

A Day on Midway

by Wendy Johnson, HAS President, with special thanks to Aloha Airlines and Midway Phoenix Corporation

The inauguration of Aloha Airlines' scheduled service between Honolulu and Midway was celebrated on President's Day weekend (Feb 19-20). About ninety special guests, including government officials, journalists, local business people and community leaders, were invited by Midway Phoenix Corporation, Aloha Airlines and the U.S. Fish and Wildlife Service for an overnight stay at the Midway Atoll National Wildlife Refuge. Although Midway has long been known for its pivotal role in World War II, it is now the site of vital wildlife conservation activities and offers unique opportunities for environmental tourism. Since 1996 up to 100 visitors at a time have been welcome on Midway, due to a cooperative agreement between the U.S. Fish and Wildlife Service and privately owned Midway Phoenix Corporation which provides for the support of necessary infrastructure and services. Before boarding the flight in Honolulu passengers watched a preview showing of the fascinating BBC production "Midway: Island of Life" which is scheduled to be broadcast on the Discovery Channel in June. After a pleasant three hour flight covering about 1,150 nautical miles over the northwestern Hawaiian Archipelago, visitors arrived on Sand Island at Midway Atoll by 8pm.

Airline arrivals and departures are scheduled at night in order to reduce the likelihood of encountering a bird in flight. Even in the dark, the birds were an impos-

whistles provided an uninterrupted chorus.

Midway is the site of the world's largest Laysan and second largest black-footed albatross colonies in the world.

During the winter nesting season there are hundreds of thousands of birds on the three tiny islands which make up Midway Atoll. In February, the albatross chicks were newly hatched, with both parents attending a single chick around the clock. Because these birds are completely accustomed to human presence and without predators on the atoll, visitors enjoyed a unique and constant wildlife experience as they walked or biked around Sand Island. Three endangered short-tailed albatross, known as the "golden gooney" because of the distinctive pale gold coloring of their head and neck feathers, have been spotted at Midway this year, and energetic bike-riders who made their way to Frigate Point were rewarded with the sight of one large male bird. Only about 500 short-tailed albatross remain in the world, nesting on the Japanese island of Torishima. A volcanic eruption and poaching by plume hunters there brought the golden gooney close to extinction in the

first half of the twentieth century. The U.S. Fish and Wildlife Service personnel hope that the short-tailed albatross will



A pair of Laysan Albatross with their offspring

ing presence. Nesting Bonin petrels were readily identifiable by the sound of their characteristic moans and squeals, while the albatross families' gentle groans and

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eventually begin nesting on Midway Atoll.

Almost 100 different species of birds are known to visit Midway throughout the year, and many of the migratory shorebirds were seen in February. Bristle-thighed curlews were spotted, along with Pacific golden plovers and ruddy turnstones. White terns fluttered around the trees and red-tailed tropicbirds were seen nesting on the ground under naupaka. On Eastern Island, visitors saw red-footed boobies and great frigatebirds, along with black noddies nesting in the ironwood trees. By mid-morning, guests exploring the islands were already eagerly trading stories about what they had seen: sparkling white coralline beaches and pristine, multi-hued lagoon waters, amazing birds, napping monk seals, spinner dolphins, sharks and fish. Other highlights of the 24-hour Midway

holiday included:

*Comfortable accommodations in the



Black-footed Albatross with chick

newly remodeled military Bachelor Officer's Quarters

*Delicious breakfast buffet at the Clipper House Restaurant known for its fine French cuisine and stunning sunset views

*Informative orientation slide show by Rob Shallenberger, U.S. Fish and Wildlife Service Refuge Manager

*Choice of island tours featuring historical and biological points of interest

*Open House at guest services offices: Midway Sport Fishing, Midway Sport Diving, Oceanic Society Expeditions and USFWS

*Delectable lunch at The Galley, an historic site featuring a variety of international dishes and fresh vegetables grown in the hydroponics garden

*Tour to Eastern Island aboard a World War II landing craft

*Shore fishing opportunities on a catch and release basis

*Variety of recreational opportunities: swimming, snorkeling, bike riding, volleyball, tennis, bowling and more.

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Paradise Pursuits Games in Progress

by *Suzan Harada,*
Paradise Pursuits Coordinator

The O'ahu preliminary games are over. There were a number of exciting games and certainly every team really did its best! A big MAHALO to the coaches and students for studying, organizing themselves and playing! All the teams did a great job of being good sports and having a lot of aloha for their fellow competitors.

Another big MAHALO for the O'ahu volunteers. Colonel Larry Kimmel and Wendy Johnson from the Hawaii Audubon Society Board of Directors; Marilet Zablan, Ron Walker and Craig Rowland from USFWS; Bob Moore, Reese Liggett and Betsy Wetherford from Sierra Club; Annette Ka'ohelauli'i from the Eco-Tourism Association; Ray Tabata from Sea Grant Extension; and Mary Bell, Mike Farin, Jason Olsen, and Connie Ko. Many

of the volunteers are professionals working in Hawaiian natural resources and were quite impressed with the level of knowledge the teams demonstrated. The winners from O'ahu are 'Aiea, 'Iolani, Kaimuki and Leilehua. Congratulations!

The Maui games were played on March 11 at the Hawai'i Nature Center at 'Iao. King Kekaulike and Lahainaluna battled it out with Lahainaluna winning the competition. The Maui business community is quite supportive of the games and their prizes reflect their commitment to the students, the most coveted being the trip to Pu'u Kukui generously donated by Maui Land and Pine. Hawaii Audubon Society member Renate Gassmann-Duvall does a terrific job of organizing volunteers and prizes on Maui. A warm ALOHA and MAHALO to Renate and Fern Duvall, Ann Inouye, Amy Carter, and Jim Morgan for their kokua

The O'ahu and Maui winners will be playing the winning team from Hawai'i on Friday, April 14 at 'Olelo studios. The winners from these games will then play in the semi-final and final games on KITV on April 15.

Another huge MAHALO goes to The Jonathan Starr Foundation of Kahului, Maui, who donated \$250.00 for Hawai'i Atlases for the winning team. We are also very lucky to have aloha come a long way from Mr. Robin Brent in Arlington, Virginia. Mr. Brent also made a donation to help with the cost of those atlases. We are most appreciative. The team members who win those Atlases will find them a valuable resource that they can use for years to come. MAHALO Jonathan Starr Foundation! MAHALO Mr. Brent!

Remember to watch the games as they are broadcast on KITV on the following Sundays, April 23, 30 and May 7, all at 4:00pm.

Hawai'i Seabird Project Soars to New Heights

by *Sharon Reilly,*
Project Coordinator

In 1994 the O'ahu Albatross project began with the goal of attracting albatrosses to Kaohikaipu Island off Makapu'u Point. Volunteers were recruited to do observations of the island to see if in fact albatrosses would land there and nest. The volunteers, mainly HAS members, logged hundreds of hours of observation and did witness a few albatross landings and flybys. However as of this month, the O'ahu Albatross attraction project is complete and the decoys have been removed. Mahalo to all of the volunteers who assisted with the observations over the past six years. If you were not able to participate in the O'ahu Albatross Project, there is no need to fret. The Albatross project has not ended but is instead being expanded in order to assist with the conservation of other seabird species. Many new activities are being planned for the upcoming year. We are looking for additional volunteers to do beach cleanups at

select seabird nesting sites, to monitor seabird colonies, to assist in the rescue and rehabilitation of newly fledged birds, and to give classroom presentations on Hawai'i's seabirds. In addition we hope to relocate the albatross project to another appropriate site in order to develop this restoration technique for albatrosses.

In addition to new activities, new partners have joined in our effort to protect Hawai'i's Seabirds. The Hawai'i Seabird Project recently received a grant from the Tesoro Foundation to develop interpretive displays that will be installed at selected sites around O'ahu. Join us to learn how you can help protect Hawai'i's Seabirds. The next Hawai'i Seabird Project meeting is scheduled for Saturday April 8 at Chaminade University, Henry Hall Room 106 at 7:00 p.m. Patrick Ching, the renowned local wildlife artist, will be giving a special presentation on Wildlife of the Northwestern Hawaiian Islands. Take an enjoyable journey to the Northwestern Hawaiian Islands and visit up-close the seabirds, seals, turtles,

sharks and other animals that live there. Patrick lived and worked on these islands while working for the U.S. Fish and Wildlife Service. He will also show some of his artwork and will be available to sign his books and prints. For more information, call Sharon, 386-7029.

Other activities that are being scheduled by the Hawai'i Seabird Project include:

* Observations at Kaohikaipu for the albatross attraction project. This project is looking at a new site for next year's breeding season.

* Beach cleanups at select nesting sites.

* Monitoring Laysan albatross at Ka'ena Point.

* Assist in the rescue, banding, and release of shearwaters (fledging season October - December).

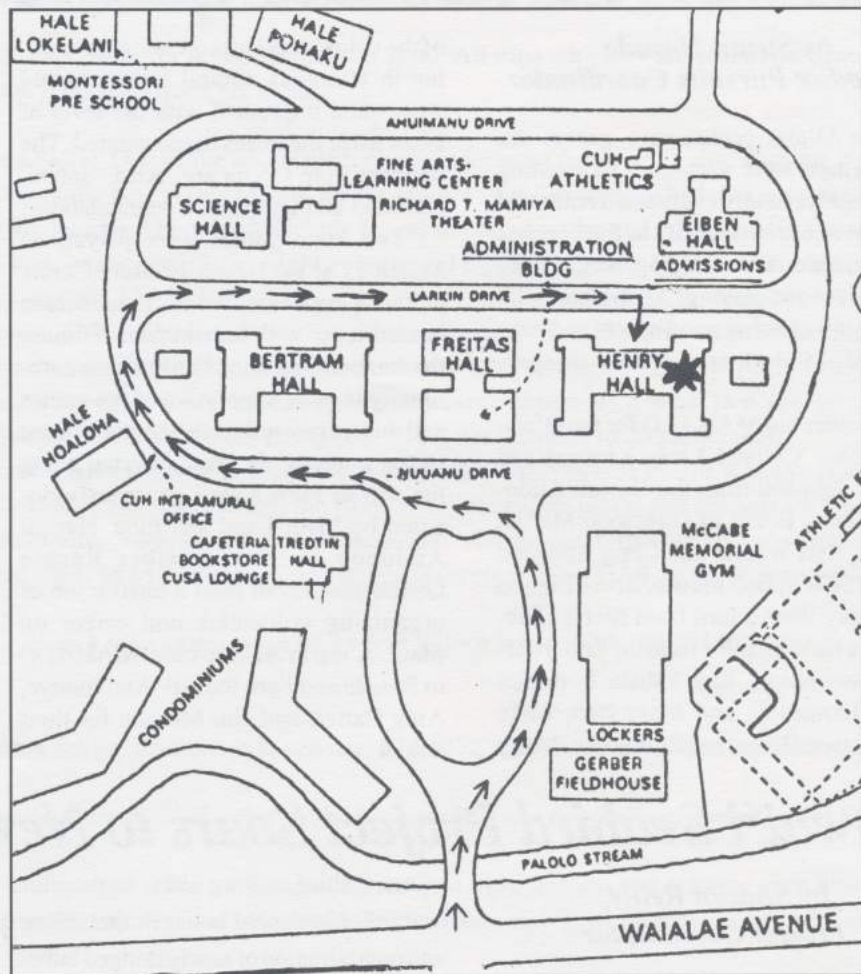
* Seabird Education Program - participate in teacher workshop and classroom presentations.

Earth Day Celebration Beach Cleanup

from Kailua Beach Pavilion to the U.S. Marine Corps Base, Hawaii on Sunday, April 16 from 9 to 11 a.m.

Program Meetings To Be Held At New Location

Our bi-monthly Program Meetings will no longer be held at Bishop Museum's Paki Hale Conference Room. The NEW LOCATION will be on the grounds of CHAMINADE UNIVERSITY/ST. LOUIS HIGH SCHOOL IN KAIMUKI, HENRY HALL ROOM 106. The entrance to the campus is between St. Louis Drive and Palolo Avenue, and is well-marked by signs. Parking is available off Larkin Drive behind Henry Hall. As you enter the campus, bear right around the oval and turn left at Nu'uaniu Drive. Turn right at Larkin Drive and enter the first floor of Henry Hall from the back of the building.



April Program Meeting on Predator Control

Wildlife Biologist Tonnie Casey will speak about predator control, specifically targeting rats, mice, mongooses and feral cats. This approach has been used in Keauhou Ranch, Ka'u to reduce these small mammals in areas containing endangered species of birds and plants. New registrations for conservation areas were needed to use toxicants in bait boxes to increase area coverage where three species of Hawaiian honeycreepers were in decline. Members of the US Fish and Wildlife Service, the State Department of Forestry and Wildlife, the State Department of Health, APHIS, Kamehameha Schools, The Nature Conservancy Hawai'i, and National Park Service came together to solve this problem by creating the Toxicant Working Group which meets regularly to continue research for management in areas deemed critical habitat for both endangered birds and plants. This research has had promising results, as the numbers of the rare 'akiapola'au have spread. Experimental Use Permits have been granted by the Environmental Protection Agency and it is hoped that an aerial broadcast registration will be forthcoming. The Program meeting will be at St. Louis High School/Chaminade University's Henry Hall, Room 106 (see map above) The meeting is from 7:30-9:30 p.m. Refreshments provided. HAS publications, tapes, patches, T-shirts, our 60th anniversary poster, and our new map will be available for purchase. See you there!

Annual HAS Black Point Cleanup

by Dan Sailer, Conservation Chair

On March 11, volunteers from the Society, along with the Hawai'i Seabird Project, Chaminade University, and visiting biologists converged on Kupikipiki'o (Black Point) on O'ahu. After a Manu-o-Ku (white tern) flew overhead to bring us good luck and bless our efforts, we quickly toured the wedge-tailed shearwater nesting colony and began our cleanup of the shoreline area and reef. Once more we removed a truckload of trash and several bags of fishing line and tackle from coral heads offshore.

The nesting success rate at Kupikipiki'o has severely declined in recent years due to predation by neighborhood cats and dogs as well as mongoose, rats, and human harassment. However, local residents at nearby Ka'alawai beach have helped five pairs of shearwaters successfully fledge their chicks through live trapping of predators in their yards.

Hopefully, increased public education efforts in the coming nesting season for the shearwaters (March through November) will also help alleviate some of the threats to birds attempting to nest in the area, and mark the beginning of a comeback at Kupikipiki'o. For more information on upcoming Hawai'i Seabird Project activities, call Sharon Reilly at 386-7029 (or email shareilly@aol.com).

Service Trip to Kilauea Point Wildlife Refuge

by *Mary Gaber,*
Field Activities Coordinator

The second annual Society service trip to the Refuge took place during the Presidents' Day weekend, February 19-21. Eight of us worked for two days on the upkeep of the trail we had helped build last year. We also did weeding, watering of the native plants, and painting the wooden guard rails.

Our orientation tour of the facility took us up to the top of the Kilauea Point Lighthouse, giving us a magnificent view of the whales and birds in the area. There are now over 150 nene (Hawaiian goose) in the Refuge, and we had a "guard goose" right outside our door; he was guarding his mate's nest in the shrubs nearby. We saw both red- and white-tailed tropicbirds and a

very rarely seen (in Hawai'i, that is) red-billed tropicbird. The thousands of red-footed boobies were busy nestbuilding; the Laysan albatrosses were courting and brooding. We also saw plovers and heard meadowlarks, and there was a possible sighting of a pueo (Hawaiian owl) at

dusk. The most unusual sighting: a grey rabbit, no doubt an escaped pet.

We were also given a tour of the potting shed where seedlings and cuttings from native plants are propagated. The aheahea, ulei, hala, alula and koa are used throughout the Refuge to replace alien species.



Pictured are the hard-working crew, from left to right, Barbara Black, Dorothy Deimel, Mary Gaber, Erica Ehrhorn, Dan Sailer, Jean Carr, and Liz Bailey; in front, Susan Cromer.

Shark Conference 2000

by *Linda Paul, Executive Director of Western Pacific Fisheries Coalition*

Shark experts from 14 countries met in Honolulu February 21-24 at Shark Conference 2000 to present research and discuss the status of sharks around the globe. The conference was hosted by the Hawaii Audubon Society, the Western Pacific Fisheries Coalition, and WildAid, and sponsored by the Barbara Delano Foundation, the Homeland Foundation, the David & Lucile Packard Foundation and the AVINA Foundation. The meeting was prompted by a serious decline in shark populations world wide due to overfishing, excessive bycatch, environmental factors, and finning. Sharks, skates and rays are one of the oldest and most varied groups of aquatic animals on the planet, surviving for over 400 million years. Only now is their existence threatened - by the actions of humans. Last year an estimated 50 million sharks, skates and rays were caught. Speaker after speaker noted alarming declines in many

shark populations, coupled with a reduction in the quantity and accuracy of data collected, the exponential increase in finning that is decimating stock after stock and making good management impossible, and the proposed listing for the first time ever of three species of sharks on the CITES appendices as species threatened by trade.

After two days of presentations by the experts, the conferees met in a series of workshops to come up with recommendations for sustainable management of shark stocks, reduction of shark bycatch, reduction of shark finning and the consumption of fins, implementation of the United Nations International Plan of Action for Sharks ("IPOA-SHARKS"), and promotion of shark conservation globally. At the conclusion of the conference the participants called for the creation of a global strategic plan to conserve and manage shark, skates and rays

within the framework of IPOA-SHARKS, including 1) an operational plan to improve stock assessments and data collection, and incorporate the results into the decision-making processes, 2) a program to assist developing States with expertise, training and costs, 3) the development and promotion of artificial bait to discourage shark bycatch, 4) a media-based education campaign to raise awareness of threats to sharks and reduce bycatch and the demand for shark fins, 5) the establishment of international criteria for implementation of vessel monitoring systems, and 6) the development of a biodiversity initiative to protect the some 1200 species of sharks, skates and rays, including identification of species, basic life history parameters, habitats and distributional ranges.

Attendees were from the United Kingdom, France, Italy, Canada, Mexico, Brazil, Saudi Arabia, South Africa, Australia, New Zealand, Philippines, China (Hong Kong, Taiwan), and the United States.

Field Trips for 2000

Here is the updated list of field trips either scheduled or being planned for 2000. All trips with an * are still in the process of being planned. Details will be provided as the scheduled dates get closer.

- April 9 'Aiea Ridge Trail with Dan Sailer. One of the best trails for upper-elevation forest on O'ahu. Possible to see 'apapane and 'amakihi. One of the best places to look for the elusive O'ahu creeper, which has only been seen several times in the past two decades. Other birds include Japanese bush-warbler and white-rumped Shama. Plants may include 'ohia, koa, 'olapa, and 'ie'ie. Eight miles round trip. Participants 12 years and older, please. Call HAS office to register, 528-1432.
- April 20 Red-Footed Booby Colony at KMCAS to see new chicks. On our January visit, the birds were building nests, so we can anticipate a new chick in most of the nests. Remember to have all the necessary papers in your car to get on the Base — driver's license, car registration and car insurance papers are a must. Don't forget your camera for the great photo-ops. Call Mary Gaber to register, 247-0104. Limited to 20 participants.
- May 20th Service Trip to Pahole Natural Area Reserve to plant native seedlings. The 658 acre Pahole Reserve is a low-land mesic forest in the Mokule'ia foothills. Within the Reserve are Hawaiian plants and animals such as 'oha wai, a rare lobeliad; palapalai fern; 'ohia lehua trees; 'amakihi and 'elepaio birds; the "happy-face" spider, and pupu kani oe, or O'ahu tree snail, an extremely rare and imperilled animal. Call HAS office to register, 528-1432.
- June 17 Pelagic Birding boat trip - about 5 seats open on a 43-foot boat to look for seabirds. Call HAS office to reserve a place, 528-1432.
- June ? *Tide Pools
- July 8 Poamoho Trail led by Sharon Reilly. Call office to register, 528-1432. Limited to 10-15 participants. About 5 miles round trip.
- July 23 Kamananui (Moanalua) Valley Family Walk - this valley is where H-3 was originally supposed to go! There are petroglyphs and more.
- August 20 Native Forest Bird Captive Propagation Unit at Honolulu Zoo. Two trips, 9:30am and 1:30pm, each limited to 10 people. This is a very popular trip. See and hear 'amakihi, 'apapane, and 'i'iwi up close, along with an aging but charming Laysan finch.
- September 4 Keauhou on the Big Island - trip to see forest birds
- October 28 James Campbell National Wildlife Refuge
- November 25th 'Ewa Plains Sinkholes to look for fossils of extinct Hawaiian Birds with Dr. Alan Ziegler.
- December - *Christmas Bird Count

Black-hooded Oriole Spotted in Kailua and Ahuimanu

by Linda Shapin

In early February, the HAS office got a call about a strange new bird spotted in the Duck Lane (Kainui Drive) area of Kailua. The caller described a bird about the size of a white-rumped Shama, with a beautiful song reminiscent of the Shama. The bird was bright yellow, however, with a black head and some black feathers in the wings. It had an orange bill similar to a mynah's in shape.

When I called Bob Pyle to report this, he said another person living on the same street had also seen it and called him. Bob then spoke with Peter Luscomb of the Honolulu Zoo and they came to the conclusion that the bird was a black-hooded

oriole, a native of Southeast Asia! How did it get here? "It was probably smuggled in," said Bob, "and escaped."

On March 1, I got another excited call from a woman in Ahuimanu (Kahalu'u, across from Temple Valley) who said a beautiful songster was in her backyard. The description matched that of the Kailua oProposed O'ahu Forest National Wildlife Refuge Environmental Assessment Availableoriole! Did it "migrate" to Ahuimanu? Are there more than one? This caller said she would try to take a photograph of the bird (which we will print if we can).

If anyone else spots the bird, please call the HAS office at 528-1432.

March's 'Elepaio Mailed Out Late

We're so sorry! The labels mailed to us from National Audubon were printed off-center and were unusable. National had to send us another set. We were finally able to have our mailing service send out March's 'Elepaio on March 7, a full week late.

Two Book Reviews

"A Passion for Birds, American Ornithology after Audubon" by Mark V. Barrow, Jr. (2000. Princeton University Press. 326 pp. \$18.95)

In the decades following the Civil War many Americans became "bird watchers." By the turn of the century, hundreds of thousands of middle- and upper-class devotees were rushing to join Audubon societies, purchase field guides, and keep records of the species they encountered in the wild. In "A Passion for Birds, American Ornithology after Audubon" Mark Barrow vividly reconstructs this story not only through the experiences of birdwatchers, collectors, conservationists, and taxidermists, but also through those of a relatively new breed of

bird enthusiast: the technically oriented ornithologist. This wide-ranging book will interest ornithologists, birders, historians of science, and anyone curious about the historical roots of today's birding boom. (from News from Princeton University Press)

"The Life of Birds" by David Attenborough (1998. Princeton University Press. 320 pp. \$29.95)

Those of you who were mesmerized by David Attenborough's *The Life of Birds* series on your television screen will be thrilled to know that the adventure can be relived through the book companion published by Princeton University Press.

Attenborough's writing style is so inviting that this is a lip-smacking treat enticing bird lovers to dip in again and again to this engaging volume. As would be expected, the photographs are amazing. Just as the television series had us exclaiming "How does he DO it?" - so many photographs here jolt us with delight.

But Attenborough is mainly a writer, and that is why this book is so important. It is a beautiful gift to bird lovers - a sensory delight as well as a trove of information. Each of its ten long chapters echoes the corresponding session of the television series, but the book definitely stands on its own.

(from a review sent in by HAS member Darlene Fiske of Illinois - Mahalo!)

Proposed O'ahu Forest National Wildlife Refuge Environmental Assessment Available

A final environmental assessment ("EA") describing plans to establish a new national wildlife refuge on up to 7,112 acres of forested land on the leeward slopes of O'ahu's Ko'olau Mountains was released today (3/21/00) by the U.S. Fish and Wildlife Service. The refuge would protect threatened and endangered species as well as a myriad of other native species found only in Hawai'i.

The O'ahu Forest National Wildlife Refuge would be established on private lands in the upper elevations of Waipi'o through fee acquisition, and an overlay refuge would be established through a cooperative agreement with the U.S. Army in the upper elevations of Wai'anae Uka. Both landowners are considered willing participants, but at this time, have not made irreversible commitments to the project.

"The next step in the process is to continue working with the private landowner and The Nature Conservancy to formalize a purchase agreement," explained Robert P. Smith, Pacific Islands Manager for the Fish and Wildlife Service. "Congress has appropriated funds for the purchase, and we are optimistic that the refuge could be established within a year. At the same time, we will continue

to work with the U.S. Army to develop a cooperative agreement that would enable the overlay refuge to be established in the same timeframe."

Planning for the proposed refuge has spanned nearly a decade, and has involved coordination among a number of government agencies, private conservation organizations, and the general public. This project is the result of a partnership effort among the Fish and Wildlife Service; the private landowner, Castle and Cooke; The Nature Conservancy of Hawai'i; the U.S. Army; and the State of Hawai'i's Department of Land and Natural Resources.

Once established, the refuge will allow the Service to protect and manage a portion of some of the best remaining native forests in the northern Ko'olau Mountains. At least nine native natural communities have been identified in the project area including lowland mesic koa and 'ohi'a forest types, o'hi'a rainforest communities, a rare fanpalm (or loulu) natural community, high elevation cloud forest, and freshwater streams.

Along with a rich diversity of native plants and animals, the proposed refuge supports at least four species of endangered O'ahu tree snails, 17 endangered

plants, one candidate plant species, and two plant species of concern. Native birds that may be seen include the proposed endangered O'ahu 'elepaio, the pueo or Hawaiian owl, and O'ahu 'amakihi and 'apapane. Potential refuge management programs include endangered species recovery, habitat enhancement, alien species control, and research.

According to the EA, the Fish and Wildlife Service plans to develop opportunities for compatible public use that will include guided wildlife observation, photography, environmental education, and interpretation. The use of hunters to assist the refuge with controlling feral pigs and other nonnative wildlife is also discussed and will be managed as part of a refuge feral pig control plan that will be developed with input from hunters and the community.

Copies of the EA are available at the Hawai'i State Library and the Mililani Public Library, or by calling the Fish and Wildlife Service at 541-2749.

*Source: U.S. Fish and Wildlife Service
News Release dated 03/21/00*

Contact: Barbara Maxfield - 808-541-2749 or 342-5600



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Calendar of Events

Thursdays, April 6 and May 4 Education Committee monthly meeting, 7 p.m. at BaLe Sandwich Shop in Manoa Marketplace (near Safeway). For more information, call chairperson Wendy Johnson, 261-5957.

Mondays, April 10 and May 8: Conservation Committee monthly meeting at the HAS office at 5:45 p.m. For more information, call chairperson Dan Sailer, 455-2311.

Mondays, April 10 and May 8: HAS Board meeting, always open to all members, 6:30 to 8:30 p.m. at the HAS office.

Saturday, April 8: Hawai'i Seabird Project meeting, see article on page 19.

Sunday, April 9: Field Trip to 'Aiea Ridge Trail to see forest birds. Details on page 22.

Monday, April 17: Program Meeting Wildlife Biologist Tonnie Casey will speak on new technologies in predator control, specifically targeting rats, mice, mongooses and feral cats (See article, page 20). The Program meeting will be at our new Program meeting location, St. Louis High School/Chaminade University's Henry Hall, Room 106 (see map and article, page 20). The meeting is from 7:30-9:30 p.m.

Thursday, April 20: Field Trip to Marine Corps Base Hawai'i to see new chicks. Details on page 22.

Saturday, May 20: Field Trip to Pahole Natural Area Reserve to plant native seedlings. Details on page 22.

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