday, December 3rd

Chandler Veterans Oasis Park.

NE corner of Chandler Heights and Lindsay Rds. Meet 8 AM at the Red-tailed Hawk Ramada just east of the Environmental Education Center. The main birds here are waders, ducks and other pond lovers. Bring water; a scope can be helpful. Difficulty level: 1-2 (slight slopes in a couple spots). No reservations required.

Leader: Myron Scott at (480) 968-2179 or gaia_3@netzero.net

Saturday, December 10th

Northsight Park, Scottsdale. An OVENBIRD was found at this small park in late Sept., 2011. Could this be a migrant trap? We will begin a birding trip from this north Scottsdale location visiting other nearby areas as time permits. We'll see many common urban and desert birds and might just find some rarities. The leader will carefully point out and describe the important identifying characteristics of the birds making this an excellent choice for novices. Begin 7:00 AM and finish before 11:00 AM. Limit 12. Reservations required. Difficulty 1

Leader: Brian Ison (info & reservations w/Mike, mjplagens@arizonensis.org /602-459-5224).

Sunday, January 8th

West Side. We'll start about 6:45 from the East Side, and head to either the Tres Rios area or the Glendale Recharge Ponds, depending on the then current site conditions and birds. While this trip focuses on water birds, there are usually some lovely surprises with raptors and passerines. We'll

wrap up by noon back on the East Side. Limit 8. Reservations required. Difficulty 1. Meeting place and carpooling logistics will be determined a few days before the trip.

Leader: Kathe Anderson (Info & reservations: kathe.coot@cox.net)

Sunday, January 15th

Gilbert Water Ranch. a water treatment facility that attracts wintering water-fowl, shorebirds and resident and wintering passerines. Limit 10. Reservations required. Difficulty 1

Leader: Cindy West (info & reservations w/Mike, mjplagens@arizonensis.org /602-459-5224).

Saturday, January 21st

Rio Salado. Meet at 8:00 AM by the front doors of the Pulliam Audubon Center, 3131 S. Central, Phoenix (southeast side of Central Bridge over Salt River). We'll bird both banks of the Central Avenue section of Rio Salado, check the ponds and river to 7th Ave. and possibly drive to any other sections of note. Target end time: 10:30 A.M.. Difficulty: 1-2: Easy with a couple of gradual slopes. Closed toed shoes recommended, water and sun protection. No reservations.

Leader: Myron Scott at (480) 968-2179 or gaia_3@netzero.net

Sunday, January 22nd

Chandler Veterans Oasis Park Walk With A Naturalist

The habitats at Veterans Oasis Park are a haven for a variety of wildlife. Enjoy a guided walk that explores the plants and animals of the park's desert and wetland habitats. Bring water, wear good walking shoes, a hat, and bring close-focus binoculars if you have them. The walks are not fast-paced and the terrain is easy. There is a suggested \$5 donation to the Chandler Environmental Education Center. Veterans Oasis Park is on the northeast corner of Lindsay and Chandler Heights Rds. 9 to 11 am starting at the Red-Tailed Hawk Pavilion.

Leader: Laurie Nessel at

(480) 968-5614 or
laurienessel@gmail.com

Saturday, February 4th

Santa Cruz Flats

Leader: Mark Larson at
(480) 474-4439 or
larsonwarren@gmail.com

Monday, February 6th

Fountain Hills Lake and Box

Bar Ranch. We'll start about 7:15 in Fountain Hills, check the water birds at the lake, then head to Box Bar Ranch along the Rio Verde with the hope of seeing nesting bald eagles and a variety of desert species. We'll wrap up about noon in Fountain Hills. Limit 8. Reservations required. Difficulty 1-2. Meeting place and carpooling logistics will be determined a few days before the trip.

Leader: Kathe Anderson (Info & reservations: kathe.coot@cox.net)

Saturday, February 18th

Buckeye Thrasher Site. Meet 6:30-6:50 A.M. at the Waffle House, 820 N. Dysart Rd., Goodyear (just south of I-10 Exit 129). (Come earlier if you want breakfast, because we will leave for the site promptly at 6:50 AM. Car pool to the site on west side of Baseline Rd. and Salome Hwy. (or join us at the site at approximately 7:15 AM): I-10 Exit 112 south 3.5 mi. on SR 85, then west on Baseline (at "Fertizona" tanks) 8.5 mi. Possible species include singing LeConte's and four other thrashers, sage sparrows and raptors. No reservations.

Leader: Myron Scott at (480) 968-2179 or gaia_3@netzero.net

Saturday, February 25th

Lower Salt River. Join us for our long-standing and reputable ten-mile drive (with stops) along the Salt River between Granite Reef Dam and Saguaro Lake. This is traditionally a favorite field trip area with sightings of waterfowl like Ruddy Duck, Common Gallinule, and Bufflehead; and raptors, including Bald Eagle, Osprey, and Northern Harrier. Land birds commonly seen

are Vermilion Flycatcher, Loggerhead Shrike, Phainopepla, and Black-tailed Gnatcatcher. A day's list of 50 or more species is customary. Parking lots require the Tonto National Forest day-use pass; advance purchase is recommended. Bring a lunch and a scope if available. We will meet at 7:00 AM in the Walgreen's parking lot on the southeast corner of McKellips and Power Roads. Limit 15. Difficulty 1. Reservations required.

Leader: Richard Kaiser at (602) 276-3312 or Rkaiserinaz@aol.com

Sunday, February 26th

Chandler Veterans Oasis Park Walk With A Naturalist

The habitats at Veterans Oasis Park are a haven for a variety of wildlife. Enjoy a guided walk that explores the plants and animals of the park's desert and wetland habitats. Bring water, wear good walking shoes, a hat, and bring close-focus binoculars if you have them. The walks are not fast-paced and the terrain is easy. There is a suggested \$5 donation to the Chandler Environmental Education Center. Veterans Oasis Park is on the northeast corner of Lindsay and Chandler Heights Rds. 9 to 11 AM starting at the Red-tailed Hawk Pavilion.

Leader: Laurie Nessel at
(480) 968-5614 or
laurienessel@gmail.com

Wednesday, February 29th

Pinal Creek and Haunted

Canyon: There's an extra day in 2012 so why not use it to go birding? This rather hidden location is accessed through a vast mining area west of Miami, Arizona. Rare bird sightings are possible or we may just encounter a lot of solitude in this eastern extension of the Superstition Mountains. Meet 6:00 AM for carpooling. Wear sturdy shoes and bring a light lunch. Finish by 3:00 PM. Contact the leader for additional information and reservations. Difficulty 2

Leader: Mike Plagens

mjplagens@arizonensis.org or
602-459-5224

FIELD TRIP REPORTS

Saturday, Aug. 6th, 2011

by Michael Plagens

A handful of Audubon members ascended Mt. Ord in eastern Maricopa County to look for montane bird species that are rare through most of the rest of the county. The monsoon season had been nearly dispersed up until this date and we found conditions on the mountain mostly dry. Birds were very silent, apparently hanging low until and if the summer rains kicked in.

Nonetheless we turned up several of the sought after species including



Clem Titzck enjoys warm sunshine and cool mountain breezes at the summit of Mt. Ord.

Grace's Warbler, Painted Redstart, Pygmy Nuthatch, and Greater Pewee. We also reveled in pleasantly cool temperatures amid the pines and firs and almost no one else around. Clem Titzck, past Maricopa Audubon president, hiked the full mile from the gate up to the fire tower, a clear demonstration that bird watching can be a rewarding part of a healthy life style! 🐦

You, Too, Can Become A Citizen Scientist!

by Gillian Rice

Two thousand monarchs swirl above the tree canopy and swoop into golden fields of native *Bidens*. The dew is thick; the flowers fresh. At Baker Wetlands in Kansas where the leading edge of monarch migration has just arrived, Gail Morris watches.

"They're just everywhere - amazing! We can tag 40 monarchs in under an hour! We can reach out just with our fingers and pick them up to tag," Morris enthuses. "Look at the yellow on their feet. Pollen covers their feet. Butterflies are, indeed, pollinators!"

Defining citizen science

A former Pastoral Associate, Morris is a Monarch Watch Conservation Specialist and citizen scientist who now devotes her time to monarch research and conservation. A citizen scientist is a volunteer who collects and/or processes data as part of a scientific inquiry. Professional scientists train citizen scientists,

“Monarch scientists want to educate citizen scientists around the country to help save the monarch butterfly migration.”

design protocols for them to follow, analyze data, and publish reports. Most projects today involve regular feedback to citizen scientists, including access to online databases, interactive graphs and maps, and newsletters focusing on the most important results.

Citizen science is not new. Charles Darwin sailed on the *Beagle*, not as a professional naturalist, but as an unpaid companion to Captain Robert Fitzroy. Citizen scientists have been collecting weather data for over 200 years. In 1874, the British government funded the Transit of Venus project to measure the Earth's distance to the Sun. The project engaged the



Monarch butterfly caterpillar
Photo by Gail Morris

admiralty to collect data worldwide and recruited the services of the most prominent amateur astronomers of Victorian times.

There is a long history of lay interest in insects: the field notes of Victorian collectors have made vital contributions to our understanding of butterfly range, behavior, and abundance; Bird monitoring in Europe dates back to 1749 when amateurs in Finland collected data on the timing of migration; and The North American Christmas Bird Count was launched in 1900.

In natural history, observational skills can be more critical than expensive equipment and there will always be a role for the citizen scientist. Today's citizen science differs from its historical counterpart in that it is now an activity potentially available to all, and not merely to a privileged few.

Citizen scientists participate in projects on climate change, invasive species, conservation biology, population ecology, and monitoring of all kinds. For instance, they have tracked the extent of range expansion by the Eurasian Collared-dove across North America.

Citizen science appears particularly effective at finding rare organisms, including new, invasive organisms and disappearing native species. One example is The Lost Ladybug Project, which charts the distribution

and decline of ladybug species across North America.

Technological change is significant in the proliferation of citizen science projects. Sophisticated Internet applications use crowd sourcing for data collection over large geographic regions; projects involve online discussions among participants. CyberTracker software for Smartphones or handheld computers, developed and used in Southern Africa to enable non-literate trackers belonging to traditional Khoi-San communities to record animal signs, is used in citizen science projects worldwide.

Simple protocols and training are essential

Collecting huge amounts of ad hoc observations from people does not necessarily deliver good science. Scientists who use citizen-collected data often must defend the quality of the data. The core principle of citizen science data collection, then, is the use of very simple standardized protocols replicated across large spatial extents and/or temporal scales. Easy-to-follow instructions that can be modified based on volunteer feedback are critical, as is training on observation.

Studies of volunteer-based monitoring programs reveal that participants become better observers over time as people get more familiar

with protocols and improve their identification skills. Research also suggests that long, arduous or repetitive tasks, complex methods, or difficult taxonomic identifications are unsuitable for citizen scientists.

"I had an epiphany when I watched birders checking identification guides to try to figure out which species they were holding in their hands ready for banding," says Tice Supplee of Audubon Arizona. "Female hummingbirds are especially challenging to identify. We're developing a protocol for monitoring at the new pollinator garden at the Audubon Center. Volunteers will record the activities of male hummingbirds, and only of female hummers when they are absolutely certain of that female's identity."

Supplee helped train volunteers for the Hummingbird Monitoring Network, and volunteers at Boyce Thompson Arboretum, an Important Bird Area, are conducting a feeder watch using that training. The current protocol is that the volunteers remove all but one of the hummingbird feeders at the Arboretum. They then observe the remaining feeder for one hour and record the number of hummingbirds that visit. "We want to know whether a site can be scientifically useful," explains Supplee. "We need to find out if a site has enough birds to be a banding and monitoring station."

Data validation is an integral component of citizen science projects. Applications developed for Cornell Laboratory of Ornithology's eBird and Project FeederWatch use more than 600 geographic and numeric data

quality filters, which allow rapid data review and electronic communication with observers to validate questionable observations.

Education is a critical part of citizen science

Citizen science often combines research, education, community development, and conservation outcomes. Monarch scientists want to educate citizen scientists around the country to help save the monarch butterfly migration. This year, Gail Morris volunteered at Monarch Watch at the University of Kansas. "Dr. Chip Taylor led us through a crash course on monarch biology and conservation," says Morris. "Little did we ever expect four full days of his time explaining, field trips, and his incredible patience breaking open our experiences - we were dreaming monarchs for days!" She adds: "Dr. Taylor invited me to be a resource to everyone in Arizona and the west to grow a better understanding of monarch biology and help create and conserve habitats."

Cornell Laboratory of Ornithology's Nestwatch teaches people about bird breeding biology and engages them in collecting and submitting nest records. Records include information about nest site location, habitat, species, and number of eggs, young, and fledglings. Participants submit nest records to an online database where their observations are compiled with those of other participants to understand and manage the impacts of environmental change on bird populations. These kinds of citizen science projects are designed to be experiential education. Several studies of the Cornell Lab's projects

have found that participants increase their knowledge about biology and natural history, their engagement in the process of inquisitive thinking, and their ability to frame questions scientifically.

Conservation is a project benefit

Citizen science also has the potential to increase environmental stewardship by citizen scientists because of their active participation in research. "The decline in the number of monarch butterflies is alarming," says Morris. "Scientists know an increase of habitat is necessary for monarch survival. I have learned how important monarch conservation is. I saw that government agencies were losing funding for conservation efforts and decided to dedicate my time to promoting monarch waystations and raising awareness of monarch conservation around Arizona." Morris volunteers with the Monarch Larva Monitoring Project and monitors two sites

in Phoenix; she also sends monarch observations to Journey North. She tags for the Southwest Monarch Study and collects specimens for Monarch Health. She has become a trainer and educator and presents workshops for children and adults.

Morris harvests milkweed seeds (milkweed is the monarch's host plant). "I donate them to anyone who will grow them. I work with county Master Gardeners to grow milkweed for city libraries or parks," she explains. "I always bring a few milkweed plants at any talk to give away." Morris has become a citizen scientist working in a so-called adaptive management framework—she not only collects data but, when she plants and promotes the planting of milkweed, is intervening in ecosystems by manipulating habitats. Researchers argue that for large-scale projects, such an



Nectaring monarch butterfly
Photo by Gail Morris



Tagged monarch butterfly
Photo by Gail Morris

You, Too, Can Become A Citizen Scientist! (cont.)



*Pollen grains on the feet and legs of monarchs
Photo by Gail Morris*

adaptive management approach could have powerful ecological and social impacts.

Join the ranks of the citizen scientists

"We are looking for volunteers," says Supplee, who with Audubon colleague Cathy Wise is working in conjunction with the National Phenology Network to monitor hummingbirds and insects at Audubon's new pollinator garden. "We'll also have walk-around surveys," adds Supplee. "We'll record what the hummingbirds are feeding on. The National Phenology Network database will then include the hummingbird species and plants that occur in Arizona."

If you would like to volunteer to help monitor hummingbirds at the Audubon

Center, please contact Emily Morris emorris@audubon.org or Cathy Wise cwise@audubon.org.

Gail Morris urges: "Anyone and everyone is welcome to join me anytime. Let me know when you see monarch butterflies around the state! As avid nature watchers, you may see a monarch flying around while you are photographing or watching other species. If you can let me know where you see them, we can explore habitats where they visit and see how we can help protect their flyways. You can also grow Monarch Waystations in your own yards and encourage your place of work, neighborhood school or church to do the same. Growing milkweed (several kinds grow well here) and good nectar plants will draw monarchs, butterflies and other pollinators to your yard. My blog, Monarchs in the Desert, offers planting information for our Sonoran Desert. I encourage you to certify your site as a Monarch Waystation with Monarch Watch and consider a sign to encourage others to do so too."

Yet another way to be a citizen scientist is to join the Christmas Bird Count. See details in this issue of the Wrendition. 🐦



Students from Audubon Arizona's Camp Audubon Adventures look closely at desert milkweed for signs of monarchs and other pollinators.

USEFUL WEBSITES TO GET YOU STARTED AS A CITIZEN SCIENTIST

www.learner.org/jnorth

Journey North engages K-12 students who record and share their field observations in a global study of wildlife migration and seasonal change.

<http://monarchsinthedesert.blogspot.com>
Blog by citizen scientist Gail Morris.

www.monarchwatch.org/waystations

Certify your site as a Monarch Waystation.

www.swmonarchs.org

Study of migration patterns of Monarch Butterflies in Arizona.

<http://monarchparasites.org>

Project Monarch Health at the University of Georgia.

<http://cybertracker.org>

Free software for gps field data collection.

www.birds.cornell.edu/citsci/projects

Listing of the citizen science projects at The Cornell Lab of Ornithology.

www.lostladybug.org

Project to find out where all the ladybugs have gone to prevent more native species from becoming so rare.

<http://neoninc.org/budburst/>

Monitor plant phenology (phenology records reveal plant and animal responses to climate change).

www.usanpn.org

National Phenology Network.

<http://ebird.org>

A real-time, online checklist program, eBird provides rich data sources for basic information on bird abundance and distribution at a variety of spatial and temporal scales.

http://www.azgfd.gov/w_c/boxturtlewatch.shtml

Ornate Box Turtle Watch in Arizona

FURTHER READING

Cooper, C.B., Dickinson, J., Phillips, T. and Bonney, R. 2007. "Citizen Science as a Tool for Conservation in Residential Ecosystems." *Ecology and Society*. 12 (2): 11-21.

Dickinson, J. L., Zuckerberg, B., and Bonter, D.N. 2010. "Citizen Science as an Ecological Research Tool: Challenges and Benefits." *Annu. Rev. Ecol. Evol. Syst.* 41: 149-72.

Arizona Christmas Bird Count Schedule 2011-2012

by Walter Thurber

FThe National Audubon Society has conducted Christmas bird counts since 1900. Volunteers from across North America and beyond will take to the field during one calendar day between December 14 and January 5 to record every bird species and individual bird encountered within a designated 15-mile diameter circle. These records now comprise an extensive ornithological database that enables monitoring of winter bird populations and the overall health of the environment.

Participants are typically assigned to teams based on their bird identification skill level and endurance. Many counts hold a compilation dinner at the end of the day where results are tabulated and stories shared. A \$5.00 participation fee defrays a portion of the cost of tabulating and publishing the overall count results. Help is needed on most of these counts, so find one or more of interest to you and contact the compiler for information.

Date	Day	Count Name	Compiler	Phone	Email*
12/14	We	Salt Verde River	Kurt Radamaker	480-837-2446	kurtrad@mexicobirding.com
12/15	Th	Patagonia	Abbie Zeltzer	520-604-6320	amindajar@gmail.com
12/15	Th	Pipe Spring NM	Andrea Bornemeier	928-643-7105	andrea_bornemeier@nps.gov
12/16	Fr	Buenos Aires NWR	Bonnie Swarbrick	520-823-4251	bonnie_swarbrick@fws.gov
12/16	Fr	Saint David	Tom Wood	520-432-1388	tom@sabo.org
12/17	Sa	Ajo-Cabeza Prieta NWR	Kim Veverka	520-387-4987	kim_everka@fws.gov
12/17	Sa	Avra Valley	Mary Lou Cole	520-578-0114	birdingnana@msn.com
12/17	Sa	Mormon Lake	Elaine Morrall	928-526-1022	morrall.em@gmail.com
12/17	Sa	Nogales	Michael Bissontz	520-577-8778	seetrogon@comcast.net
12/17	Sa	Payson	Dave Hallock	303-258-3672	eldoradh@rmi.net
12/17	Sa	Ramsey Canyon	Ted Mouras	520-803-0221	tedmouras@mindspring.com
12/17	Sa	Santa Catalina Mountains	Bob Bates	520-296-5629	batesd@cox.net
12/17	Sa	Timber Mesa	Mary Ellen Bittorf	928-367-2462	maryellen12@cableone.net
12/18	Su	Chino Valley	Russell Duerksen	928-636-4916	duerksen@msn.com
12/18	Su	Hassayampa River	Vanessa Montgomery	623-465-0012	hassayampacbc@hotmail.com
12/18	Su	Jerome	Julie Wills	928-300-9775	jwills282@hotmail.com
12/18	Su	Tucson Valley	Larry Liese	520-743-3520	larryliese@prodigy.net
12/19	Mo	Elfrida	Tom Wood	520-432-1388	tom@sabo.org
12/19	Mo	Phoenix-Tres Rios	David Powell	602-441-5508	vireo@vireos.com
12/21	We	Prescott	Carl Tomoff	928-778-2626	ctomoff@prescott.edu
12/26	Mo	Superior	Cynthia Donald	480-283-4515	planres@earthlink.net
12/28	We	Bill Williams Delta	Kathleen Blair	928-667-4144	kathleen_blair@fws.gov
12/28	We	Gila River	Troy Corman	602-482-6187	aplomado@cox.net
12/28	We	Green Valley-Madera Canyon	Jeff Gilligan	520-399-0773	jeffgill@teleport.com
12/29	Th	Havasui NWR	DeeDee DeLorenzo	928-758-2707	poncho@citlink.net
12/30	Fr	Dudleyville	Doug Jenness	520-909-1529	d_jenness@hotmail.com
12/31	Sa	Appleton-Whittell	Robert Weissler	520-803-0794	weissler@aves.org
12/31	Sa	Flagstaff-Mount Elden	Terry Blows	928-774-8028	terence.blows@nau.edu
12/31	Sa	Martinez Lake-Yuma	Henry Detwiler	928-210-6474	henrydetwiler@earthlink.net
12/31	Sa	Portal	Jackie Lewis	520-558-2287	winjac12@vtc.net
1/1	Su	Sedona	Dottie Hook	928-254-8705	dottiehook1@aol.com
1/2	Mo	Camp Verde	Bea Cooley	928-526-5069	bea.cooley@gmail.com
1/2	Mo	Carefree	Walter Thurber	480-483-6450	wathurber@cox.net
1/3	Tu	Glen Canyon	John Spence	928-608-6267	john_spence@nps.gov
Unknown		Atascosa Highlands	Rich Hoyer	520-325-5310	birdernaturalist@me.com

Nearby New Mexico Count

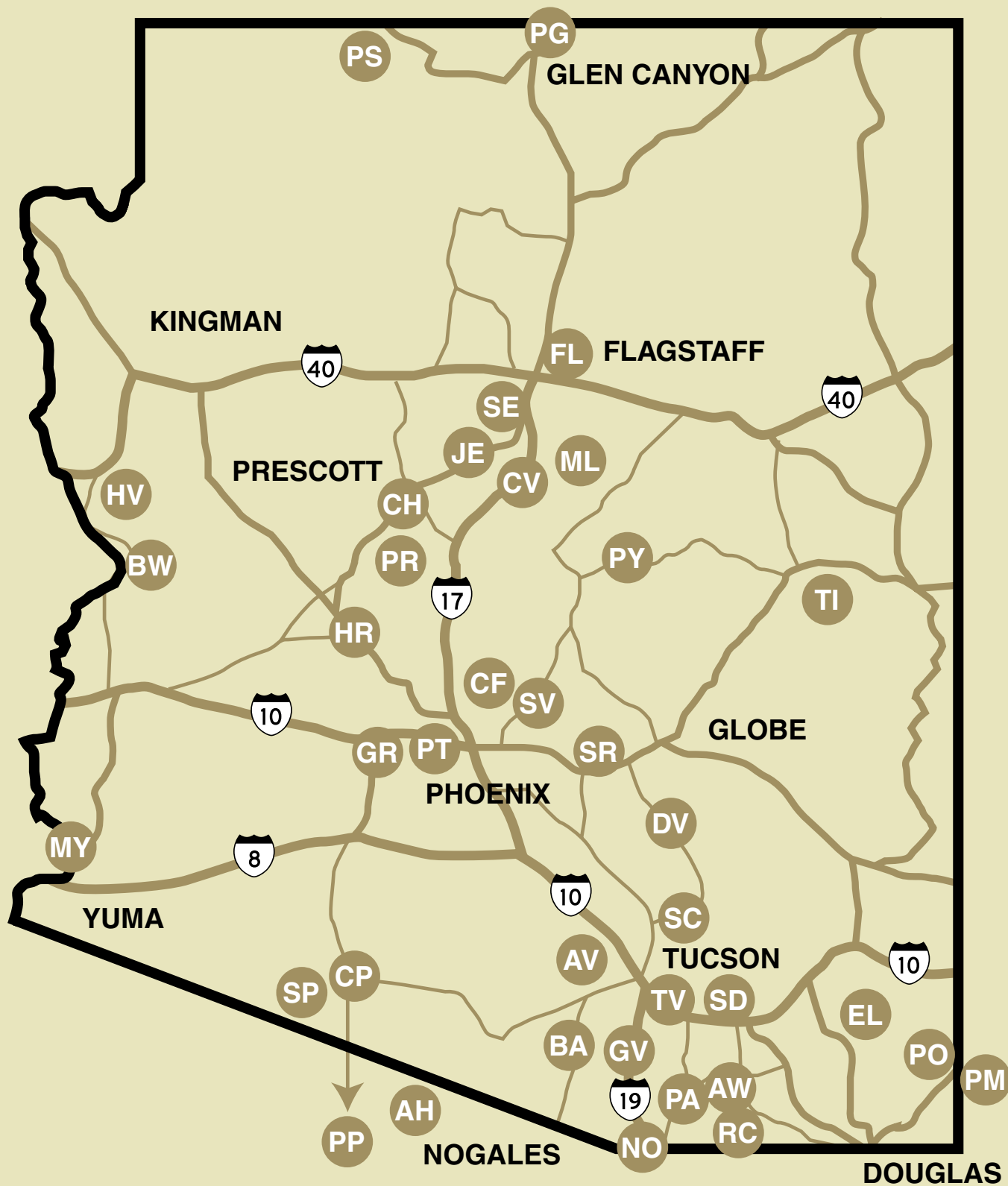
1/1	Su	Peloncillo Mountains	Nicholas Pederson	505-417-8665	npederson4088@hotmail.com
-----	----	----------------------	-------------------	--------------	---------------------------

Issued 10/6/11

Christmas Bird Count Map



cbc map



Devil's Canyon As Seen By The Camera

by Bob Witzeman



This rare Sonoran Desert riparian treasure will be dewatered and destroyed by special legislation being promoted by Arizona's U.S. Representative Paul Gosar (R) of Flagstaff and Arizona Senator John McCain (R). That legislation would essentially exempt two foreign mining companies from U.S. environmental, cultural and religious protection laws.

Photo by Sky Jacobs

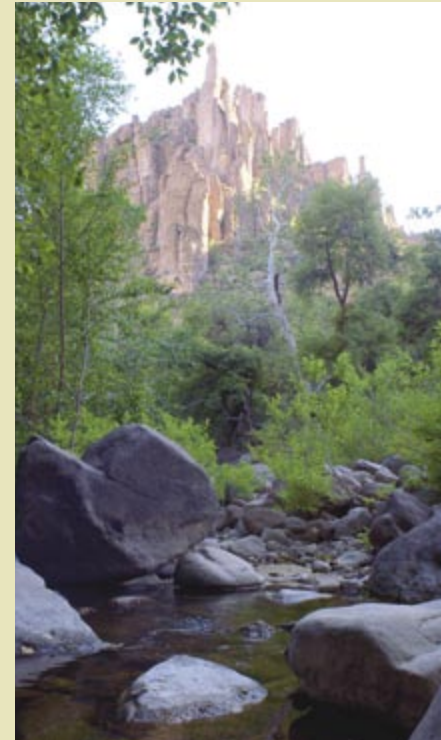
“In every walk with nature, one receives far more than one seeks.”

— John Muir (1838-1914)

Featured are photos of the Devil's Canyon Sonoran Desert riparian area. It is called Gaan Canyon by the Apache and possesses sacred significance. This unique Sonoran riparian ecosystem just east of Globe, Arizona is under threat by two of the world's largest mining companies, presently headquartered in Australia. Proposed Oak Flat congressional land exchange legislation would obliterate some 2400 acres of U.S. Forest Service land. The proposed legislation would exempt the Resolution Copper mine from various key provisions of U.S. environmental and Native American cultural protection laws.

These photographs are the work of Elias Butler, Sky

Jacobs, Lisa Fitzner, and Charles Babbitt. Elias Butler is the son of Carolina Butler, a distinguished Scottsdale resident and activist well recognized for her efforts to protect the Ft. McDowell Native American



Deceptively, Senators McCain and Kyl and Representative Gosar tout their congressional land swap as jobs creation. In fact, studies prior to the market jobs crash reported it would produce at best only 450 jobs (Arizona Republic), and 400 jobs in a report by a respected international "headhunter" (the Bernard Hodes Group).

Photo by Elias Butler



This Devil's Canyon riparian habitat and water table would be dewatered and physically obliterated by Resolution's "block cave" total ore body extraction. The mine hole would measure a mile across and sink a hole deeper than the height to the top floor of the Empire State Building. So anti-environmental is the proposed Gosar/McCain legislation, that the USFS Oak Flat Campground and its adjacent USFS lands would become studded with multiple drilling rigs many months before completion of the Environmental Impact Statement, and before completion of vital Native American cultural and religious protection reviews.

Photo by Lisa Fitzner

community from a proposed federal dam. It would have obliterated the Ft. McDowell Yavapai homeland as well as an irreplaceable stretch of Verde River riparian ecosystem. Elias' compelling website (eliasbutler.com) modestly describes him as "a backcountry guide, photographer (e.g. Arizona Highways) and writer living in flagstaff, AZ."

Conservationists in Arizona have long known Sky Jacob's father, Lynn Jacobs, a legendary conservationist recognized for his efforts to protect

Devil's Canyon As Seen By The Camera (cont.)

the big sit!



Panorama of the magnificent Devil's Canyon cottonwood, willow, ash, alder, walnut riparian ribbon-of-life now facing obliteration at the hands of these two British/Australian mining giants. They have a reputation for horrendous environmental and human rights records worldwide.

Photo by Charles Babbitt

Arizona's public grasslands from livestock grazing abuses. Sky's naturalist roots at protecting the natural world are well documented on his website (skyjacobs.com). He has comprehensively inventoried and photographed the unique riparian biota and landscape of the Sonoran Desert Devil's Canyon ecosystem for MAS.

Lisa Fitzner, our esteemed MAS Publicity Chair, is formerly a biologist with the State of Washington Department of Natural Resources. She and her teen-aged son inventoried and provided photographic documentation of Devil's Canyon and its flora and fauna for MAS. And we all know and love Charles Babbitt one of our highly esteemed chapter past presidents. His leadership and tenure at the helm of the chapter will be remembered with fondest regards. 🐦

The Big Sit! and Getting Old

by Herb Fibel, Treasurer

We're all getting older, but some of us are getting old. Whenever I look at the obituaries, and I do frequently to make sure I'm not in there, and I see a person who has passed away who was over 75, my thought is: "Well, he or she lived a full life." On the other hand, when someone 57 passes away, I think: "He or she was taken too soon." Speaking of getting old, I recently realized that I had not seen a Lucy's warbler in a long time and I pondered what had become of them. Then it dawned on me that probably they're still around in moderate abundance in the summer, but I've just been mistaking them for slightly larger than average verdins.

This is why, for the Maricopa Audubon Kathryn F. Anderson Granite Reef Asterisk's

Big Sits! I rely on the younger eyes and ears of the likes of Kathe Anderson, Tom and Rosalinda Partel, Adam and Phyllis Martin, Cynthia Donald, and Pete Moulton, to help build a credible and significant list of sightings each year. I am the organizer, but frankly my contributions to the sightings lists are usually minimal.

I'm writing this before our scheduled 16th annual Big Sit! on October 9th, but you will be reading it well after the fact. Statistically up to this point we've recorded a cumulative total of 134 species tallied by the observers from within the 17-foot diameter circle by the Granite Reef Reservoir in the Granite Reef Recreation Area across from Red Mountain. Heretofore, in any particular year our sighting numbers have ranged from a low of 47 species to an all-time high of 71 species for the day. It's hard to believe, but our cumulative tally includes such oddities as Common Loon, Wood Duck, Virginia Rail, California Gull, Forster's Tern, Vaux's Swift, Steller's Jay, Mountain Chickadee, Red-Breasted Nuthatch, Brown Creeper, and Bay-Breasted Warbler!

We regret that there can not be more tallyers in the circle, but crowding in eight people, their seats, scopes, a picnic table, and a barbecue grill, is pushing the space limits of this particular Big Sit! circle.

So how can you be a part of this



(from l to r) Adam Martin, Cynthia Donald, Pete Moulton, and Herb Fibel.

exciting annual birding event, you ask? There are several ways. You can stop by and encourage us. You can make a cash contribution by pledging either a specific amount or a per species identified pledge. In either case you will be billed by me after the event. All proceeds go to the environmental causes of the Maricopa Audubon Society, and are tax deductible. Just let me know. My name, phone number, e-mail address, and street address are on the back of the *Cactus Wrendition*.

The Big Sit! was started about 18 years ago by the New Haven Bird Club, and is now sponsored by *Bird Watcher's Digest* and Swarovski. This year and in the future people will be turning out all over the U.S. and the world, for that matter, on the second Sunday in October to do a Big Sit! If you would like to register your own circle, contact *Bird Watcher's Digest*.

Finally, I promised last year any commercial enterprise that sponsored our Big Sit! for at least \$25 would be named in a future *Cactus Wrendition*. In 2010 we had two such sponsors—Gold Bar Espresso, 3141 S. McClintock Dr., Tempe, and Eye 4 Art, Tempe, at www.eye4art.net.



(from l to r) Herb Fibel, Cynthia Donald, Pete Moulton and Ken Howe (dec'd).

Nature through the Artist's Eye: Arlene Powers

arlene powers



"Elegance" - Watercolor

Being passionate about birds,

I started to draw and paint in order to express my love for these beautiful, intelligent creatures.

As a parrot flock's cleaning woman, jungle gym, cook, provider and slave, I want to be able to share this crazy, joyful obsession with others

through my art. My artwork is the result of studying drawing and painting at Glendale Community College (GCC)

since August, 2004. In addition, I am a juried member of the Arizona Watercolor

Association (AWA), member of Arizona Artists Guild, and a juried member of the Arizona Art Alliance. My paintings and drawings have been shown in exhibitions sponsored by AWA, AWA National, AAA, GCC, Glendale Arts Council, the Arizona State Fair, Brio, and the Chancellor of Maricopa Community Colleges. Several of my artworks have been donated to Liberty Wildlife, the Save the Blues Bird Endowment, the Phoenix Zoo, Armonia, the Oasis Sanctuary, and the Loro Parque Foundation.

As a wildlife rehabber, I see the effect society has on our shrinking native wildlife populations, slowly robbing them of their environment. My artwork gives me a chance to express the beauty of these feathered, furred and scaled treasures. My hope is that when people see my paintings or drawings, they will fall in love, join me, and take a walk on the wild side. There is much work to be done to ensure

that these lives entrusted into our keeping are cared for properly and that native creatures have a place to live wild and free.



"Where's Mine?" - Watercolor



"Eagle With Attitude" - Charcoal



"Release" - Watercolor



"Whoooooo R U ?" - Watercolor, Colored Pencil, Ink



Time-dated material; do not delay!

miscellaneous

Monthly Meeting

First Tuesday of the month, unless otherwise announced, September through April, 7:30 p.m. Our meeting place is Dorrance Hall or Webster Auditorium, at the Desert Botanical Garden (DBG), except for our annual banquet in May, the location to be announced. The DBG is located at 1201 N. Galvin Parkway, Phoenix, Arizona. This is approximately 1/4 mile north of the Phoenix Zoo. For a map, please see the DBG website at www.dbg.org/.

Dorrance Hall is located just off the main parking lot and entry to the DBG. Webster is in the far southeast side of the gardens. Please contact a board member if you have any questions, or check out our web site at www.maricopa-audubon.org. Pre-meeting dinners (September through April) are held at Rolling Hills 19th Tee Restaurant, 1405 N. Mill Avenue, starting at 6:00 p.m.

Membership Information

There are two ways to become a Maricopa Audubon member and to receive the *Cactus Wren*dition by mail:

1. By joining the National Audubon Society. If you live in the Phoenix metro area generally east of 43rd Avenue, or in the East Valley other than in Gilbert or Chandler, when National Audubon Society receives your check made payable to National Audubon Society and your membership application, you will be assigned to Maricopa Audubon Society, or you can send your check payable to National Audubon Society and your National Audubon Society membership application to Scott Burge, membership chair, and he will send it on in to National Audubon for you, or
2. By becoming a "Friend of Maricopa Audubon". In this case you will become a member of Maricopa Audubon Society only, and you will not receive the Audubon magazine or any of the other "benefits" of National Audubon membership, but you will receive a one-year subscription to the *Cactus Wren*dition. "Friends" contribution categories are: Anna's Hummingbird-\$20; Verdin-\$35-\$99; LeConte's Thrasher-\$100-\$249; Cactus Wren-\$250-\$999; Harris's Hawk-\$1,000-\$9,999 and California Condor-\$10,000+. Mail your Friends membership application and your check made payable to Maricopa Audubon to Scott Burge, membership chair. All "Friends" members receive certain designated discounts. (If you reside outside the above-indicated geographical area, the only way to receive a subscription to the *Cactus Wren*dition is to become a "Friend".) For National Audubon membership address changes or other questions call (800) 274-4201 or e-mail CHADD@audubon.org. For all other membership questions call or e-mail Scott Burge.

Submissions

Copy for *The Cactus Wren*dition must be received by the editor by e-mail, by January 15, April 1, July 1, and October 1. Articles not received by the deadlines may not appear in the upcoming issue. E-mail to: The Cactus Wren*dition Editor, Emily Morris: monarchmorris@gmail.com

Opinions

The opinions expressed by authors in this newsletter do not necessarily reflect the policy of the National Audubon Society or the Maricopa Audubon Society.

Reprinting of material

Unless stated explicitly in the article, material in *The Cactus Wren*dition may be reprinted on other newsletters as long as the material is credited to the original author and to *The Cactus Wren*dition.

This publication is printed on recycled paper.



Maricopa Audubon Board

PRESIDENT

Mark Larson

13585 N. 92nd Pl.
Scottsdale, AZ 85260-4333
Home: 480 474-4439
Cell: 480 310-3261
larsonwarren@gmail.com

VICE PRESIDENT

Robin Silver, MD

P O Box 1178
Flagstaff, AZ 86002-1178
Phone: 602 799-3275
FAX: 928 222-0077
rsilver@biologicaldiversity.org

Secretary

Mary Rose

460 S. 113th St.
Mesa, AZ 85208
Phone: 602 999-7828
mary@chirpingcentral.com

TREASURER

Herb Fibel

3255 S. Dorsey Ln, Apt. 2004
Tempe, AZ 85282-3981
Home: 480 966-5246
Cell: 480 226-6014
hsfibel2004@q.com

FIELD TRIPS

Michael Plagens

4710 N. 10th Pl.
Phoenix, AZ 85014
602 274-0129
mjplagens@arizonensis.org

PUBLICITY

Lisa Fitzner

6120 E. Redwing Rd.
Paradise Valley, AZ 85253
480 223-3784
lefitzner@aol.com

CONSERVATION

Robert Witzeman

4619 E. Arcadia Ln.
Phoenix, AZ 85018
Phone: 602 840-0052
FAX: 602 840-3001
witzeman@cox.net

PROGRAMS

Laurie Nessel

1632 E. Cedar St.
Tempe, AZ 85281
480 968-5614
laurienessel@gmail.com

MEMBERSHIP

Scott Burge

8869 S. Myrtle Ave.
Tempe, AZ 85283
Work: 480 968-5141
Home: 480 897-8608
Cell: 480 227-3965
FAX: 480 345-7633
burge@burgenvm.com

EDUCATION

Mike Foley

1812 E. Pinchot
Phoenix, AZ 85016
Work: 602 914-4339
Home: 602 327-9707
mfoley33@gmail.com

EDITOR

Emily Morris

1226 W. 5th St.
Tempe, AZ 85281
203 213-5208
monarchmorris@gmail.com

Audubon Online

see us on the Web at:

www.maricopa-audubon.org