



# 'ELEPAIO

Journal of the  
Hawai'i Audubon Society

For the Protection of  
Hawai'i's Native Wildlife

VOLUME 74, NUMBER 2

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## State of the Society 2013: Report to the Membership

By Linda Paul, HAS President

*MISSION STATEMENT: To foster community values that result in protection and restoration of native ecosystems and conservation of natural resources through education, science and advocacy in Hawai'i and the Pacific.*

The Hawaii Audubon Society was established in 1939 by a small group of dedicated birders to further the protection and conservation of Hawaii's native wildlife and the ecosystems that support it. In 1967 it was granted non-profit §501(c)(3) status by the U.S. Treasury Dept. It is now a statewide conservation organization with a membership of approximately 2,000 beginning its 75th year of conservation work. Although it became a chapter of the National Audubon Society (NAS) in 1978, it is independent of that organization in matters of governance, policy, financial control, and programs.

### Society Governance

Programs, policies and activities are guided by our Mission Statement and the purpose, organization, and procedures are set forth in our Constitution and By-laws. A Board of Directors governs the Society and Officers elected by the membership at its annual meeting at the end of the year. During 2013 officers included President Linda Paul, First Vice President Elizabeth Kumabe-Maynard, Secretary Melissa Sprecher, Treasurer Catherine Pligavko and Directors Thorne Abbott, Phil Bruner, Rachel Fukumoto, Diana King, Melissa Kolonie, Kristen Nalani Mailheau, Mary Roney, Laura Sheehan, Talia Ogliore, and Lance Tanino. Wendy Johnson served as the Society's Executive Director. In January the Board held its annual leadership retreat, which included a Strategic Planning session, the annual budget discussion, and an extended board meeting.

### Education and Outreach

The Society has a number of standing committees headed by Directors. In 2013 Laura Sheehan was in charge of the Education Committee, Thorne Abbott the Conservation Committee, and Kristen Mailheau the Field Activities Committee. Committee membership is open to all members of the Society (Please see our website for more information).

**The 'Elepaio:** Our peer-reviewed journal focuses on research and conservation work in Hawaii and the Central Pacific and provides educational outreach to the Society's membership and subscribers. Glenn Metzler served as the 'Elepaio's Scientific Editor. Six bi-monthly issues were published in 2013, which can be received both electronically and by mail. Scientific articles in 2013 included *Dietary Analysis of Free-ranging Cats at*

*Ka'ena Point, Hawaii* by Michael Lohr, Lindsay C. Young, Eric A. VanderWerf, Christopher J. Miller, and Homer Leong; *The Status and Comparative Nesting Phenology of the Red-Crowned Parrot on O'ahu, Hawai'i* by Nicholas P. Kalodimos; *A Nest in Koa (*Acacia koa*) Successfully Fledged Two 'Akoapola'au (*Hemignathus munroi*)* by Vitek Jirinec, Cameron L. Rutt; Joel A. Kutylowski, Alex X. Wang, C. Robby Kohley, Stephanie R. Wheeler, Hanna L. Mounce, and Jack Jeffrey; and *The First Annual Audubon Christmas Bird Count at Kaho'olawe Island Reserve* by Lance Tanino and James Bruch.

**www.hawaiiadubon.org:** The Society's website provides a comprehensive source for up-to-date information on the Society and its activities. It includes electronic versions of the 'Elepaio; field trips, service projects, programs, meetings, and volunteer opportunities; membership information; an on-line store; information on birding in Hawai'i; a gallery of beautiful bird photos; and links to a number of related organizations and issues.

**Kawainui Marsh and World Wetlands Day:** Each year the Society displays our educational materials and products at the World Wetlands Day celebration in Kawainui Marsh. The Kawainui-Hamakua Marsh Complex is the largest remaining wetland in the State and Society members have been working for years for its protection, including advocating for state matching funds to construct habitat ponds for endangered water birds. In 2013 the Army Corps of Engineers completed the terraced water bird ponds and DOFAW, Ho'olaulima, and Society volunteers began volunteer work in the ponds.

The Society is a founding member of Ho'olaulima Ia Kawanui, which is a network of conservation organizations whose collective mission is to foster public awareness and understanding of the natural, historical, cultural, and scenic resources of the Kawainui-Hamakua Marsh Complex to ensure the long-term protection, restoration and stewardship of its resources. In addition to planning the World Wetlands Day celebrations, the network has been working on a resources interpretive plan and the update of the 1994 Kawainui Master Plan.

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## Conservation

**Freeman Seabird Preserve:** In September 2007, the Society was given a one-acre coastal property at Black Point on the southern coast of O'ahu thanks to an unprecedented gift from the Houghton Freeman Foundation. The Freeman Seabird Preserve is home to a colony of Wedge-tailed Shearwaters ('ua'u kani, *Puffinus pacificus*). The restoration of this property from a vacant residential property into a native coastal habitat has been the on-going project of the Society ever since. In 2013 volunteers continued to remove alien plants from the Preserve, a task that must be accomplished during the three-month period from January through March when there are no shearwaters in residence. Population monitoring of the colony by Dr. David Hyrenbach, Assistant Professor of Oceanography at Hawai'i Pacific University, and his students also continued. (See 2013 Update by Dr. Hyrenbach and Wendy Johnson in this issue.)

**Pacific Fisheries Coalition (PFC):** The PFC, a project of the Society, is a unique collaboration between conservationists and fishermen who found common ground in their desire to promote the conservation and responsible use of living marine resources in Hawaii and the Pacific Basin. It began in 1998 and over the years received grants from several foundations and other sources. Linda Paul, who serves as project administrator and policy analyst on a pro bono basis, administers the project. Linda, who has represented Society on the U.S. delegation to the Western & Central Pacific Fisheries Commission since 1999, attended the 2013 Commission meeting in Cairns, Australia, and was reappointed to the U.S. Advisory Council to the Commission, which held its annual meeting in Honolulu in October. Our participation on the delegation over the years has resulted in observers being allowed to attend and speak at Commission meetings and in by-catch control and mitigation measures, which have helped to conserve populations of seabirds, turtles, sharks, and highly migratory pelagic fish species.

The Society is also a member of the Marine Fish Conservation Network and Linda serves on its Board of Advisors. The Network advocates for national policies to achieve healthy oceans and productive fisheries. It works on the periodic reauthorization of the Magnuson Stevens Act and its implementation, as well as by-catch measures, observer coverage and marine spatial planning. Linda also represents the Society and the broader conservation community on the Northwestern Hawaiian Islands Coral Reef Ecosystem Advisory Council (RAC) and has been its vice chair since 2004. The Papahānaumokuākea Marine National Monument was the result of an initiative to protect the NWHI begun by the PFC in 1999. The Society is also represented on the Multi-Agency & Partner Marine Debris Cleanup Group and the state Alien Aquatic Organism Task Force, which was created by the Legislature as a result of PFC efforts. The PFC has produced a number of educational reports, brochures and posters, which are distributed to policy makers, resource managers, fishermen, students and the general public.

**Legislature:** Although budget constraints prevented us from hiring a legislative analyst in 2013, Society members Thorne Abbott and Linda Paul monitored environmental bills related to the Society's mission statement and submitted testimony in 2013 in behalf of the Society as appropriate, including testimony on bills addressing the

sale and use of synthetic nets for gill net fishing, aquarium fish collecting, coastal zone management, mitigation banks, and a bill proposing to amend Article XI, section 2 of Hawaii's Constitutional amendment to add game animals to the list of natural resources that the Constitution mandates the State conserve and protect. Not only are non-native game animals not natural resources of the State of Hawaii, it is well known that they destroy Hawaii's native ecosystems. The Society is a member of the Environmental Legislative Network.

## Field Excursions and Service Trips

**Habitat Restoration at the Freeman Seabird Preserve every Saturday, January through March.** Volunteers helped maintain native plants and removed invasive plants, trash and debris.

**Educational Service Trip to 'Ihi'hilauea Crater, Saturday, January 12th.** Participants hiked around the crater that makes up Hanauma Bay to the endangered 'ihi 'ihi (*Marsilea villosa*) habitat to learn about conservation in Hawaii, endemic plants, view waterfowl and remove invasive species.

**Kayaking and Habitat Restoration at Mokulua Islet in mid February.** Participants kayaked to the Mokulua Islets seabird preserve, removed invasive species and viewed plant natives with Amarisa Marie, the Offshore Island Biologist with DLNR.

**Poamoho Ridge Trail Birding Tour, Sunday, March 10th.** Lance Tanino led a birding hike through native forest up the Ko'lau Summit. Trail is 3.5 miles each way and quite narrow. There were beautiful views of the Northeastern shores of O'ahu and Kahana and Punalu'u Valleys.

**Lyon Arboretum Habitat Protection, Saturday, March 16th.** Participants learned about high threat invasive species, removed weeds, and helped protect Oahu's unique ecosystems and native wildlife with the Oahu Invasive Species Committee in partnership with Lyon Arboretum.

**Sunset & Shearwaters: Volunteer Appreciation Night at the Freeman Seabird Preserve, March 16th.** After three months of hard work restoring native habitat for the Wedge-tailed Shearwaters, volunteers enjoyed a sunset at the Preserve with light pupus and drinks while learning about the success of the 2012 breeding season, a record year in the number of active nests followed by 92.2% and 90.3% hatching and fledging success, respectively.

**Educational Talk: "Recovery Efforts for the Kiwikiu (Maui Parrotbill *Pseudonestor xanthophrys*) on March 22nd.** Hanna Mounce with the Maui Forest Bird Recovery Project (MFBPR) gave a talk about their efforts to recover the critically endangered Kiwikiu with populations of about 500 individuals endemic to the Island of Maui.

**Keauhou Bird Conservation Center Tour with the 'Alala Recovery Project, Saturday, March 23rd.** Participants toured the Keauhou Bird Conservation Center to see the 'Alala and learn about their research and release plan.

*Paiko Lagoon:* The indefatigable Alice Roberts conducted five excursions in 2013. **On April 6th**, she conducted a night low-tide reef walk to see waterfowl and bioluminescent bobtail squid. **On May 25th & June 22nd** she conducted low tide reef walks to see birds, limu, and sea creatures. **On September 7th** she conducted a "Welcome Home Shorebirds" tour of the birds and their habitat, a great opportunity to view their changing summer plumage patterns. **On November 30th**, she conducted another night low-tide reef walking tour of the lagoon.

*Moku 'auia Island (Goat Island) Habitat Restoration, Saturday June 8th, August 10th, and November 16th.* Volunteers spent the day off the coast of Malaekahana Beach Park removing invasive species and planting natives to restore habitat for nesting seabirds.

*Waikamoi Preserve Tour, Saturday, June 15th.* Laura Berthold from the Maui Forest Bird Recovery Project led a hike through the Preserve and onto the boardwalk. Participants from Maui and Oahu were treated to excellent views of at least seven endangered 'Akohekohe (Crested Honeycreeper) as well as the Maui 'Amakihi, the Maui 'Alauahio, the I'iwi, the 'Apapane, and other not-so-native species.

*Seed Collecting and Palila Viewing, Sunday, May 19th & September 28th.* Volunteers joined the Mauna Kea Forest Restoration Project and Hawai'i Nei Art Contest for an inspiring day collecting seeds for restoration efforts, bird watching and sketching.

*Hilton Hawaiian Village Bird Tour, Saturday, July 13th.* Alice Roberts conducted a tour of the Village's 10 ponds to see and feed several species of fish and a visit behind the scenes to the parrots and any rehabilitating birds.

*Kahanahaiki Forest Restoration Service Trip, Saturday, July 13th.* Volunteers hiked to a restoration site in the Kahanahaiki Forest, located on the north west side of the Waianae Mountain Range. This mesic forest is home to a large number of native species, including several endangered plants and the kahuli tree snail.

*Pouhala Marsh Wetland Restoration, Saturday, August 17th & September 28th.* Volunteers helped with the Hawaii Nature Center's service project at Pouhala Marsh, which is the largest remaining wetland habitat in Pearl Harbor and Hawaiian stilt habitat to remove pickleweed, cattail and mangrove.

*Kawainui Marsh Restoration, Saturday, September 7th.* Society members worked on clearing weeds from the newly completed restoration ponds behind Castle Medical Center in Kailua during the monthly volunteer day led by DLNR/DOFAW.

*Bishop Museum Vertebrate Collections Tour, Monday, September 9th.* The Museum's Vertebrate Zoology section includes collections of mammalogy, ornithology, herpetology and paleontology specimens. The Hawai'i bird collection of approximately 7,200 specimens includes extinct native species, native breeding species, introduced species, and non-breeding visitors.

*Maui Forest Bird Presentation + Walking Tour at the Lyon Arboretum Saturday September 21st.* Hanna Mounce talked about the past, present and future of Maui's native forest birds and the work toward establishing a second population of Kiwikiu (Maui Parrotbill)

*Kolea Lecture by Dr. Wally Johnson, Monday, October 21st.* Dr. Johnson discussed new insights about out the remarkable transpacific journeys of the Kolea (Pacific Golden Plover), including new findings from tracking studies completed over the past several years. He also described some biological features of plovers such as plumage, nesting, life span, and how to identify males, females and juveniles.

*Birding Identification Field trips at Central Oahu Regional Park, Saturday, November 23rd and at Kapiolani Park, Saturday, November 30th.* In preparation for the Society's annual Christmas Bird Count in December, circle compilers David Bremer and Pete Donaldson taught participants how to identify birds using sight and sound.

*114th Annual Audubon Christmas Bird Count.* Society members and friends participated in the longest running citizen science survey in the world, which provides critical data on population trends. All over the United States tens of thousands of people participate. From December 14th to January 5th, Society members and volunteers counted birds in Honolulu and Waipio on Oahu; Lanai; Molokai; Kealia Pond NWR and Hosmer's Grove on Maui; Kona and Volcano on Hawai'i; and Waimea and Kapaa on Kauai. The results will be officially announced later this year. The results of the 113th Count were published in the November/December issue of the *'Elepaio*.

*Hawaii Audubon Society's Annual Members' Meeting at Le Jardin Academy, December 9th.* In addition to announcing the newly elected officers and board members, the meeting featured a presentation on the Kawainui Marsh Restoration by Ati Jeffers-Fabro, DLNR/DOFAW Wetland Coordinator and Jim Cogswell, DLNR/DOFAW Kawainui Wildlife Biologist.

### Awards

Every year the Society presents two awards for outstanding research related to Hawaii's natural history at the Hawaii State Science & Engineering Fair. In 2013 the HAS Senior Division Research Award went to Connie Kim (12th grade, Waipahu High School) for her project entitled "Surveying Anchialine Pools at Kalaeloa National Wildlife Refuge to Restore the Population of the Hawaiian Orange-Black Damselfly (*Megalagrion zanthomelas*)."

The Junior Division Research Award went to Anne Nakamoto (7th Grade, Waiakea Intermediate School) her project was entitled "Two Bees or Not Two Bees...(Pollinating Invasive Fireweed)? That is the Question. A Study of Native Hylaeus Bee and Introduced Honey Bee Visitations to Flowering Fireweed as Compared to Native Mamane Tree." (See the July/August *'Elepaio* for more details.)

### Finances and Fundraising

As the Society has slowly grown over the years, the number of tasks that needed to be accomplished began to outpace the time and

ability of our volunteers. Accordingly, more and more tasks are now done professionally, including office management, book-keeping, and the distribution of our peer-reviewed journal and educational products. Office coordinator Marisa Watanabe was hired in April to manage member services and edit the *'Elepaio*, and in December Tess Tarling replaced Marisa. However volunteers and donors still provide vital, critical and essential leadership, assistance and support to the Society. We currently derive the majority of our operating and programmatic funding from membership dues, generous gifts, and sales of our educational products, which include our incomparable handbook *Hawaii's Birds* and its audio companion *Voices of Hawaii's Birds* (2 vol. CD); *Treasurers of O'ahu* birding & family hiking map; *Hawaii's Rare & Endangered Birds* Art Collection greeting cards illustrated by Patrick Ching; Van Zyle Nene lithograph print; 'Elepaio patches; check lists of the birds of Hawaii, Micronesia, and the Mariana Islands; a field check card; and 'Elepaio, Kolea and Ruddy Turnstone "Akekeke" T shirts.

In July the Society held its Third Annual Shearwater Soiree, which included a presentation by Dr. Hyrenbach on the Wedge-tailed Shearwater monitoring program at the Freeman Seabird Preserve, a potluck dinner, and silent auction. It generated not only a good time for the participants, but funds to support the conservation work of the Society. We also received many generous donations and matching gifts from our members and benefactors.

#### Grants

In March the Society was awarded an Atherton Family Foundation grant to develop Manu-o-Ku Tours on 'Iolani Palace grounds to educate residents, school groups, and visitors about the importance of Hawaii's native plant and wildlife species and their connection to Hawaiian culture and tradition.

Funding for enhanced research, public awareness and education activities at the Freeman Seabird Preserve was received in September from the Disney Worldwide Conservation Fund, for work to take place during 2014. The project includes the creation of an interactive website for students, informational signage and increased photographic/film monitoring of the Wedge-tailed Shearwater colony at Black Point.

## Sunset and Shearwaters:

### Volunteer Appreciation Night!

**Saturday, March 15<sup>th</sup> from 5pm-Sunset**

We want to say MAHALO NUI to all of our current (and future) volunteers at the Freeman Seabird Preserve for all of their hard work restoring native habitat to prepare for the Wedge-tailed Shearwaters to return to at the end of March.

**Join us for a potluck and BYOB at the Freeman Seabird Preserve at Black Point. RSVP to [hiaudsoc@pixi.com](mailto:hiaudsoc@pixi.com) or call 808-528-1432.**

## Recent Bird Observations

*By Lance Tanino*

#### JANUARY 01

*Peregrine Falcon* - One was observed at Hawai'i Volcanoes National Park by Cindy Granholm.

#### JANUARY 04

*Spotted Sandpiper* - One was observed at the Waiawa Unit of Pearl Harbor National Wildlife Refuge, Waipahu, O'ahu by Pete Donaldson and Jean Campbell during the Waipio Christmas Bird Count.

#### JANUARY 09

*Gray-Tailed Tattler* - One was observed by Kurt Pohlman from the Kahuku aqua farms into the Kii Unit of James Campbell National Wildlife Refuge, Kahuku, O'ahu.

*Terek Sandpiper* - One was observed by Kurt Pohlman from the same area where the Gray-tailed Tattler was observed.

This is the *first record* for the Hawaiian Islands.

*Belted Kingfisher* - An adult male was seen at Kanaha Pond Wildlife Sanctuary, Kahului, Maui by Alex Wang and Keith Burnett.

#### JANUARY 11

*'Akohekohe* - Seven were seen by Chuck Probst (The Nature Conservancy docent) at Waikamoi Preserve, Haleakala National Park, Maui.

*Kiwikiu* - One was observed by Chuck Probst at Waikamoi Preserve, Haleakala National Park, Maui.

*Peregrine Falcon* - One was observed at Costco/Kanaha Pond Wildlife Sanctuary, Kahului, Maui by Keith Burnett and Jean Campbell.

#### JANUARY 17

*Semipalmated Sandpiper* - One was observed at Kealia Pond National Wildlife Refuge, Kihei, Maui by Alex Wang.

#### JANUARY 19

*Common Tern* - One was observed and photographed at Mamala Golf Course (2nd Hole), Hickam Air Force Base, Honolulu, O'ahu by Dorcie Sakuma.

#### JANUARY 22

*Northern Harrier* - One was observed by Chris Farmer at Kaohe Game Management Area on Mauna Kea, Hawai'i Island during annual Palila surveys.

#### JANUARY 25

*Black-Footed Albatross* - One was observed from Kahuku Point, O'ahu by Javan Rasnake and Jean Campbell.

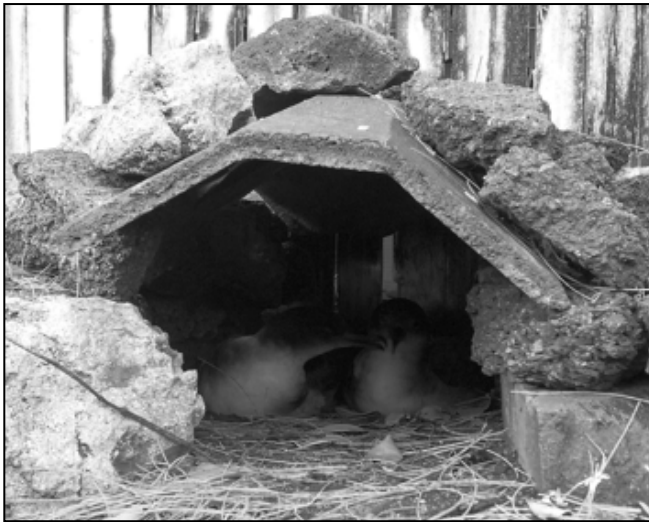
#### FEBRUARY 23

*Terek Sandpiper* - It continues to be seen from north end of aqua farms in Kahuku by many observers. It was last seen on February 23rd by Kurt Pohlman.

# Five Years of Wedge-tailed Shearwater Monitoring and Habitat Restoration at the Freeman Seabird Preserve: 2009 - 2013

By K. David Hyrenbach, Associate Professor of Oceanography, Hawai'i Pacific University, khyrenbach@hpu.edu  
Wendy Johnson, Hawai'i Audubon Society Executive Director

We briefly report on the ongoing monitoring and revegetation program at the Freeman Seabird Preserve, and provide updates on the findings from the 2013 breeding season and the plans for future monitoring, habitat restoration, and predator control at the colony.



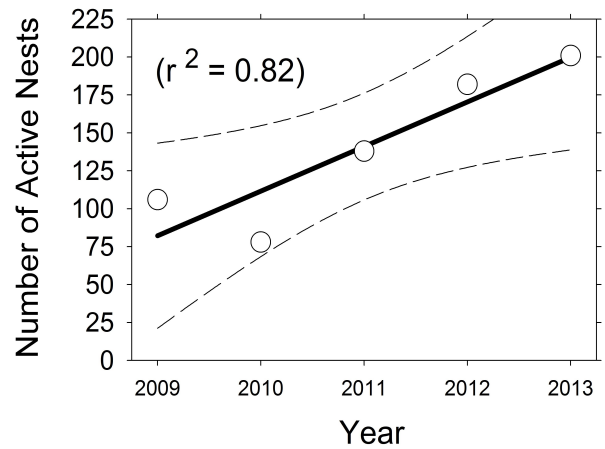
Wedge-Tailed Shearwaters nesting in artificial nest site (Photo taken by David Hyrenbach, July 2013)

## 2013 Update

This year we documented a new record number of Wedge-tailed Shearwaters (*Puffinus pacificus*, 'Ua'u kani) nesting at the Freeman Seabird Preserve. The yearly colony-wide census during the peak egg-incubation period (July 14) yielded 201 nests, substantially higher than previous annual counts. This record incubation nest count was followed by the highest post-hatching count after the peak hatching period (September 14), a record of 179 nests. Together, these figures underscore the ongoing increase in the size of this colony since our censuses began (2009).

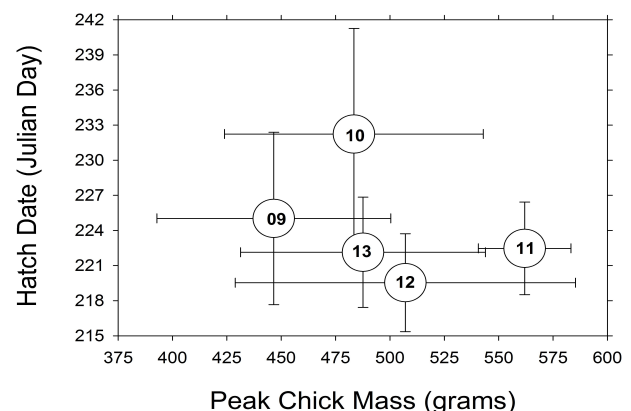
Altogether, the annual population surveys reveal an annual rate of increase of 25 %, with a doubling of active nests over the last five years (from 106 in 2009 to 201 in 2013). In fact, the statistically significant ( $F = 14.089$ ;  $df = 1,3$ ;  $p = 0.033$ ) slope of this trend describes an annual increase of  $29.4 \pm 7.8$  SE nests per year and captures 82 % of the year-to-year variability in the time series (Fig. 1).

This trend suggests that the ongoing revegetation efforts and the increasing number of available nesting sites continue to support an unprecedented growth of this Wedge-tailed Shearwater colony, despite the occasional loss of eggs and chicks due to predation and year-to-year variability in ocean productivity.



**Figure 1.** Trend in the number of Wedge-tailed Shearwater active nests at the Freeman Seabird preserve, from the annual colony-wide census during the peak incubation period (July 14), showing the best-fit linear slope from linear regression (solid line) and the 95% confidence interval envelope

The demographic monitoring also revealed that 2013 was characterized by average conditions, similar to those documented in previous years (Fig. 2). In 2013, chick hatching dates spanned from August 4 - 28, with a mean of August 10 ( $\pm 5.2$  S.D. days). When compared with the four previous years, hatching dates fell in line with those from the previous years (2009, 2011, 2012), except 2012, when the mean hatching date was August 19 ( $\pm 9.0$  S.D. days). Chick peak masses were also comparable to those from previous study years. In 2013, chick peak masses ranged from 320 to 572 grams, with a mean of  $487.6 \pm 56.3$  grams. Again, the value for 2013 fell in line with previous observations during “normal” years (2010, 2012), and was above those documented during a year of poor provisioning (2009) and below those during a year of good provisioning (2011).



**Figure 2.** Estimates of the timing of breeding (chick hatch date) and parental provisioning (peak chick mass), showing the mean  $\pm$  SD (circles and error bars) for each year during the study period (2009 – 2013).

In summary, these results suggest that 2013 was a “normal” year, with average phenology and chick provisioning, in the context of the last four years (2009 – 2012) (Hyrenbach 2011, Hyrenbach & Johnson 2012, 2013). Overall, 2013 was a year of relatively high chick productivity at the Preserve, with the monitoring data revealing 89.3% and 90.4% hatching and fledging success, respectively. While there was evidence of cat predation, from both the monitoring of nests via cameras and visual checks, aggressive trapping at the preserve minimized its impact on the population. Thus, the synergy of “normal” oceanographic conditions, that supported average breeding phenology and provisioning rates, and the loss of some eggs and chicks at the colony, resulted in a year of “average” productivity.

### **Educational Talk: Palila Habitat Restoration on Mauna Kea**

Robert Stephens, Coordinator of the Mauna Kea Forest Restoration Project, will speak to the HAS about the current status of the Palila on the Big Island.

The Palila (*Loxioides bailleui*) is the last of Hawaiian seed-eating finches. It is a federally endangered bird that feeds almost exclusively on the māmane seedpods and flowers (*Sophora chrysophylla*). The Palila is only found in the southwestern high elevation dry forest of Mauna Kea, on the Big Island of Hawai‘i. Since 2006, the Mauna Kea Forest Recovery Project (MKFRP) has been working to restore two large areas of land (>6,500 acres) to mitigate Palila habitat loss resulting from the realignment of Saddle Road.

MKFRP’s goal is to extend the forest down to the lower elevations, increasing the year-round food availability for Palila. Fenced exclosures of each site were completed in 2006. Since then MKFRP has been working to restore forest by removing feral ungulates, monitoring/maintaining fence, collecting seeds, outplanting seedlings, controlling invasive plants, removing predators from Palila Critical Habitat, and educating the public about ecology, threats and management of Palila and the high-elevation dry forest. The Hawai‘i Division of Forestry and Wildlife and the Pacific Cooperative Studies Unit cooperatively manage this project.

#### **This event is free and open to the public:**

Thursday, April 24th at 7:00 p.m.

Bernice Pauahi Bishop Museum, PĀKĪ 1  
1525 Bernice Street, Honolulu, HI 96817



### **Ongoing Efforts**

To accommodate the expected enhanced influx of returning chicks in the next few years, management efforts will continue in 2014.

**Habitat Restoration:** From January through March 2013, while the birds were at sea, Hawai‘i Audubon Society members and other volunteers worked to remove alien plant species from the preserve and to maintain wedge-tailed shearwater burrows and nesting sites. Weekly fieldwork opportunities attracted a wide variety of participants, ranging from wildlife conservationists and scientists, to gardening enthusiasts, neighbors and young student groups. These efforts support the work done in 2011 and 2012 by professional native plant landscapers from Hui Ku Maoli Ola, who transformed a vacant house-lot into a unique example of pre-contact Hawaiian dryland coastal habitat with multiple shearwater nesting sites. Repeat volunteers have found it extremely satisfying to witness, and contribute to, the resurgence of native Hawaiian coastal plants at the Freeman Seabird Preserve.

**Colony monitoring:** Population censusing and nest monitoring for phenology, chick growth and reproductive success will continue in 2014, to augment the ongoing time series started in 2009.

**Predator Control:** The evidence of ongoing cat visitation underscores the continued threat from predation at the Freeman Seabird Preserve. Ongoing surveillance for predators is planned during the 2014 nesting season, to document and minimize new instances of cat predation on the shearwater colony.

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**[www.facebook.com/hawaiiaudubonsociety](https://www.facebook.com/hawaiiaudubonsociety)**

## Hawai'i Audubon Society Membership/Donation Form

- ☐ \$25 Regular Member
- ☐ \$15 Student Member
- ☐ \$40 Family Membership
- ☐ \$100 Supporting Member

- International Membership:
- ☐ \$28 Canada & Mexico
  - ☐ \$33 Other

☐ \$ \_\_\_\_ Donation

Donations are tax-deductable and greatly appreciated.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

- ☐ E-mail me the 'Elepaio    ☐ Mail me the 'Elepaio    ☐ E-mail me volunteer opportunities, updates, & field trips.

Thank you for your concern and commitment to protecting Hawaii's native wildlife and ecosystems.

Pay by credit/debit card at [www.hawaiiaudubon.org](http://www.hawaiiaudubon.org).

Please make checks payable to **Hawai'i Audubon Society**

Mail form and payment to 850 Richards St., Suite 505, Honolulu, HI 96813

## Upcoming Field Trips, Volunteer Opportunities & Events

Please RSVP with name and contact information to

Hawai'i Audubon Society at 808-528-1432 or [hiaudsoc@pixi.com](mailto:hiaudsoc@pixi.com)

### Habitat Restoration at Freeman Seabird Preserve

**Saturday, March 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup> from 9am to noon**

Help maintain native plants and remove invasive plants, trash, and debris. We will meet every Saturday at Triangle Park near Diamond Head at 8:45am to carpool to the site. Bring drinking water, and sun and rain protection. Please RSVP.

### Sunset and Shearwaters: Volunteer Appreciation Night

**Saturday, March 15<sup>th</sup> from 5pm-sunset**

We want to say MAHALO NUI to all of our volunteers at the Freeman Seabird Preserve for all of their hard work restoring the native habitat for the Wedge-tailed. Join us for a potluck and BYOB at the Freeman Seabird Preserve at Black Point. RSVP.

### Makapu'u Lighthouse Hike

**Wednesday March 26<sup>th</sup> at 8:30 am**

Join Hawai'i Audubon Society in this coastal hike in search of humpback whales and migratory seabirds! Meet at the lower parking lot at 8:30 am. Please RSVP.

### Educational Talk: "Feathered Oceanographers: Natural History of Hawaiian Seabirds"

**Wednesday, April 2<sup>nd</sup> at 6:30pm**

Join us at the Waikiki Aquarium for this presentation that reviews the ecology of tropical seabirds and showcases the latest findings concerning the natural history of Hawaiian species. The objectives of this presentation are to highlight the amazing adaptations of oceanic birds, and the novel techniques marine scientists are using to study their habits and habitats at sea. David Hyrenbach is an Associate Professor of Oceanography at Hawai'i Pacific University. Door opens at 6:15. Seating is limited. Please RSVP.

### Paiko Lagoon Tour: Farewell to the Shorebirds

**Saturday, April 12<sup>th</sup> at 8am**

Explore the lagoon while learning about Hawaii's visiting shorebirds. Meet at Kuli'ou'ou Road at 8am. Wear hats, sunscreen, and protective shoes. RSVP to Alice at 808-864-8122 or Hawai'i Audubon Society.

### Honolulu Zoo with Wendy Johnson

**Sunday, April 13<sup>th</sup> at 9am**

Join HAS for a special tour of the Honolulu Zoo's bird exhibits led by Jimmy Breeden, Curator of Birds. Visit the bird propagation facilities; see native birds and amazing varieties of Birds of Paradise and other exotics. Space is limited to 10 people. Please RSVP.

### Educational Talk: "Palila Habitat Restoration on Mauna Kea"

**Thursday, April 24<sup>th</sup> at 7pm**

Join us for at The Bernice Pauahi Bishop Museum, PĀKĪ 1 for an informative talk by Robert Stephens, coordinator of the Mauna Kea Forest Restoration Project, on the habitat restoration of Palila habitat on the slopes of Mauna Kea. More information on page 6. Please RSVP.

### Visit to Red-Footed Booby Colony at Mokapu Peninsula

**Sunday, May 31<sup>st</sup>**

Join HAS on a guided walk to the Red-Footed Booby Colony at Mokapu Peninsula on the Marine Corps Base Hawai'i. Space is limited to 15 people. More details about meeting time and location to come.



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## Calendar of Events

Habitat Restoration at Freeman Seabird Preserve  
Saturday March 8<sup>th</sup> 15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup> - 9am to Noon

Sunset and Shearwaters: Volunteer Appreciation Night  
Saturday, March 15<sup>th</sup> from 5pm-sunset

Makapu'u Lighthouse Walk  
Wednesday, March 26<sup>th</sup> at 8:30am

Educational Talk: "Feathered Oceanographers: Natural History  
of Hawaiian Seabirds"  
Wednesday, April 2<sup>nd</sup> at 6:30pm

Paikō Lagoon Tour: Farewell to the Shorebirds  
Saturday, April 12<sup>th</sup> at 8:00am

Honolulu Zoo with Wendy Johnson  
Sunday, April 13<sup>th</sup> at 9am

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