



TORREYANA

THE DOCENT NEWSLETTER FOR
TORREY PINES
STATE NATURAL RESERVE

Issue 354

November 2014

November Meeting:

2015 Board Election and Vote on Bylaws

Following is the slate of officers to be nominated for the Board election at the November 8th TPDS meeting, which is the Society's Annual Meeting.

President: **Frank Burham**
Vice-President: **Ingo Renner**
Treasurer: **Gerry Lawrence**
Secretary: **Annette Ring**
Communications: **Roger Isaacson**
Children's Program: **Janet Ugalde**
Programs: **George Beardsley**
Training: **Diane Stocklin**
Lodge Hosting: **Jan Lombardi**

Vote on Two Amendments

There will also be a vote on two amendments to the Docent Society bylaws:

The first amendment proposes changing the composition of the Board, to replace the current five directors of specific functions [Communications, Children's Program, Programs, Training, Lodge Hosting] with five at-large members. Direction and oversight of all functions would continue to be the responsibility of the entire Board. [This amendment would take effect in 2016 following the election at the Annual Meeting in November 2015.]

The second amendment makes eleven minor technical or typographical corrections proposed to enhance the accuracy and clarity of the bylaws. The Board considers these to have no impact on Society operation, structure or function.

Docent General Meeting

Saturday, November 8, 9 am

Location: St Peter's Episcopal Rec Hall, Del Mar

Title: Historic Structure Report for Torrey Pines Lodge

Speaker: Heather Crane

Every old structure has issues, and our Reserve's beloved Lodge is no exception. The cracks are alarming. The downspouts are falling down. Drainage near the structure is non-existent in some areas – in fact, one corner of the grounds simply drains into the crawlspace under the Lodge! The TPA commissioned architect lone R. Stiegler, FAIA, of the La Jolla firm IS Architecture to prepare a "Historic Structure Report for the Torrey Pines Lodge". All future repairs and restorations will be based on this report. Heather Crane worked closely with lone Stiegler on the project and will be reprising the presentation that was given at the March TPA Symposium.

Refreshments: Docents whose last names begin with **P, R, and S** will be responsible for providing snacks for this meeting.

For more details, **including exact wording of the amendments**, see the September and October issues of the *Torreyana*.

Due to illness in his family, Dr. Andrew P. Nosal, a marine biologist at the Birch Aquarium and Scripps Institution of Oceanography, was unable to give his presentation on shark ecology at the October general meeting. He will present his program at the March 14th docent meeting.

The Torrey Pines Docent Society publishes the *Torreyana* monthly, edited by Joan Simon and Pat Finn on alternate months, and is formatted and produced by Roger Isaacson. Submissions are due on or about the 20th day of the preceding month and may be emailed to

Editors@torreypine.org.

Circulation manager: Marian Casazza

Extra copies of the printed *Torreyana* may be found in the docent library.

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TP Association: torreypines.org

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TPDS 2014 Board Members:

President: Bill Eckles

Vice-president: Bob Doolittle

Treasurer: Gerry Lawrence

Secretary: Annette Ring

Dir. of Communications: Lou Adamo

Dirs. of Children's Program: Barbara Justice & Marie Johnson

Dir. of Programs: Hank Beck

Dir. of Training: Diane Stocklin

Dirs. of Lodge Hosting: Irene Larrimore
& Jan Lombardi

TPSNR Staff:

Supervising Ranger: Dylan Hardenbrook

Rangers: Kyle Knox, Jesus "Chuy" Salinas Rodriguez, & Mike Winterton

Sr. Park Aide: Louis Sands

Park Aides: Joy Inton, Johnson Jou, Isabelle Medina, & Jake Mumma

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FLASH From Joy Inton: Don't forget to donate your ZooNooz magazines to the Museum Shop.

Torrey Pines Docent Society General Meeting Minutes

October 11, 2014

Meeting called to order at 9:10 am by **Bill Eckles**.

Spotlight on: Walt Desmond educated the general membership on the history of TPDS bylaws starting with the Articles of Incorporation filed on 9/12/1977. There have been five amendments to the bylaws since then. Walt then reviewed the proposed amendments and announced the board slate to be voted on at the November general meeting (see front page).

Docent of the Month: Pao Chau was named Docent of the Month for October (see pg. 3).

Diane Stocklin announced that the Green Team is planning an Earth Day Celebration on Saturday, April 18, 2015. This will be a zero carbon footprint event; there will be no food, no buses. The initial plan is to have 10 stations & activities, with the focus on education and interpretation. Some possible activities/stations are: Water Conservation, SDG&E, SD Project Wildlife, Trash Clean Up, Whacky Weeders, Coffee with a Ranger, Boy Scouts projects, Jr. Rangers, SD Archaeology Society. The tentative plan has Dylan Hardenbrook's full support.

Sally Whitlock announced that reusable bottle sales from the TIK and Lodge generated a substantial profit so far this year.

Bill Eckles solicited comments on the Museum Refresh project. There was a suggestion for a display of a timeline of the Reserve, similar to the one done by the Rancho Bernardo Historical Society. New bird call recordings of the commonly heard birds in the Reserve, such as

bushtits and gulls, were requested, and there was a suggestion to have the sounds on a motion sensor instead of running continuously. Someone asked about the availability of a vacuum for docent use. **Ken King** mentioned that the Docent Society purchased a HEPA vacuum to use to clean the taxidermy in the museum. It is stored in the outside west storage room near the geology displays.

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Ranger's Report: Supervising Ranger Dylan Hardenbrook

The upper parking lots will be closed Oct 20-23 for repaving the road and the Lodge will be closed to visitors. The asphalt will be overlaid from Broken Hill to the golf course. The trails and road up to the top will remain open for foot traffic.

The Discovery Trail work is completed and it will reopen once the pavement has dried. The ADA trail at Whitaker Garden is complete. The Parry Grove stairs are finished, but the trail itself has erosion and needs delineation. It will probably open by the end of the year.

Q: Will uphill bicycles be banned?

A: The road will not be closed to cars or bicycles due to the new 3-foot passing law. When it's safe, cars can still pass bicycles; if not, they should wait behind the bicycles until it is safe to pass. There is a long-term road safety study as part of the Road and Trail Management Plan. The short-term road safety plan included painting the crosswalks.

Q: Will the dead Torrey pines on High Point and in the Extension be removed? There is concern over the spread of bark beetles.

A: Dead trees are not necessarily a bad thing; Charlie Kerns and Darren Smith are evaluating the dying trees. Pesticides were sprayed at High Point to control the infestation of bark beetles. There is no firm time line for tree removal.

Q: Will there be clearing of bushes and dead trees in the Extension by Via Grimaldi?

A: Yes. We need Darren Smith to give us a plan for which trees to clear.

Torrey Pines Book Club

When: Tuesday, November 18, 2 pm

Where: Ann Gaarder (Del Mar)

What: *House of the Fox* by Cornelia Feye

An art/murder mystery that takes place in the Anza-Borrego Desert.

All TPDS docents are welcome. Meetings usually last a couple of hours. Please contact Ann Gaarder if you plan to attend. (Check Member List for email or phone number.)

Refreshments: For November's general meeting, docents whose last names start with **P**, **R** and **S** are responsible for snacks.

The meeting was adjourned at 10:45 am.

Docent of the Month:

Pao Chau

Photo by Herb Knüfken

It's a pleasant surprise to be named Docent of the Month. I'm honored. I knew about Torrey Pines soon after I started teaching at UCSD, but at the beginning it was just a passageway on my runs up to Del Mar. Nature in California to me meant the national parks. I first learned of nature in San Diego from a docent at San Elijo who was a UCSD student. The first time I hiked through TPSNR was at the Extension with the Natural History Museum. I had followed the Canyoners all over the county. I did come back for the weekend walks, several times actually (and saw the efforts to kill Carpobrotus on the Guy Fleming trail). But not knowing I would ever be a docent myself, I regret now I forgot the names of those good folks who taught me. I spent a lot of time at Anza-Borrego until gas prices got too expensive. So when I retired as a professor of electrical engineering at UCSD, I joined the training program this year. I was very much inspired by the knowledge and dedication of all the docents that I've met, and I'd like to do my part to keep up the Reserve.



Since completing his docent training in June, Pao has been involved with many activities at the Reserve, including a lot of time at the TIK.

Children's Program

by Barbara Justice and Marie Johnson, Children's Program Directors and
Louis Sands, Children's Program Coordinator

The Children's Program is back in the swing of things with schools now in session. We began on Sept 25 with one of our most popular programs, Native Americans, Kumeyaay Indians. By the end of November, we will have given 19 separate programs and shared our love of TPSNR with over 1000 children. There are nine programs on Native Americans, five on Geology, three on Reserve, Plants & Habitat, and two on Ecosystems and Food Chains. Twenty-five different docent volunteers will be leading the children on trail walks. Our docent presenters are **Janet Ugalde, Bob Doolittle, Paul Howard, Wes Farmer, Kathy Dickey, Joellen Barnett, Ann Smith Mercandetti,** and Louis Sands. We thank you all!

If you are interested in joining the Children's Program or wish to see what it is all about, go to the Children's Program Sign-up on the docent website to check the time, dates and programs. Then, just come up to the Reserve and tag along with one of the groups. No need to sign up until you decide to lead a group by yourself. Please contact any one of us if you have other questions. We'd love to have you join us!

At a recent program about Ecosystems & Food Chains, one children's group was in the museum looking at all the animals when the docent asked them "Who is at the top of the food chain?" Without any hesitation, one young boy said, "We are!"

Rough Seas and Torrey Pines Greet Channel Island Wayfarers

by Tom Polakiewicz

The September 2014 Torrey Pines Docent Society trip to the Channel Islands started out differently from all of our previous trips. Instead of the calm early September conditions we have come to expect, we were greeted on our first morning at Scorpion Cove on Santa Cruz Island with hot winds blowing 25 miles an hour, and short choppy seas to match. The wind and seas made kayaking challenging, but our expert kayak guides, Andy and Amy from Aquasports in Santa Barbara, took us into the best of the Island's wonderful sea caves. Everyone also had the chance to hike on the island with Inge Rose, the National Park volunteer guide, who explained the Island's history, geology and plant life.

On our second day we landed by skiff at Southeast Anchorage in Bechers Bay on Santa Rosa Island. Our objective: the Torrey pines, *Pinus torreyana*, *ssp. insularis*. They grow in a compact grove on a hillside that has a beautiful view of the Santa Barbara Channel, ringed by mountains on the mainland and Santa Cruz Island to the east. Seeing the pines is a treat for any member of the Docent Society, and leads to the inevitable question, why do they grow naturally only here and at Torrey Pines, 200 miles away? We didn't find an answer to the question, but we did note the differences between our trees and the pines of Santa Rosa. The Torreys on Santa Rosa are bushier and shorter than those at Torrey Pines State Natural Reserve. They have more divided trunks and have darker blue-green needles. Perhaps because there are no ground squirrels on Santa Rosa Island, the grove is covered with heaps of Torrey pine cones.



Santa Rosa Torrey Pines (photos by Mike Yang)

Leaving the grove, we hiked to the only pier on the Island, located at the site of the old cattle ranch headquarters. The wind continued to blow as we motored in the skiff out to our boat, the *Conception*. The combination of wind and seas made Bechers Bay an undesirable place to anchor for the night, so we sailed around to the calmer south side of the Islands, and finally anchored in Johnson's Lee on Santa

Cruz, arriving in time for a late afternoon kayak and snorkel.

When we awoke on the last day, we were entering Cuyler Harbor on San Miguel Island after a rough passage from Johnson's Lee. The anchorage that had been a calm spot on our previous trips now felt like the inside of a wind tunnel, as the 35 mile an hour gusts blew over the Island and down onto the bay. Even so, we were able to cruise around the Island and see the hundreds of California sea lions, harbor seals and elephant seals that haul up on the beach at Love Cove. We took a turn around Prince Island in the middle of Cuyler Harbor to see the rookeries of pelicans, cormorants, and oystercatchers, all of which seemed relaxed and unconcerned about the rough seas and weather.

The ride from San Miguel back to Santa Barbara was a real experience. Running with six to eight foot seas, the *Conception* pitched and rolled like a bucking bronco. But with the brilliant sunshine sparkling off the foaming tops of the deep blue waves, it was a beautiful ride that none of us will soon forget.

This year's trip to the Channel Islands was a wonderful adventure for the docents and friends of the Docent Society who went along. We enjoyed exciting weather, spectacular scenery and the opportunity to see places where few visitors are lucky enough to go. And, of course, we have now seen the Torrey pines on Santa Rosa Island first hand.



On the *Conception* (photo by Mike Yang)

The following docents and friends participated in the Channel Island trip:

Julie Cory, Kathleen Dewhurst, Dave Dykhoff, Lisa Dykhoff, Anne Elliott, Jim Fraser, Karen Fraser, Bob Glaser, Shelley Glaser, Dan Hammer, Shelley Hammer, Doug Hansen, Greg Howard, Richard Jacobs, Lillian Lachicotte, Linda Lawley, Megan Pluth, Margaret Pluth, Rick Pluth, Tom Polakiewicz, Ingo Renner, Annette Ring, Stu Rosenwasser, Kristine Schindler, Lorraine Stein, Diane Stocklin, Mary Tabar, Dan Ugalde, Janet Ugalde, John Walters, Mike Yang, Albert Zlotnik, Linda Zlotnik.



Enjoying the Channel Islands (photo by Mike Yang)



Winter Solstice Culinary Delight (aka Holiday Potluck)

Please mark your calendars for these December holiday events:

Lodge Decorating on Saturday, December 6 from 8-9 a.m. (before the Lodge opens).

Holiday Potluck: St. Peter's Episcopal Church, Del Mar (note change of venue)
December 13, 11a.m.

Arlene Weinerman

Earth Day 2015

After being vetted by the Green Team, the Board, and Supervising Ranger Dylan Hardenbrook, we have decided to have an Earth Day celebration in TPSNR on April 18, 2015. This event will be both an interpretive and a hands-on event that will welcome our visitors to come and learn more about our natural habitat, and perhaps allow us to create partnerships to help protect our valued Reserve.

More specific details will follow closer to the date. There will be sign-up sheets for specific work opportunities, and we encourage each docent to help in the success of Earth Day, 2015.

Diane Stocklin

***** **Green Flash** *****

Sustainability in TPSNR: Reducing Single-Use Plastic Bottles

by Kristine Schindler

A very special call out to **Frank Burham** in this second of (hopefully) many Green Flash pieces. Frank was instrumental in moving the TPDS and TPSNR forward to help reduce the number of single-use plastic water bottles in the Reserve. We now are no longer selling single-use water bottles in the museum shop and instead are selling only reusable bottles. This is a small change, with a HUGE impact, which sends the right message to our visitors that we care and want to encourage good environmental stewardship here in the Reserve and beyond. Along with the sale of reusable bottles, Frank has now installed two refilling stations so that reusable bottles can easily be refilled when visiting the Reserve and beach areas. The first refilling station was established last year near the start of the Beach Trail at the West Overlook parking lot and the second more recently near the restrooms and showers at South Beach. Both are being very well used and support the overarching desire to educate visitors regarding resource conservation and our individual footprints, whether they are water, plastic, or CO₂. Thank you to Frank, TPSNR Staff, TPDS Board, and others for your hard work and commitment to making the Reserve more green!



Frank Burham and his 2nd creation – the refilling station at South Beach.

(Photo by Kristine Schindler)

Caring for our Museum

by Lillian Lachicotte

The Museum Committee's projects are progressing well. Pinecones in the museum are now labeled. **Frane Fischman** has agreed to look after our "touchy-freely" bones display, and plans to refurbish the "Magic Sand" box are in the works. We are also looking into building a rolling cart to enhance visitors' learning experience.

Steps are being taken to restore the maps in the video room and we plan to better preserve the Mat Triptych by reframing it using archival quality paper and techniques.

These projects add to the very successful work already accomplished by the Taxidermy and Museum Clean-up Committees which have brightened and enhanced our exhibits. Kudos to those involved in these projects.

If you have ideas on how to enhance our museum, leave a note in our president's box in the docent library.

Our visitors frequently praise the museum for its simplicity and appreciate the way our displays interpret our history and natural habitat. They find our Lodge to be an enjoyable extension of the Reserve. It's nice to hear these observations!

At the Museum Shop: Holiday Ideas Aplenty

by Suzan Potuznik

A museum shop gift is a gift that keeps on giving. It inspires, educates, entertains, and provides a source of

Father and daughter training for an upcoming Yosemite trip and enjoying an easy refill at the Upper Reserve Refilling Station.

(Photo by Kristine Schindler)



funding for the special place we call Torrey Pines State Natural Reserve. From child to adult, from birder to botanists, from artist to scientist, **Nancy Woodworth** and the docent Museum Shop Committee have thoughtfully selected items that appeal and reflect the Reserve's mission.

Treat the children in your lives to a story brought to life with a book, sounds and critters from the museum shop. A rain stick, a flute, a puppet or a horned lizard to accompany a reading of the story of a roadrunner, a peregrine falcon, the Kumeyaay people or the "Cat in The Hat" series of books about the creatures of the sea. Start our future docents on a journey of learning about nature with the many laminated guides of birds, plants, insects, and more. Turn the learning into a fun game with a deck of cards with images of southern California birds or California State Parks. See how well the children master the Insect Memory game and reward them with a Torrey Pines State Reserve patch, pin, or a hiking stick medallion.

The Museum Shop has puppets, from a baby bobcat finger puppet to a giant great horned owl, with creatures that cover land, sky and sea. The items sometimes tell a story, such as the wildlife bookmarks, or are a story in themselves. Discover the story behind the Jabebo earrings made from recycled



cereal boxes and one family's success story that incorporates educate/recycle/reuse into every delightful product.

For the grownups ready to set out on the trail, we have the gear: hat, T-shirt, water bottle, walking stick and a guide to the many trails throughout San Diego. From *60 Hikes Within 60 Miles* and trail maps/guide of the north and south San Diego County to the guides specific to choice of travel, foot or bike, and even a guide to the places you can bring your four-pawed friend. From the colorful pictures and easy-to-use laminated guides of plants and birds to the great text of plant life, *Native Plants of Torrey Pines Reserve* by **Margaret Fillius**, *Sibley's Guide to Birds* and *San Diego County Native Plants* by James Lightner. For a picnic along the way you may find a wonderful treat in *Torrey Treats*, the book of recipes contributed by the docents of the Torrey Pines State Natural Reserve. A ceramic dish by **Arline Paa**, with its simple elegance, makes a perfect companion gift to *Torrey Treats*.

The Museum Shop is filled with unique Torrey Pines Reserve-inspired gifts: beautifully crafted pottery mugs with Torrey pine needle highlights by **Connie Beardsley**, original miniature acrylics by **Jeannie Smith**, giclée prints of the award-winning paintings of the Reserve by San Diego artist Grace Schlesier, Torrey pines image ceramic tiles created by Laird Plumleigh, and the beautifully-crafted Torrey pine needle baskets by **Judy Schulman**. The moments of the Reserve are captured in the cards by **Eva Armi** (photography), the graceful sketches by Tsuyoshi Matsumoto, and in the book, *Torrey Pines Landscape and Legacy* by Bill Evarts, which brings together a breathtaking collection of his photographs of the Reserve with a beautiful narrative.

The Lodge will don a festive air with a Christmas tree decorated with docent hand-crafted ornaments ready to find a home on your tree: mini basket ornaments, portraits of the Reserve by **Jeannie Smith**, and more.

As the holidays approach, come and enjoy the Museum Shop, the view, and a relaxing moment beneath a Torrey pine, remembering and celebrating the children, friends and family in your lives.



Torrey Treats Go Well With History

Did you know that our TPSNR docents contributed recipes for a Torrey Pines Docent Society cookbook three years ago? **Torrey Treats** is available at the Museum Shop. The book not only contains many great recipes, but also tells the history of the Lodge. The book is dedicated to TPSNR and Ellen Browning Scripps, who had the foresight to buy the land and save the trees. This makes a terrific gift for any occasion, including the upcoming holidays. It is priced at \$18, minus a 20% discount for all docents. Hurry down and get your copy today!

Bonnie Hornbeck

*Did you know?**

The Answer is Blowin' in the Wind

by Tom Polakiewicz

What do Torrey pines, native grasses, willows, and oaks have in common? The answer is blowin' in the wind. That is, they are all wind-borne pollinators. Their pollen doesn't have a taste or smell that attracts birds or insects. Instead, they rely on the wind to carry their pollen to the flowers of their own species, or in the case of Torrey pines, to the waxy buds at the tips of the upper branches of the trees. This method of pollination is reliable, but inefficient. The plants must produce large amounts of pollen for it to reach its intended targets.

In contrast, plants like cactus keep their pollen close at hand. The flowers don't have a color or scent that attracts bees, but they do have tender stamens, the favorite food of beetles. The beetles pick up pollen while they munch on the stamen, and sometimes get caught when the flowers close up for the night. In the morning they go on their way, carrying a load of pollen on their bodies to the next flower.

Our native bees are attracted to plants like manzanita, lupine and blue-eyed grass. Their flowers have an inviting "landing platform" that fits the shape and size of bees, and spots or dots that guide the bees into the pollen. Bees tend to look for certain colors: yellow, purple or ultraviolet—a color that humans can't see.

Other flowering plants attract their pollinators with the color and smell of their flowers. Moths like fragrant white flowers they can see and smell at night. Flies prefer light green or white flowers that have no smell or a rotten smell. Migratory hummingbirds pollinate plants that have tubular orange-red flowers with lots of nectar and no fragrance, but hummingbirds that live here year round have learned to gather nectar, and therefore pollen, from flowers of almost

any color. Butterflies go for the pastels, e.g., pink, violet and blue, with a shape that gives them something to hold onto while they put their long, tubular tongues into the flower.



Blue-Eyed Grass

*Image by: Ed Austin-Herb Jones
- NPS Photo*

If you see plants with similar flowers, there's a good chance they have similar pollinators. Some plants send their pollen off by bird or insect, but for some it's just blowin' in the wind.

*This "**Did You Know?**" tidbit is one of a series of occasional submissions from **Tom Polakiewicz**

Many thanks to Anna-Lena Malm for formatting this issue of the Torreyana while Roger Isaacson was away.

Heard in the Reserve

by Donna Close

While working at the TIK one recent morning, a gentleman walked up holding a banana peel and asked where the trash can was. Park Aide Jake Mumma patiently explained why we don't have trash cans, and added that food was not allowed in the Reserve. The man then said, "This isn't food, this is fruit."

Sort of like the woman eating a bag of nuts, while talking to Supervising Ranger Dylan Hardenbrook. Her comment: "I know food isn't allowed. This is a snack."

Torrey Pines Docent Society Bird Survey: October 4, 2014

Number of species: 73

Unusual species in bold

Gadwall 1	Whimbrel 2	Say's Phoebe 8	Spotted Towhee 18
Mallard 7	Long-billed Curlew 2	Tropical Kingbird 1	Rufous-crowned Sparrow 2
Blue-winged Teal 6	Marbled Godwit 1	Cassin's Kingbird 10	California Towhee 18
California Quail 10	Short-billed/Long-billed	Western Scrub-Jay 5	Savannah Sparrow 2
Pied-billed Grebe 3	Dowitcher 2	American Crow 9	Song Sparrow 7
Black-vented Shearwater 5	phalarope sp. 2	Common Raven 10	White-crowned Sparrow 7
Brandt's Cormorant 5	Heermann's Gull 28	Barn Swallow 1	Red-winged Blackbird 1
Double-crested Cormorant 14	Western Gull 41	Bushtit 18	Western Meadowlark 1
Brown Pelican 66	California Gull 3	House Wren 5	Brewer's Blackbird 5
Great Blue Heron 1	Forster's Tern 1	Marsh Wren 2	House Finch 32
Great Egret 5	Elegant Tern 4	Bewick's Wren 6	Lesser Goldfinch 3
Snowy Egret 1	Eurasian Collared-Dove 8	California Gnatcatcher 7	House Sparrow 5
Osprey 1	Mourning Dove 8	Ruby-crowned Kinglet 3	
White-tailed Kite 4	White-throated Swift 5	Wrentit 29	<i>Observers:</i> Herb Knüfken,
Red-tailed Hawk 3	Anna's Hummingbird 19	Hermit Thrush 1	Bob Glaser, Frank Wong,
Semipalmated Plover 2	Rufous/Allen's Hummingbird 1	California Thrasher 2	Stu Rosenwasser, Jack
Killdeer 1	Belted Kingfisher 1	Northern Mockingbird 2	Friery, Ingo Renner, Eva
Willet 8	Nuttall's Woodpecker 4	European Starling 1	Armi, Blair Francis,
	Northern Flicker 2	Orange-crowned Warbler 4	Joanna Widlebrand, Kathy
	American Kestrel 6	Common Yellowthroat 6	Dickey, and Anonymous
	Peregrine Falcon 2	Yellow-rumped Warbler 18	
	Black Phoebe 10	Townsend's Warbler 1	

Previous Bird Surveys may be found at torreypine.org/activities/bird-sightings.html

Herb Knüfken's amazing photo gallery, including many birds, may be found here: pbase.com/herb1rm



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