

BAY BIRD REVIEW

A QUARTERLY PUBLICATION ON THE SCIENCE AND CONSERVATION OF BIRDS AND THEIR HABITATS



SAN FRANCISCO BAY
BIRD OBSERVATORY

Director's Message

Fall is a time to celebrate! Our members and donors are key to the success of the San Francisco Bay Bird Observatory. Your support allows our biologists to conduct field work, design new studies, analyze data, and write reports year-round to meet our mission of conserving birds. Each fall, we pull out all the stops for an event we call the California Fall Challenge. Our goal is to help our members celebrate the Bird Observatory's mission by enjoying birds in their habitats. There are many ways to participate—look inside this issue of the *Bay Bird Review* and find out how!

Fall is also a time of transition for SFBBO. Breeding season is wrapping up, and our biologists are making their annual fall migration back into the office. This fall, SFBBO is also undergoing a leadership transition, as I will be stepping down as Executive Director later in the year. This transition has been an opportunity to build upon our hard work of the past few years, and it has been a privilege to work with our Board and Executive Search Committee to help craft SFBBO's future. I'd like to thank them, and all of the SFBBO partners, members, and volunteers for their support. I look forward to seeing you at our extraordinary California Fall Challenge events or at our Annual Membership Meeting. Thank you for all that you do to help birds and their habitats.

By Jill Demers, SFBBO Executive Director



WILSON'S WARBLER

PHOTO BY BOB LEWIS

Science Report

Stopover Ecology of Migratory Songbirds at Coyote Creek Field Station

The migratory period is a critical stage of the annual cycle for migrating birds, and events experienced during migration can affect timing of arrival at breeding sites and subsequent reproductive success. Climate change may negatively impact migratory species if the timing of migration does not track with changes in food availability at breeding sites. Therefore, understanding patterns in the stopover ecology of migratory birds is important. Using Coyote Creek Field Station's long-term mark-recapture banding data, we (1) determined the age and sex composition for five species of migratory songbirds, (2) assessed changes in patterns of migration, (3) examined how regional climate conditions were associated with migration timing, and (4) estimated stopover duration and its relationship with body mass at first capture.

Seasonal abundance during migration varied among species. In spring, we captured 2-4 times more Swainson's Thrushes and Wilson's Warblers,

whereas in autumn, we captured 6-12 times more Pacific-slope Flycatchers and Yellow Warblers (Fig 1). We captured similar numbers of Orange-crowned Warblers in spring and autumn. Large seasonal differences in abundances suggest that some species may use different migration routes in spring and autumn. We could determine sex by plumage for three of our study species, and sex ratios were male-biased in spring and autumn for Wilson's Warblers (F:M = 1:1.7-2.8) and only in spring for Yellow Warblers (F:M = 1:1.6). Age ratios in autumn were juvenile-biased for all species (Ad:Juv = 1:2.1-44.2) except Swainson's Thrushes, which had similar numbers of juveniles and adults (Ad:Juv = 1:1.2). Possible explanations for heavily age- or sex-biased populations may be that these demographic classes use different migration routes, such as the Pacific-slope Flycatchers and Wilson's Warblers, or that some species may have a slight sex-biased population.

SCIENCE REPORT *continued on page 2*

Change in timing of migration and length of the migration period varied among species and between seasons. Spring migration occurred 1-5 days earlier per decade for Swainson's Thrushes and Yellow Warblers. The spring migration period contracted, or decreased, 8-13 days per decade for Pacific-slope Flycatchers and Wilson's Warblers, but protracted, or increased, 17 days per decade for Orange-crowned Warblers 38 days per decade. Autumn migration occurred 1-9 days later per decade for Pacific-slope Flycatchers, Orange-crowned Warblers, and Yellow Warblers. The autumn migration period protracted, or increased, 17 days per decade for Wilson's Warblers. Swainson's Thrushes showed no pattern of change in timing of autumn migration.

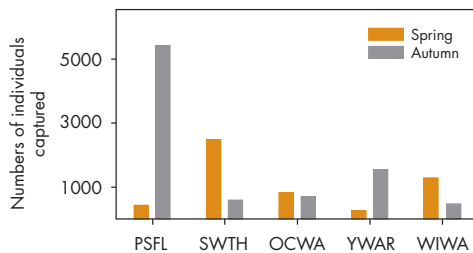
We examined how timing of migration was associated with broad scale climate conditions in western North America. We found that spring migration tended to be earlier in warm, wet climates, whereas autumn migration tended to be later in warm, dry climates.

Using mark-recapture statistics, we found that stopover duration varied seasonally and was generally longer compared to published estimates. Pacific-slope Flycatchers and Yellow Warblers had a longer stopover in spring than autumn, whereas Swainson's Thrushes and Wilson's Warblers had a shorter stopover in spring than autumn (Fig 2). Orange-crowned Warblers had similar stopover durations in spring and autumn. Interestingly, Pacific-slope Flycatchers are the only species of the five that undergo their annual molt at nonbreeding sites, and Yellow Warblers undergo the most extensive pre-breeding molt of all the warblers. Molt is energetically demanding, and its timing in the annual cycle may affect body condition and stopover duration for the migratory period following molt. Last, birds with a greater body mass at first capture had shorter stopovers.

The stopover ecology of migratory songbirds is complex. We found more variability in changes in timing of migration than previous studies. Although changes in timing were associated with broad scale climate

conditions, causal factors driving these changes remain unknown. Stopover duration data suggest that migratory songbirds may use stopover sites differently in Pacific coastal North America than other sites across the United States, but few published estimates exist at coastal sites for these five species.

FIGURE 1. Total number of individuals captured during spring and autumn migration, 1987-2008.

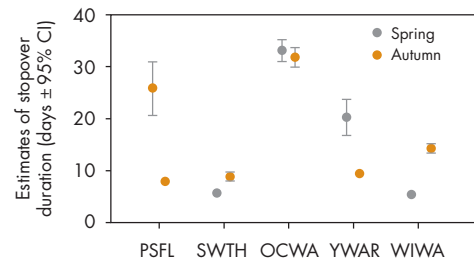


PSFL = Pacific-slope Flycatcher, SWTH = Swainson's Thrush, OCWA = Orange-crowned Warbler, YWAR = Yellow Warbler, WIWA = Wilson's Warbler.

Migration strategies of birds are quite variable among species, demographic classes, and flyways, so examination of long-term data from sites such as CCFS can provide important insight into the stopover ecology of migratory songbirds.

By Gina Barton, Kansas State University

FIGURE 2. Estimates of stopover duration in spring and autumn, 1987-1998. CI = Confidence interval.



Staff Migrations

Science Programs Director

Christina Donhower is the Bird Observatory's Science Programs Director. She is a broadly trained scientist with interests in applied ecology and conservation biology. Christina has more than eight years of experience planning and implementing ecological restoration and rare species recovery projects. She holds a B.A. in biology from Lewis and Clark College in Portland, Oregon and a Ph.D. in renewable resources (wildlife biology emphasis) from McGill University in Montreal, Quebec, Canada. Christina's graduate research examined gull-seabird interactions in the Gulf of Maine, and she is excited to support and develop avian monitoring and management programs in the San Francisco Bay. Prior to joining the Bird Observatory in July 2012, Christina worked as a restoration ecologist in Washington State and as a natural resources specialist in Hawaii.



Does Your Company Have a Matching Gift Program?

Matching Gifts are a great, easy way to double or even triple your donation to SFBBO. Many companies support employee philanthropy by offering matching gift programs. Please check with your HR department to see if your employer will match your gift to SFBBO. Employer contributions are counted towards your CFC Fundraising Competition total.



BLACK-NECKED STILT. Photo by Don Dvorak.



CALIFORNIA FALL CHALLENGE

Supporting Avian Conservation Science

Accept the Challenge – Join the Fun

The 16th Annual California Fall Challenge is the time to celebrate your passion for Bay Area birds! The California Fall Challenge supports the work of San Francisco Bay Bird Observatory: the scientific monitoring and research that conserve birds and their habitats. The funds contributed during this month-long series of events help us support the important work of our professional biologists and volunteer citizen scientists. Please help us reach our goal of raising \$25,000! Visit www.sfbbo.org or contact Kathi Kendrick, kkendrick@sfbbo.org or 408.946.6548 x10, to sign up for a trip, join a Bird-a-Thon, or pledge to the Band-a-Thon. Everyone who participates at a level of \$50 or more receives the 2012 California Fall Challenge T-shirt.

Five Ways to Support SFBBO

SIGN UP FOR A GUIDED TRIP

Whether you are a birder, nature lover, photographer, or are interested in conservation science, there is a CFC Guided Trip for you! Join us for a guided trip with the best birders and conservation leaders in the Bay Area. They are ready to lead you to some special places. See pages 4 and 5 for a listing of trips and leader bios.

JOIN A BIRD-A-THON

If you love a competition, sign up for our Mewaldt Cup Bird-a-Thon, the signature Fall Challenge contest! Join a team and do a Big Day anywhere in the state of California during the CFC period of September 15th to October 14th. The team or individual that records the most birds wins the Cup and other cool prizes, too!

CONTRIBUTE TO THE BAND-A-THON

Help fundraise for SFBBO's banding station as you learn about the science behind bird banding. Pledge to donate a set dollar amount per bird captured at Coyote Creek Field Station from September 15 – October 14, and cheer us on as we progress through the Fall Challenge. Since 2003, we have ranged from 379 to 1026 captures, so a pledge of 25¢ per bird would equal \$94.75 to \$256.50. Pledge a lump sum if you can't handle the suspense!

The full amount of your donation will directly support research at Coyote Creek Field Station! Donors will receive a final tally of all species captured during the Fall Challenge and will qualify for fundraising prizes. Also, sign up for our October 6 workshop *Science in the Hand: How Bird Banding Makes Avian Conservation Possible* (see page 5).

FUNDRAISE FOR PRIZES

Everyone is encouraged to enter our Fundraising Competition! Share our story with your friends and colleagues, tell them why you support this mission, and ask them to sponsor your participation in the California Fall Challenge. You could win an Arizona birding adventure with Mark Pretti Nature Tours, a fantastic binocular package from Los Gatos Birdwatcher, a fabulous one-night stay at Sorensen's Resort in Hope Valley, California, a pelagic day trip from Cheesemans' Ecology Safaris, or gear from REI and Patagonia. See page 6 for details.

WEAR YOUR SUPPORT

Everyone who participates at a level of \$50 or more receives an SFBBO T-shirt. Wear your support!

Visit www.sfbbo.org for all the details!

California Fall Challenge Guided Trips

Sunday, September 16th, 2012

7:30 am – 6:00 pm

GALLINAGO GO GO'S LED BY LISA MYERS

COST: \$100

Join Lisa for the Gallinago Go Go's 9th year in the California Fall Challenge. All levels are welcome to join the Go Go's as they bird Santa Clara County. Through her business, Let's Go Birding, Lisa leads tours and teaches classes that provide a fun, easy-going environment in which folks can learn, ask questions and increase their skill level. Lisa has birded since her teens and leads tours throughout Central California and Costa Rica. Lisa is also a member of Nikon's Birding ProStaff and a former member of the SFBBO Board of Directors. If this is your first bird-a-thon, then come along with the Go Go's. Have a great time, see great birds, and help raise money for SFBBO!

Thursday, September 20, 2012

5:45 pm – 7:30 pm

INTREPID A TO ZER'S LED BY KAY PARTELOW AND KAREN DEMELLO

COST: \$40

Celebrate the autumn equinox on this leisurely "after work" evening bird walk. From Avocets to Zonotrichia, our goal will be 26 species (from A to Z) over 1 1/2 miles at Charleston Slough and Shoreline Lake. This is the perfect oppor-

tunity for beginning birders, or those with limited time, to support SFBBO's California Fall Challenge. Karen and Kay make a fantastic birding team and are excited to show you one of their favorite birding spots. Kay has been birding since she was a youngster and is skilled at identifying birds by ear, and Karen has an enthusiastic approach great for beginning birders. Among their many varied interests, both Kay and Karen are docents for the Midpeninsula Regional Open Space District. Don't miss this wonderful walk!

Sunday, September 23, 2012

7:00 am – 4:00 pm

WANDERING VAGRANTS LED BY SCOTT TERRILL

COST: \$100

This day is what fall birding is all about! During migration, birds can deviate from their normal migratory routes. In California, most "vagrants" are birds that typically occur in eastern North America, but a few Asian vagrants show up now and then as well. To maximize the probability of encountering vagrants, the location for this trip will be determined by Scott one or two days prior to the actual day of the field trip and will be dependent on where vagrants are being reported. Scott is a specialist in avian ecology, having written over 30 scientific papers, primarily on bird

migration. Scott has served as a member of the California Bird Records Committee, Regional Editor for North American Birds, the Board President of SFBBO and Coyote Creek Riparian (Field) Station, Science Advisor to SFBBO, and is the primary author of the Audubon Society Master Guide to Birding. Take advantage of this opportunity to bird with a migration pro!

Saturday, September 29, 2012

7:30 am – 1:00 pm

VARIED TWITCHERS LED BY MIKE ROGERS

COST: \$50

Mike is an expert birder and knows all the great birding spots of Santa Clara County. This team will hit the best Alviso and Shoreline Lake birding locations, with the goal to see and hear 100 species. Mike is a former member of the California Bird Records Committee and is currently a Northern California regional editor for the journal North American Birds. Expect an exciting day full of great birds!

Sunday, September 30, 2012

10:00 am – 2:00 pm

AVOSETS LED BY BOB POWER

COST: \$50

Join Bob at the premier hawk migration site in western North America: Hawk Hill in Marin County. The end of September is the peak of the fall accipiter migration and often produces 12 species of raptors or more. Raptor identification will be a non-stop field experience as hawks, falcons, accipiters, kites, and more move through this natural migration funnel. Bob is the Executive Director at Santa Clara Valley Audubon Society and has led a Hawkwatch team at Hawk Hill for 9 years.

Sunday, October 7, 2012

8:00 am – 5:00 pm

CONTRA COSTA MINI-BIG DAY! LED BY DENISE WIGHT

COST: \$100

This abbreviated version of a Contra Costa County Big Day is a great way to discover the habitats and birds this East Bay county has to offer. Denise, a Contra

Guided Trip – How Do I Sign Up?

1. Some trips fill quickly, so please don't wait to sign up!
2. Use the enclosed envelope or register online at www.sfbbo.org. Pay at the time of registration.
3. By email, you will receive a confirmation with details to prepare you for a great day of birding. This will include where to meet and park, what to bring, and what to expect.
4. You will receive SFBBO's 2012 commemorative T-shirt if you participate in a guided trip at the \$50 and above level.
5. Consider participating in the Mewaldt Cup, the Fundraising Competition or the Band-a-Thon.
6. Invite your friends! Tell everyone you know about the mission of the San Francisco Bay Bird Observatory – the conservation of birds and their habitats through science and outreach.

Costa County native who has been teaching and leading birding classes since 1993, is the perfect guide! The trip will begin in Tilden Park, move to the Albany and Richmond shoreline, then head east to check out Martinez and Mitchell Canyon on the north side of Mount Diablo. You'll finish in East Contra Costa, with opportunities to see some Central Valley birds. This will be a day of great diversity in one of the most exciting counties to bird in our region. Visit Denise's website at www.blkittiwake.com.

Friday, October 12, 2012

8:00 am – 4:00 pm

**COASTAL MAVERICKS
LED BY ALVARO JARAMILLO**

COST: \$100

For surfers, coastal San Mateo County is synonymous with its largest and most powerful wave – Maverick's. For birders it is synonymous with another wave – migration! The San Mateo coast offers a wide variety of birding from shorebirds and raptors to vagrants at migratory stopover sites. This trip will help you find all the goodies, specialties, and diversity the coast has to offer! Alvaro is a senior biologist at SFBBO, well known for his popular classes and workshops offered through the Observatory. He is the author of books on birding and the environment, the Identify Yourself column in *Bird Watcher's Digest*, and a frequent contributor to both scientific and popular birding articles. He leads international birding trips and pelagic outings through his own company, Alvaro's Adventures.

Saturday, October 13, 2012

9:00 am – Noon

**REGAL EAGLES
LED BY RYAN PHILLIPS**

COST: \$50

Join Ryan Phillips for a morning of birding in the beautiful and ecologically important Coyote Valley. Coyote Valley is one of the last linkages between the Santa Cruz Mountains and the Diablo Range, and a great spot for wintering raptors. There will be a good chance of observing 14 raptor species including Prairie Falcon, Golden Eagle and Fer-

Saturday, September 15, 2012 • 4:30 pm – 7:00 pm

**THE BIG SIP AT LUCY EVANS BAYLANDS NATURE CENTER,
PALO ALTO**

COST: \$75

Join us for an early evening of watching birds and sipping wine at one of the most scenic locations on the Bay. We'll start with a bird walk around the Baylands, then enjoy wine and appetizers at the Nature Center. This will be a unique opportunity to catch up with SFBBO leadership and socialize with other SFBBO supporters. The Big Sip will be hosted by the SFBBO Board of Directors. Troy Rahmig, the SFBBO Board Chair, is a conservation planner at ICF International, and has been sipping wine and studying birds since college.

ruginous Hawk. Ryan has been birding since the age of 12. He now teaches at De Anza College's Environmental Studies Department. Ryan resides in Belize part of the year, where he founded and directs a nonprofit organization, the Belize Raptor Research Institute. Join the Regal Eagles and learn about the avian fauna of Coyote Valley and why it is such critical habitat in need of protection.

Sunday, October 14, 2012

8:00 am – Noon

**SNOWY PLOVER CONSERVATION
LED BY CAITLIN ROBINSON-
NILSEN**

COST: \$100

Join Snowy Plover expert Caitlin Robinson-Nilsen for a unique field trip and educational experience focused on the federally threatened Western Snowy Plover and the ongoing conservation efforts in San Francisco Bay. Caitlin is the Waterbird Program Director at San Francisco Bay Bird Observatory and an authority on the Western Snowy Plover

in San Francisco Bay. Participants will spend the morning in the field observing plovers at the Bird Observatory's study sites, followed by a short workshop highlighting SFBBO's nine years of plover research and how it informs management and conservation of this species.

Sunday, October 14, 2012

7:00 am – Noon

**TEAM DEDUCKTIONS
LED BY MATTHEW DODDER**

COST: \$50

Join Matthew on a South Bay birding adventure! Matthew will visit some of our lovely local wetlands. Attention will be given to gull and shorebird identification with a constant eye out for possible rarities. Matthew began birding in the mid-70s. After converting all his friends to birdwatchers, he began teaching bird classes at the Palo Alto Adult School in 1999. He continues to challenge students year after year with various bird ID mysteries. Visit his website: www.birdguy.net.

Saturday, October 6, 2012 • 7:00 am – 11:00 am

**SCIENCE IN THE HAND: HOW BIRD BANDING MAKES AVIAN
CONSERVATION POSSIBLE LED BY JILL DEMERS AND JOSH SCULLEN**

COST: \$75

Join Executive Director Jill Demers and Biologist Josh Scullen for an in-depth tour of the Coyote Creek Field Station, SFBBO's year-round bird banding station. Josh Scullen, our CCFS Manager, will demonstrate how birds are banded and measured, and lead you through the mist nets to view bird extractions. At the same time, Jill Demers will provide details about our current research projects, connecting the process of collecting data to the final results. This 4-hour demonstration is a great opportunity to see several species of residents and fall migrants in the hand, and learn why our research is important for protecting birds and their habitats. *To support CCFS, join our Band-a-Thon. See page 3.*

CFC Fundraising Contest Guidelines – How Do I Win?

You win by raising the most money for avian research! Here's how you do it:

1. **Register for the Fundraising Contest.** Register online at www.sfbbo.org or use the enclosed envelope.
2. **Tell everyone you know about the mission of the San Francisco Bay Bird Observatory** – the conservation of birds and their habitats through science and outreach. Set up a FirstGiving or other social networking account to spread the message of bird conservation. **Ask for sponsorship** of SFBBO's California Fall Challenge at the \$500, \$200, \$50 or \$25 level, or whatever they feel is the **largest gift they can give** to avian research.
3. **Give people the opportunity to do good in their local community.** Make it easy for them. Collect their cash and checks. Direct them to your social networking giving page. Donations can also be made through our website at www.sfbbo.org. Direct your sponsors to enter your name in the "dedication" window.
4. **Be sure to add your own donation.** Check to see if your company will match your gift.
5. The people who raise the most funds during the Fall Challenge **win the fantastic prizes!**



NUTTALL'S WOODPECKER. Photo by Mike Mammoser.

California Fall Challenge Prizes

Grand Prize: 7-Day Birding Trip to Southeast Arizona with Mark Pretti Nature Tours

Enjoy exploring one of the most biologically diverse areas in the United States. Habitats include the Sonoran Desert, the Chihuahuan desert with its grasslands and scrub, and the dramatic "Sky Islands." When you visit birding hotspots including Madera Canyon, Patagonia, the Huachuca Mountains, and the San Pedro River, you may see elegant trogon, vermilion flycatcher, up to ten species of hummingbirds, and many others. You'll also spend time learning about the fascinating ecology and geology of the area. For more info on Mark's incredible trips and his bio, visit www.markprettinaturetours.com.



Mark Pretti Nature Tours

2nd Prize: Family Bird Watching Package from Los Gatos Birdwatcher

This outstanding prize includes Pentax DCF SP 10x43 binoculars, binostrap, Audubon Birder's Journal, Kaufman's Field Guide to Advanced Birding, and a lens cleaning kit...total retail value \$767! Freddy and John Howell of Los Gatos Birdwatcher are loyal supporters of SFBBO, and we are thrilled with this prize donation. Go to www.losgatosbirdwatcher.com or visit their Los Gatos store for all your nature-lover supplies.



3rd Prize: Patagonia "His and Hers" Clothing Set

This duo of cozy fleeces, zip-neck thermals, and toasty socks will make your chilly mornings birding with a friend much more enjoyable! All constructed with the fabulous quality and environmentally sensitive materials that make Patagonia famous. Check out www.patagonia.com.



Go to www.sfbbo.org for all the details!

Thank you to the following sponsors of the 2012 California Fall Challenge!



Compete in our Bird-a-thon: Win the Mewaldt Cup

If you love a competition, sign up for our California Fall Challenge Mewaldt Cup Bird-a-Thon. Bird anywhere in California between September 15th to October 14th and record the most birds in a 24-hour period to win the Cup, bragging rights, and a basket of goodies from our sponsors! Registration for the Mewaldt Cup Competition requires a \$50 donation per person. Register for the Competition using the attached envelope, email outreach@sfbbo.org, or call 408.946.6548. For complete Mewaldt Cup Competition Guidelines, prize information, and to support the Bird Observatory, go to www.sfbbo.org. Good luck and happy birding!

Our thanks to these supporters of the San Francisco Bay Bird Observatory!



Thank you new and returning members, and generous donors, April – June 2012

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And thank you to the 34 people who gave up to \$40 each.

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BAY BIRD REVIEW is published quarterly by the San Francisco Bay Bird Observatory. Deadline for submissions is five weeks prior to the start of the quarter. Contact the editor at outreach@sfbbo.org for submission guidelines. Please send address changes to the office.

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Printed on recycled paper.

Layout by e.g. communications.

The California Fall Challenge T-shirt

The San Francisco Bay Bird Observatory is proud to announce our newest California Fall Challenge T-shirt, designed by artist Allison Connor and graphic designer Bob Nass. The design, inspired by our recent study of a San Francisco Bay Area endemic subspecies, will feature a pair of San Francisco Common Yellowthroats.

We offer the t-shirt to California Fall Challenge participants that donate \$50 or more to the Bird Observatory during this fundraising event. This donation can be participant fees for a Guided Trip or the Mewaldt Cup Bird-a-Thon, a donation in support of a fundraiser, a Band-a-Thon pledge, or as a straight donation to the Bird Observatory.



COMMON YELLOWTHROAT. Photo by Bob Lewis.



SAN FRANCISCO BAY
BIRD OBSERVATORY

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www.sfbbo.org

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Calendar

CALIFORNIA FALL CHALLENGE

We are proud to offer a month of expert guided trips, a bird-a-thon, a fundraising contest, and more – all in support of avian conservation science. Look inside for all the information or go online to www.sfbbo.org.

JOIN US FOR OUR ANNUAL MEETING

The 31st Annual Membership Meeting of the San Francisco Bay Bird Observatory will be held at South Bay Yacht Club in Alviso on Sunday, October 28th. Join us at this historic Alviso location for brunch and birds. Enjoy a morning of birding, the SFBBO membership meeting, science presentations and more. Email invitation to follow, RSVP required.



To check your membership status, RSVP, or register for a workshop, go to www.sfbbo.org, call 408.946.6548, or email kkendrick@sfbbo.org and we will be happy to assist you!



SPECIAL EVENT



MEMBER-ONLY ACTIVITY: Active SFBBO membership required to attend event.

Workshops for the Birder and Naturalist – 2012



WITH: *Alvaro Jaramillo, SFBBO Senior Biologist*

SITE: *Sobrato Center for Nonprofits in Redwood Shores*

SHOREBIRDS IN FALL

Tuesday, August 7th and Thursday, August 9th (instruction) • 6:30 – 9:00 pm;

Sunday, August 12th (field trip) TBD COST: \$150

The fall offers a fun shorebird challenge! Shorebirds can be difficult to identify in the fall as they return from their breeding grounds in juvenile and non-breeding plumages. We will dig into shorebird behavior, physiology, ecology, and everything else that is relevant to this season. This is a chance for you to create depth to your shorebird identification skills and view many species.

Birding Level: Intermediate and up.

SEABIRD WORKSHOP AND PELAGIC TRIP

Tuesday, August 28th and Thursday, August 30th (instruction) • 6:30-9:00 pm

Saturday, September 8 (optional pelagic trip) COST: \$90 (CLASS)

In North American birding, the ocean is the final frontier! Birds move due to migration, food concentrations, and changing habitat conditions, and may use the entire ocean as part of their annual distribution. In-class instruction will focus on the identification, ecology, and distribution of seabirds. *This workshop can be taken as just a class or may also include a discounted pelagic trip. Please call 408.946.6548 for special registration procedures.*

Birding Level: Beginner and up.

BIRD IDENTIFICATION WORKSHOP — TIPS, TRICKS, AND HOW-TO

Tuesday, October 30th and Thursday, November 1st (instruction) • 6:30-9:00 pm

Sunday, November 4th (field trip) TBD COST: \$150

There are many challenges to becoming a birder, particularly if you want to identify everything you see. Learn to see the bird not as parts but as a whole, observing pattern, color, movement and behavior. We also discuss tips and tricks to facilitate identification and how the human brain functions when identifying birds.

Birding Level: Beginner and up.