

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Necker Island. (Extracted from cards by R.B. Clapp, 23 April 1969).

<u>Species</u>	<u>Willet's Remarks</u>
Diomedea nigripes	A few were found nesting.
Diomedea immutabilis	Estimated 400 prs. on Necker Island.
Puffinus pacificus	Were plentiful in ocean in vicinity of Necker and Bird Islands, March 19, 20, and 21.
Sula leucogaster	2 noted on Necker Is. March 19
Sula dactylatra	Nesting in small numbers noted on Necker Is., Mar. 19, eggs and young seen.
✓ Fregata minor	Substantial nesting (colony or colonies) found on Necker.
Phaethon rubricauda	Rather rare on Necker Is.
Arenaria interpres	Was only wader seen on Necker Is., where 1-2 seen.
Pluvialis dominica	Plentiful on all islands visited except Necker Is.
Anous stolidus	Found nesting in moderate numbers on Lisianski and less plentifully on Necker.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Nihoa Island. (Extracted from cards by R.B. Clapp, 23 April 1969)

<u>Species</u>	<u>Willet's Remarks</u>
Diomedea nigripes	A few were found nesting on Bird Island
Puffinus pacificus	Were plentiful in ocean in vicinity of Necker and Bird Islands, March 19, 20, and 21.
Sula leucogaster	A few birds noted on Bird Island, Dec. 17.
Sula dactylatra	common bird off Bird Is., Dec. 17.
Phaethon lepturus	One or two noted near Bird Is., December 17. Those seen on Bird Is. probably stragglers from larger islands.
Phaeton rubricauda	Fairly common around Bird Is. in December.
Pluvialis dominica	Plentiful.
Anous stolidus	Several seen off Bird Is., Dec. 17

*Do itful
apparently these
were not offshore
reservations*

Willet's Observations on Necker p.2

<u>Species</u>	<u>Willet's Remarks</u>
<i>Sterna fuscata</i>	Thousands nesting on Necker Is. Most of eggs were advanced in incubation and a number of downy young seen.
<i>Anous minutus</i>	Noted on all islands visited except French Frigate Shoals
<i>Gygis alba</i>	Were found nesting on Necker Is., March 19, no young were seen; thousands seen on Necker and Bird Islands.
<i>Sterna lunata</i>	were nesting on Necker Island on steep hillsides. No young noted up to time we left islands. ((Check this back against other islands and add for each where not included--Laysan and Lisianski))
<i>Procelsterna saxatilis</i>	Were very plentiful on Necker Island where they were so tame they fluttered around our heads. One egg noted on this date ((March 19))

Willet's Observations on Nihoa p.2

<u>Species</u>	<u>Willet's Remarks</u>
<i>Anous minutus</i>	Noted on all islands visited except French Frigate Shoals
<i>Gygis alba</i>	thousands seen on Necker and Bird Islands
<i>Procelsterna cerulea</i>	very plentiful on Bird Island.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to French Frigate Shoals. (Extracted from cards by R.B. Clapp, 23 April 1969).

<u>Species</u>	<u>Willet's Remarks</u>
<i>Pterodroma hypoleuca</i>	Estimated 1000 prs. on Frigate Shoals.
<i>Diomedea nigripes</i>	About 200 pairs were nesting on French Frigate Shoals.
<i>Diomedea immutabilis</i>	Estimated 200 pairs on French Frigate Shoals.
<i>Puffinus pacificus</i>	Only ones seen during winter were a nearly grown young on French Frigate Shoals, Dec. 19 . . .
<i>Sula dactylatra</i>	About 40 pairs nesting on Frigate Shoals, Dec. 19.
<i>Phaethon rubricauda</i>	Fairly common around Bird Island in December, also around Frigate Shoals.
<i>Arenaria interpres</i>	Common on all islands made of sand (in reference to all islands visited-RBC).
<i>Pluvialis dominica</i>	Plentiful on all islands visited except Necker Island. (Bird, Frigate Shoals, Lisianski, Pearl and Hermes visited)
<i>Numenius tahitiensis</i>	Several seen on Frigate Shoals , Dec. 19.
<i>Crocethia alba</i>	3 seen on Frigate Shoals, Dec. 19.
<i>Anous stolidus</i>	200 prs. nesting on Frigate Shoal, Dec. 19, and newly hatched young seen.
<i>Anous minutus</i>	Noted on all islands visited except French Frigate Shoals.
<i>Procelsterna cerulea</i>	Were fairly common on French Frigate Shoals.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1911-1913. Data pertaining to Laysan Island (Extracted from cards by R.B.Clapp, 7 April 1969)

<u>Species</u>	<u>Willet's Remarks</u>
Hemidactylus garnotii	Observed on Laysan Island; occasional. (This observation is of particularly significance since it is the only other record of this lizard's occurrence on Laysan besides the one published as a result of the Albatross visit in 1902.- RBC)
Monacus schauinslandi	An adult taken on Laysan Island
Ablepharus boutonii	Observed on Laysan Island, abundant
Pterodroma hypoleuca ✓	Was most abundant bird on the reservation during our stay. Estimated 50,000 prs. on Laysan Island. On Dec. 22 when we arrived on Laysan, the birds were courting and preparing to nest. Nesting began in January, with the first egg noted Jan. 9. A very considerable mortality noted, hundreds smothered to death in burrows from drifting sand. Not seriously affected by losses as numbers are so considerable.
Oceanodroma tristrami ✓	Estimated there were about 10,000 pairs nesting on Laysan Island on arrival Dec. 22, 1912. The birds on Laysan nest low and the water would often rise and drown the birds in the burrows, so the percentage of young raised raised to maturity must be quite small. Est. that about 20% of the birds succeeded in raising young this spring (1913). The eggs are laid in late December and early January; if the first is lost another egg is deposited. Measurement of 6 breeding males and 6 breeding females given in report.
Diomedea nigripes	The nest by actual count on Laysan Is. were 7722, or a total of over 15,000 birds. Count was made in Feb. when all eggs were laid. This species begins nesting by Dec. 15 and all eggs are laid by Jan. 15. Incubation period found to be 31 days. This species has a very low death rate, and does not reneest if the first is unsuccessful. First young were noted Jan. 21 and soon became plentiful.
Diomedea immutabilis	. . . actually counted 12,231 prs. Laysan Is. (Dill had reported 180,000 on Laysan Is., and there was nothing to indicate that the birds had been disturbed since his visit in 1911). Mortality is rather high and est. that 50% are lost. of 12,321 nests found on Laysan, 9201 were occupied and 3126 were deserted. First young noted Jan. 22. This species does not reneest if first nesting is unsuccessful.
Buffinus pacificus ✓	Only (bird seen during winter) was a dying bird on Dec. 24. Began appearing March 10 when 3 were seen on Laysan. (Context of remarks on other islands suggests that none were found breeding on Laysan).
Puffinus nativitatus ✓	First seen on Laysan Is., Feb. 13, when 2 were seen by Bailey; had become abundant by March 11, when they were seen all over the Island. At this time they were courting and nest building.

Species	Willet's Remarks
<i>Sula sula</i>	Not very common on Laysan during winter; becoming more plentiful in spring. On March 11, about 50 prs. notes nest building building in vicinity of Frigate birds altho latter persecuted them.
<i>Sula leucogaster</i> ✓	One noted on Laysan, Jan. 21.
<i>Sula dactylatra</i> ✓	A few prs. beginning to nest on Laysan Is. Dec. 22. (Dill reported about 65 birds May 1911) There are about 100 prs. here at time of this visit. Most of nests contained two eggs.
<i>Fregata magnificens</i>	Found common, but mostly immatures on arrival in Laysan Island, Dec. 22. Adults began arriving after first of the year and were still arriving March 11. Est. 3000 birds on area March 11, 1913 (Dill reported 12,500 present here May 1911) Were nest building by middle of January and first eggs were found Feb. 4.
<i>Phaethon rubricauda</i> ✓	2 nearly grown young seen on Laysan latter part of December and a few downy young seen in January together with a few eggs. A few pairs winter on Laysan and by March 15 were becoming rather plentiful.
<i>Anas platyrhynchos</i>	A pair seen on Laysan from Dec. 22 to February 9 frequenting fresh water pond.
<i>Anas acuta</i>	Flock of 15 seen Dec. 24 when flushed from vicinity of fresh water pond on Laysan Is. Small flocks seen several times during first part of January after which they disappeared.
<i>Anas laysanensis</i>	7 individuals found on Laysan Is. composed of 3 pairs and an odd male. Were very tame, have no enemies on the island. Had not started to nest at time of our visit, Dec. 22-Mar. 11.
<i>Spatula clypeata</i>	Flock of 6 birds seen on Laysan Island, January 30 and again on Feb. 11.
(Bufflehead)	An adult female taken by member of party,
<i>Porzana palmeri</i>	Very plentiful over Laysan Is. Noted stealing petrel and tern eggs. One seen swimming across across a pond, a distance of about 15 feet. Not nesting when we left March 11.
<i>Arenaria interpres</i> ✓	Very abundant on Laysan Island. Noted in thousands on Laysan.
<i>Squatarola squatarola</i>	2 seen on Laysan Is. , Dec. 27 and one was secured; single birds noted several times during the remainder of our stay.
<i>Pluvialis dominica</i> ✓	Plentiful
<i>Numenius tahitiensis</i> ✓	Abundant on Laysan Island.
<i>Erolia alpina</i>	Only one seen, an adult female which was taken on Laysan Island.

Species	Willet's Remarks
Crocethia alba ✓	Occasionally seen on Laysan Island during winter and spring.
Phalaropus fulicarius	First noted this date (1-6-13) on Laysan Island. Frequently noted in flocks of plover and turnstone until middle of February. A specimen was secured.
Larus glaucescens	Immature in gray plumage taken by Bailey on Laysan Island (1-25-13)
Larus philadelphia	Immature female taken by Bailey on Laysan (12-27-12)
Heteroscelus incanum ✓	Very common around lagoon and on the beaches during our stay on Laysan Island.
Anous stolidus ✓	Laysan had about same number nesting there (200 prs.) and by January 1 young birds were fairly plentiful. Many young were flying and fishing for themselves by first of March on Laysan.
Sterna fuscata ✓	Occasionally seen during January and February on Laysan Is. Numbers increased rapidly after middle of February and became abundant by Mar. 11, but had not begun to nest.
Anous minutus ✓	Most plentiful on Laysan where there were 1500-2000 nesting pairs. Many nests contained eggs Dec. 24. Young first noted Jan. 17. About half of first nesting unsuccessful, due to eggs rolling out of nests or trampling of young birds. Were renesting Feb. 20, when nest rebuilding noted and by Mar 1, eggs were plentiful again.
Cygis alba ✓	2-3 pairs noted on Laysan on our arrival in December, increased gradually and by March 1 about 40 pairs present. First egg noted December 29 and by Jan. 4 an egg had hatched; this young bird was was flying with old birds March 10.
Sterna lunata ✓	Occasionally seen on Laysan during winter. Became plentiful after February 1 and by early March were nesting abundantly. First eggs noted Feb. 24 24.
Telespiza cantains	Abundant on Laysan Island. Food buds and seeds, mainly mainly from the vine <u>Tribulus cistoides</u> . Prone to eat eggs of absent owners.
Acrocephalus familiaris	Least plentiful of the land birds on Laysan, but seem to be holding their own, and in no present danger of extermination. Estimated there are now at least 600 on island.
Himantione fraithii	Common on Laysan where there appears to be no danger of extinction. Not nesting during our stay.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Lisianski Island. (Extracted from cards by R.B.Clapp, 9 April 1969)

Species	Willet's Observations
Monacus schauinslandii	2 seen on Lisianski Island.
✓ Pterodroma hypoleuca	Estimated 20,000 prs. on Lisianski Is.
Diomedea nigripes	Estimated 300 prs. nesting on Lisianski
Diomedea immutabilis	Estimated 100 pairs on Lisianski
✓ Puffinus pacificus	(Not seen on Lisianski during winter - no comment made as to their presence in March- RBC)
✓ Puffinus nativitatus	1 pair was seen on Lisianski, March 12
✓ Sula sula	30 pairs noted nesting on Lisianski Is., in company with Frigate birds. Some on nests contained fresh eggs.
✓ Sula leucogaster	About 12 birds seen on Lisianski Is., March 12.
✓ Sula dactylatra	Rather common on Lisianski Is., March 12.
✓ Fregata minor	Substantial nesting colony (or colonies?) found on Lisianski
✓ Phaethon rubricauda	(Presence not noted in card extracts of Willet's notes-RBC)
Porxanula palmeri	We liberated 40 on Lisianski Island, under favorable conditions.
✓ Arenaria interpres	"Common on all islands made of sand" (but Lisianski not specifically mentioned - RBC)
✓ Pluvialis dominica	Plentiful
✓ Numenius tahitiensis	Common
✓ Crocethia alba	Fairly common on Lisianski March 12.
✓ xxxxxxkxxxxxxxxxxxxxxxx Heteroscelus incanum	(Not mentioned in card extracts of Willet's Report with regard to Lisianski - RBC) (Not mentioned in card extracts of Willet's Report with regard to Lisianski - RBC)
✓ Anous stolidus	Found nesting in moderate numbers on Lisianski
✓ Sterna fuscata	Were plentiful on Lisianski Island, March 12.
✓ Anous minutus	Noted on all islands visited except French Frigate Shoals
✓ Cygus alba	(Not mentioned as occurring on Lisianski on cards - RBC)
✓ Sterna lunata	Nesting in considerable numbers on Lisianski Is., March 12.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Pearl and Hermes (Extracted from cards by R.B.Clapp, 23 April 1969)

<u>Species</u>	<u>Willet's Remarks</u>
<i>Pterodroma hypoleuca</i>	(estimated) 1500 prs. on Pearl and Hermes Reef.
<i>Diomedeanigripes</i>	About . . . 300 prs. on Pearl and Hermes Reef.
<i>Diomedea immutabilis</i>	(estimated) 300 prs. on Pearl and Hermes Reef.
<i>Sula leucogaster</i>	One seen on Pearl and Hermes.
<i>Sula dactylatra</i>	About 50 prs nesting on Pearl and Hermes Reef; most of nests here contained eggs, but 2-3 had recently hatched young.
<i>Fregata minor</i>	. . . a small colony seen on Pearl and Hermes Reef.
<i>Arenaria interpres</i>	Common on all islands made of sand.
<i>Pluvialis dominica</i>	Plentiful
<i>Numenius tahitiensis</i>	several seen on Pearl and Hermes Reef.
<i>Sterna fuscata</i>	1 noted on Pearl and Hermes Reef March 15
<i>Anous stolidus</i>	Found nesting in moderate numbers on Lisianski and less plentifully on Necker and Pearl and Hermes Reef.
<i>Anous minutus</i>	Notes on all islands visited except French Frigate Shoals.

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Laysan Island (Extracted from cards by R.B.Clapp, 9 April 1962).

<u>Species</u>	<u>Todd's Observations</u>
<i>Monacus schauinislundii</i>	Large seal, estimated to weigh 600-700 lbs. found dead on beach at Laysan 8 September 1918.
<i>Chelonia mydas</i>	Were in a bundance along the beach on Laysan Island. Many caught by crew weighing 20-300 pounds (Entry is listed under Loggerhead Turtle but almost certainly pertains to the Green Sea Turtle - RBC)
<i>Pterodroma hypoleuca</i>	Next to most common species on Laysan Island and estimate of 250,000 considered conservative.
<i>Diomedea nigripes</i>	None seen on trip to Laysan Island
<i>Diomedea immutabilis</i>	Noticeable scarcity of this species on Laysan. usually seen in threes, 2 adult and an apparently young bird. No nests or very young seen.
<i>Puffinus pacificus</i>	Marked increase noted over numbers observed in 1911 by the expedition.
<i>Puffinus nativitatus</i>	Noted continusally, no count attempted.
<i>Sula sula</i>	Not more than a dozen seen on Laysan
<i>Sula leucogaster</i>	(Evidently not mentioned by Todd-RBC)
<i>Sula dactylatra</i>	4-5 seen near lagoon on Laysan, no nests nor young seen.
<i>Fregata minor</i>	Estimated about 16,000 on Laysan including the young; nests located around the lagoon, placed on high bushes.
<i>Phaethon rubricauda</i>	Very few noted on Laysan.
<i>Anas laysanensis</i>	Quite numerous on Laysan; one flock of 20 seen; also groups of from 2-6 seen.
<i>Porzanula palmeri</i>	Often seen on Laysan Island. No estimate of figures attempted.
<i>Arenaria interpres</i>	Seen in large flocks on Laysan Island.
<i>Pluvialis dominica</i>	(Evidently not mentioned in Todd Report - RBC)
<i>Numenius tahitiensis</i>	Were in numbers on all parts of Laysan, estimated at least 1,000 present.
<i>Heteroscelus incanum</i>	One seen on Laysan Island.
<i>Anous stolidus</i>	(Evidently not mentioned in Todd Report - RBC)
<i>Sterna fuscata</i>	Most common species on Laysan; nests distributed generally over the island. Estimated 500,000

<u>Species</u>	<u>Todd's Observations</u>
Anous minutus	Found only in lowlands near lagoon; no nests nor young found; estimated population at 2000
Gygis alba alba	Pair seen flying about beach at Laysan, 3 more later seen later on island.
Sterna lunata	Not observed on trip to Laysan.
Telespiza cantains.	Seen in large numbers on Laysan Island.

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Kure Atoll (Extracted ~~by R.B.Clapp~~ from cards by R.B.Clapp, 23 April 1969)

<u>Species</u>	<u>Todd's Remarks</u>
Pterodroma hypoleuca	Noted on Kure or Ocean Island. (Sept. 15, 1918)
Diomedea nigripes	Noted on Kure or Ocean Island.
Diomedea immutabilis	Note (sic) on Ocean or Kure Island
Gygis alba	Noted on Kure or Ocean Island.

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Nihoa Island (Extracted from cards by R.B.Clapp, 23 April 1969).

<u>Species</u>	<u>Todd's Remarks</u>
Diomedea nigripes	Noted on Bird Island (Sept. 2, 1918)
Diomedea immutabilis	A few seen on Bird Island.
Puffinus pacificus	Noted on Bird Island
Gygis alba	
Sterna fuscata	Noted on Bird Island

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Necker Island (Extracted from cards by R.B.Clapp, 23 April 1969).

<u>Species</u>	<u>Todd's Remarks</u>
Sula sula	Noted on Necker Island (Sept. 3, 1918)
Gygis alba	Noted on Necker Island
Phaethon rubricauda	Noted on Necker Island
Sterna lunata	Noted on Necker Island
Numenius tahitiensis	Noted on Necker and Frigate Shoals; nesting on latter island.
Sterna fuscata	Noted on Necker Island

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Date pertaining to French Frigate Shoals. (Extracted from cards by R.B.Clapp, 23 April 1969).

<u>Species</u>	<u>Todd's Remarks</u>
Numenius tahitiensis	Noted on Necker and Frigate Shoals; nesting on latter islands.
Sterna fuscata	Colony noted on Frigate Shoals, nesting; young seen; estimated at 8,000-10,000 (September 5, 1918)
Anous minutus	About 500 seen nesting on Frigate Shoals.

Notes on Wildlife of Laysan made in May 1924 by G.P.Wilder and communicated by him to the Bureau of Biological Survey in a letter dated May 12, 1924. (Extracted from cards by R.B.Clapp, 23 April 1969.).

<u>Species</u>	<u>Wilder's Remarks</u>
Diomedea immutabilis	Present in great numbers.
Fregata minor	Numerous on Laysan Island.
Phaethon rubricauda	Very scarce on Laysan Island.
Anas laysanensis	Saw only 2 birds on Laysan Island.
Gygis alba	Very scarce on Laysan Island.
Rabbits	(May 2) No rabbits noted on Laysan; 3 seen on Southeast Island and 2 were shot.

Extract from Reno's Report on Rabbit Killing in 1923 (part of remarks are on a card that is missing.-RBC)

ever began to appear. When we left May 14 no rabbits had been seen for the past 8 days. The rabbits found on SE Island were thought to have been taken there by Japanese fishermen. Approximately 150 found here. Poison and guns were used here.



UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE
WASHINGTON, D.C. 20240

June 20, 1968

Memorandum

To: Regional Directors and Refuge Managers

From: Chief, Division of Wildlife Refuges

Subject: Distribution of record card file

In the early years of refuge operations, before 1943, a card record for each refuge was maintained on birds and mammals taken from narrative reports, review of literature, and correspondence. This file also contains a record of early fish stockings, predator removals, planting of herbaceous materials and their costs, and related subjects.

It would be extremely difficult, if not impossible, to accumulate such substantiating records at the present time. Many contributors are no longer living. In some instances supporting details were never published in appropriate journals. Recently, requests have been received for such details when State publications were in preparation. Refuge managers should safeguard these records. They may wish to prepare an annotated sheet of rare species such as the Seney Refuge did on the fourth page of the bird list, adding name of observer and locality.

All cards on these various subjects for a refuge are being sent under separate cover to regional offices for delivery to the refuges.

R. J. Scott

The following materials ~~were~~^{data} are extracts of materials loaned by Eugene Kridler to Robert L. Pyle of the Honolulu Office. They include extracts from reports by George Willett ~~xxxx~~ on the Bureau of Biological Survey Expedition of 1911-1912 and from visits by Wilder in 1930 and from a report by William Todd made during a visit in 1918 to various of the Northwestern Hawaiian Islands. Much of this material Additional material including that from Munter's Reports and from others is already in the files of the Pacific Program and ~~I have not~~ extracted these materials. The original information was typed on three by five inch cards. From these I have extracted the observations by trip and by island on the accompanying sheets. The following page is a copy of a letter explaining the distribution of these files to the various refuges concerned. All material here extracted is from files of the U.S. Bureau of Sport Fisheries and Wildlife in Honolulu and appropriate acknowledgement, in particular to Eugene Kridler, should be made if these materials are used in any of the various island accounts.

R.B.Clapp -- 7 April 1969

Most of these materials (particularly the Willett and Todd reports) are apparently now either ~~are~~ unavailable.

This material has not been extracted

Date on Laysan Wildlife made December 15, 1936 by W.F. Coultas and communicated by him in a letter dated June 4, 1937. (Extracted from cards by R.B.Clapp, 23 April 1969)

<u>Species</u>	<u>Coultas's Remarks</u>
<i>Oceanodroma tristrami</i>	(Referred to by Coultas as Mother Carpp's Chicken --RBC) Apparently not many on Laysan Island, only one pulled from burrow, although many burrows were opened.
<i>Diomedea nigripes</i>	Many thousands located mostly along sandy beaches at Eastern, Northern and Southern ends of Laysan. 6 specimens and 5 eggs saved.
<i>Diomedea immutabilis</i>	Many thousands scattered discriminately and in colonies all over interior of island. Just beginning to nest. 6 specimens and 5 eggs taken.
<i>Sula sula</i>	Approximately 12 seen flying on Laysan Island, a pair nesting in ironwood trees at north end of island.
<i>Sula dactylatra</i>	Species had just finished nesting on Laysan Island. 4 specimens taken. About 100 on the island and mostly found on south end.
<i>Fregata minor</i>	Was just completing nesting season. Possibly 150 birds seen on Laysan at time of our visit. 1 specimen taken.
<i>Anas laysanensis</i>	11 birds seen on south end of the lake. Ran easily into the grass, do not think these were all the birds. 2 specimens taken.
<i>Arenaria interpres</i>	From 3000-5000 seen about the edge of the lake on Laysan Island. About 100 seen dead, possibly an epidemic.
<i>Numenius tahitiensis</i>	About 20 seen about Laysan Island. Very shy. 1 specimen taken.
<i>Heteroscelus incanum</i>	Possibly a hundred scattered individuals seen about Laysan Island.
<i>Anous stolidus</i>	3-4 seen flying at south end of Laysan Island.
<i>Anous minutus</i>	About 40 have been seen around the various ironwood trees. Eggs observed.
<i>Gygis alba</i>	4-5 seen around the buildings.
<i>Telespiza cantans</i>	Found everywhere on Laysan Island. 1000 would be a conservative estimate of the population here. Often seen eating eggs of albatross. 6 taken.

data not
letter

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R.B.Clapp -- 7 April 1969

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Roger This has been typed and put in serial file under F&W

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Necker Island. (Extracted from cards by R.B. Clapp, 23 April 1969).

Species	Willet's Remarks
1 Dimmedea nigripes 3.	A few were found nesting.
2 Diomedea immutabilis 4.	Estimated 400 prs. on Necker Island.
3 Puffinus pacificus 12.	Were plentiful in ocean in vicinity of Necker and Bird Islands, March 19, 20, and 21.
4 Sula leucogaster 23.	2 noted on Necker Is. March 19
5 Sula dactylatra 21.	Nesting in small numbers noted on Necker Is., Mar. 19, eggs and young seen.
6 Fregata minor 25.	Substantial nesting (colony or colonies) found on Necker.
7 Phaethon rubricauda 19.	Rather rare on Necker Is.
8 Arenaria interpres 64.	Was only wader seen on Necker Is., where 1-2 seen.
9 Pluvialis dominica 50	Plentiful on all islands visited except Necker Is.
10 Anous stolidus 93	Round nesting in moderate numbers on Lisianski and less plentifully on Necker.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Nihoa Island. (Extracted from cards by R.B. Clapp, 23 April 1969)

Species	Willet's Remarks
1 Diomedea nigripes 3	A few were found nesting on Bird Island
2 Puffinus pacificus 12	Were plentiful in ocean in vicinity of Necker and Bird Islands, March 19, 20, and 21.
4 Sula leucogaster 23	A few birds noted on Bird Island, Dec. 17.
3 Sula dactylatra 21	common bird off Bird Is., Dec. 17.
6 Phaethon lepturus 20	One or two noted near Bird Is., December 17. Those seen on Bird Is. probably stragglers from larger islands.
5 Phaeton rubricauda 19	Fairly common around Bird Is. in December.
7 Pluvialis dominica 50	Plentiful.
9 Anous stolidus 93	Several seen off Bird Is., Dec. 17

Willet's Observations on Necker p.2

<u>Species</u>	<u>Willet's Remarks</u>
11 Sterna fuscata 91.	Thousands nesting on Necker Is. Most of eggs were advanced in incubation and a number of downy young seen.
14 Anous minutus 94	Noted on all islands visited except French Frigate Shoals
6 Gygis alba 95	Were found nesting on Necker Is., March 19, no young were seen; thousands seen on Necker and Bird Islands.
10 Sterna lunata 90	were nesting on Necker Island on steep hillsides. No young noted up to time we left islands. ((Check this back against other islands and add for each where not included--Laysan and Lisianski))
12 Procelsterna saxatilis 92	Were very plentiful on Necker Island where they were so tame they fluttered around our heads. One egg noted on this date ((March 19))

Willet's Observations on Nihoa p.2

<u>Species</u>	<u>Willet's Remarks</u>
10 Anous minutus 94	Noted on all islands visited except French Frigate Shoals
11 Gygis alba 95	thousands seen on Necker and Bird Islands
8 Procelsterna cerulea 92	very plentiful on Bird Island.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Date pertaining to French Frigate Shoals. (Extracted from cards by R.B.Clapp, 23 April 1969).

<u>Species</u>	<u>Willet's Remarks</u>
1. <i>Pterodroma hypoleuca</i>	Estimated 1000 prs. on Frigate Shoals.
3. <i>Diomedea nigripes</i>	About 200 pairs were nesting on French Frigate Shoals.
4. <i>Diomedea immutabilis</i>	Estimated 200 pairs on French Frigate Shoals.
6. <i>Puffinus pacificus</i>	Only ones seen during winter were a nearly grown young on French Frigate Shoals, Dec. 19 . . .
8. <i>Sula dactylatra</i>	About 40 pairs nesting on Frigate Shoals, Dec. 19.
17. <i>Phaethon rubricauda</i>	Fairly common around Bird Island in December, also around Frigate Shoals.
21. <i>Arenaria interpres</i>	Common on all islands made of sand (in reference to all islands visited-RBC).
23. <i>Pluvialis dominica</i>	Plentiful on all islands visited except Necker Island. (Bird, Frigate Shoals, Lisianski, Pearl and Hermes visited)
24. <i>Numenius tahitiensis</i>	Several seen on Frigate Shoals, Dec. 19.
25. <i>Crocethia alba</i>	3 seen on Frigate Shoals, Dec. 19.
26. <i>Anous stolidus</i>	200 prs. nesting on Frigate Shoal, Dec. 19, and newly hatched young seen.
44. <i>Anous minutus</i>	Noted on all islands visited except French Frigate Shoals.
72. <i>Procelsterna cerulea</i>	Were fairly common on French Frigate Shoals.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1911-1912. Data pertaining to Laysan Island (Extracted from cards by R.B.Clapp, 7 April 1969)

<u>Species</u>	<u>Willet's Remarks</u>
Hemidactylus garnotii	Observed on Laysan Island; occasional. (This observation is of particularly significance since it is the only other record of this lizard's occurrence on Laysan besides the one published as a result of the Albatross visit in 1902.- RBC)
Monacus schauinslandi	An adult taken on Laysan Island
Ablepharus boutonii	Observed on Laysan Island, abundant
7. Pterodroma hypoleuca 3	Was most abundant bird on the reservation during our stay. Estimated 50,000 prs. on Laysan Island. On Dec. 22 when we arrived on Laysan, the birds were courting and preparing to nest. Nesting began in January, with the first egg noted Jan. 9. A very considerable mortality noted, hundreds smothered to death in burrows from drifting sand. Not seriously affected by losses as numbers are so considerable.
16. Oceanodroma tristrami 6	Estimated there were about 10,000 pairs nesting on Laysan Island on arrival Dec. 22, 1912. The birds on Laysan nest low and the water would often rise and drown the birds in the burrows, so the percentage of young raised raised to maturity must be quite small. Est. that about 20% of the birds succeeded in raising young this spring (1913). The eggs are laid in late December and early January; if the first is lost another egg is deposited. Measurement of 6 breeding males and 6 breeding females given in report.
3. Diomedea nigripes 1	The nest by actual count on Laysan Is. were 7722, or a total of over 15,000 birds. Count was made in Feb. when all eggs were laid. This species begins nesting by Dec. 15 and all eggs are laid by Jan. 15. Incubation period found to be 31 days. This species has a very low death rate, and does not reneest if the first is unsuccessful. First young were noted Jan. 21 and soon became plentiful.
4. Diomedea immutabilis 2	. . . actually counted 12,231 prs. Laysan Is. (Dill had reported 180,000 on Laysan Is., and there was nothing to indicate that that the birds had been disturbed since his visit in 1911). Mortality is rather high and est. that 50% are lost. of 12,321 nests found on Laysan, 9201 were occupied and 3126 were deserted. First young noted Jan. 22. This species does not reneest if first nesting is unsuccessful.
12. Puffinus pacificus 4	Only (bird seen during winter) was a dying bird on Dec. 24. Began appearing March 10 when 3 were seen on Laysan. (Context of remarks on other islands suggests that none were found breeding on Laysan).
14. Puffinus nativitatus 5	First seen on Laysan Is., Feb. 13, when 2 were seen by Bailey; had become abundant by March 11, when they were seen all over the Island. At this time they were courting and nest building.

Species	Willet's Remarks
22. Sula sula 9	Not very common on Laysan during winter; becoming more plentiful in spring. On March 11, about 50 prs. notes nest building building in vicinity of Frigate birds altho latter persecuted them.
23. Sula leucogaster 10	One noted on Laysan, Jan. 21.
21. Sula dactylatra 2	A few prs. beginning to nest on Laysan Is. Dec. 22. (Dill reported about 65 birds May 1911) There are about 100 prs. here at time of this visit. Most of nests contained two eggs.
25. Fregata magnificens 11	Found common, but mostly immatures on arrival in Laysan Island, Dec. 22. Adults began arriving after first of the year and were still arriving March 11. Est. 3000 birds on area March 11, 1913 (Dill reported 12,500 present here May 1911) Were nest building by middle of January and first eggs were found Feb. 4.
19. Phaethon rubricauda 7	2 nearly grown young seen on Laysan latter part of December and a few downy young seen in January together with a few eggs. A few pairs winter on Laysan and by March 15 were becoming rather plentiful.
31. Anas platyrhynchos 12	A pair seen on Laysan from Dec. 22 to February 9 frequenting fresh water pond.
37. Anas acuta 14	Flock of 15 seen Dec. 24 when flushed from vicinity of fresh water pond on Laysan Is. Small flocks seen several times during first part of January after which they disappeared.
32. Anas laysanensis 13	7 individuals found on Laysan Is. composed of 3 pairs and an odd male. Were very tame, have no enemies of the island. Had not started to nest at time of our visit, Dec.22-Mar. 11.
29. Spatula clypeata 15	Flock of 6 birds seen on Laysan Island, January 30 and again on Feb. 11.
41. (Bufflehead) 16	An adult female taken by member of party,
42. Porzanula palmeri 17	Very plentiful over Laysan Is. Noted stealing petrel and tern eggs. One seen swimming across across a pond, a distance of about 15 feet. Not nesting when we left March 11.
64. Arenaria interpres 22	Very abundant on Laysan Island. Noted in thousands on Laysan.
49. Squatarola squatarola 18	2 seen on Laysan Is. , Dec. 27 and one was secured; single birds noted several times during the remainder of our stay.
50. Pluvialis dominica 19	Plentiful
35. Numenius tahitiensis 20	Abundant on Laysan Island.
7. Erolia alpina 25	Only one seen, an adult female which was taken on Laysan Island.

Species	Willet's Remarks
90. <i>Crocethia alba</i> 24	Occasionally seen on Laysan Island during winter and spring.
98. <i>Phalaropus fulicarius</i> 26	First noted this date (1-6-13) on Laysan Island. Frequently noted in flocks of plover and turnstone until middle of February. A specimen was secured.
84. <i>Larus glaucescens</i> 27	Immature in gray plumage taken by Bailey on Laysan Island (1-25-13)
86. <i>Larus philadelphia</i> 28	Immature female taken by Bailey on Laysan (12-27-12)
63. <i>Heteroscelus incanum</i> 21	Very common around lagoon and on the beaches during our stay on Laysan Island.
93. <i>Anous stolidus</i> 31	Laysan had about same number nesting there (200 prs.) and by January 1 young birds were fairly plentiful. Many young were flying and fishing for themselves by first of March on Laysan.
71. <i>Sterna fuscata</i> 30	Occasionally seen during January and February on Laysan Is. Numbers increased rapidly after middle of February and became abundant by Mar. 11, but had not begun to nest.
94. <i>Anous minutus</i> / <i>hemionotos</i> 32	Most plentiful on Laysan where there were 1500-2000 nesting pairs. Many nests contained eggs Dec. 24. Young first noted Jan. 17. About half of first nesting unsuccessful, due to eggs rolling out of nests or trampling of young birds. Were renesting Feb. 20, when nest rebuilding noted and by Mar 1, eggs were plentiful again.
85. <i>Gygis alba</i> 33	2-3 pairs noted on Laysan on our arrival in December, increased gradually and by March 1 about 40 pairs present. First egg noted December 29 and by Jan. 4 an egg had hatched; this young bird xx was flying with old birds March 10.
90. <i>Sterna lunata</i> 27	Occasionally seen on Laysan during winter. Became plentiful after February 1 and by early March were nesting abundantly. First eggs noted Feb. 25 24.
107. <i>Telespiza cantains</i> 36	Abundant on Laysan Island. Food buds and seeds, mainly mainly from the vine <u>Tribulus cistoides</u> . Prone to eat eggs of absent owners.
105. <i>Acrocephalus familiaris</i> 34	Least plentiful of kan land birds on Laysan, but seem to be holding their own, and in no present danger of extermination. Estimated there are now at least 600 on island.
106. <i>Himatione fraithii</i> 35	Common on Laysan where there appears to be no danger of extinction. Not nesting during our stay.

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Laysan Island (Extracted from cards by R.B.Clapp, 9 April 1962).

<u>Species</u>	<u>Todd's Observations</u>
Monacus schauinislantii	Large seal, estimated to weigh 600-700 lbs. found dead on beach at Laysan 8 Septebmer 1918.
Chelonia mydas	Were in a bundance along the beach on Laysan Island. Many caught by crew weighing 20-300 pounds (Entry is listed under Loggerhead Turtle but almost certainly pertains to the Green Sea Turtle - RBC)
7. Pterodroma hypoleuca (3)	Next to most common species on Laysan Island and estimate of 250,000 considered conservative.
3. Diomedea nigripes (1)	None seen on trip to Laysan Island
4. Diomedea immutabilis (2)	Noticeable scarcity of this species on Laysan. usually seen in threes, 2 adult and an apparently young bird. No nests or very young seen.
12. Puffinus pacificus (4)	Marked increase noted over numbers observed in 1911 by the expedition.
14. Puffinus nativitatus (5)	Noted continusally, no count attempted.
22. Sula sula (8)	Not more than a dozen seen on Laysan
23. Sula leucogaster (9)	(Evidently not mentioned by Todd-RBC)
21. Sula dactylatra (7)	4-5 seen near lagoon on Laysan, no nests nor young seen.
25. Fregata minor (10)	Estimated about 16,000 on Laysan including the young; nests located around the lagoon, placed on high bushes.
19. Phaethon rubricauda (6)	Very few noted on Laysan.
32. Anas laysanensis (11)	Quite numerous on Laysan; one flock of 20 seen; also groups of from 2-6 seen.
47. Porzanula palmeri (12)	Often seen on Laysan Island. No estimate of figures attempted.
64. Arenaria interpres (16)	Seen in large flocks on Laysan Island.
50. Pluvialis dominica (13)	(Evidently not mentioned in Todd Report - RBC)
55. Numenius tahitiensis (14)	Were in numbers on all parts of Laysan, estimated at least 1,000 present.
63. Heteroscelus incanum (15)	One seen on Laysan Island.
73. Anous stolidus (19)	(Evidently not mentioned in Todd Report - RBC)
91. Sterna fuscata (18)	Most common species on Laysan; nests distributed generally over the island. Estimated 500,000

Species	Todd's Observations
94. Anous minutus + <i>feministus</i> ⁽²⁰⁾	Found only in lowlands near lagoon; no nests nor young found; estimated population at 2000
95. Gygis alba alba ⁽²¹⁾	Pair seen flying about beach at Laysan, 3 more xxxxxxx seen later on island.
90. Sterna lunata ⁽¹⁹⁾	Not observed on trip to Laysan.
Telespiza cantains ⁽²²⁾ <i>end</i>	Seen in large numbers on Laysan Island.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Lisianski Island. (Extracted from cards by R.B. Clapp, 9 April 1969)

<u>Species</u>	<u>Willet's Observations</u>
Monacus schauinslandii	2 seen on Lisianski Island.
1. Pterodroma hypoleuca (3)	Estimated 20,000 prs. on Lisianski Is.
3. Diomedea nigripes (1)	Estimated 300 prs. nesting on Lisianski
4. Diomedea immutabilis (2)	Estimated 100 pairs on Lisianski
12. Puffinus pacificus (4)	(Not seen on Lisianski during winter - no comment made as to their presence in March- RBC)
14. Puffinus nativitatus (5)	1 pair was seen on Lisianski, March 12
22. Sula sula (8)	30 pairs noted nesting on Lisianski Is., in company with Frigate birds. Some on nests contained fresh eggs.
23. Sula leucogaster (9)	About 12 birds seen on Lisianski Is., March 12.
21. Sula dactylatra (7)	Rather common on Lisianski Is., March 12.
25. Fregata minor (10)	Substantial nesting colony (or colonies?) found on Lisianski
19. Phaethon rubricauda (6)	(Presence not noted in card extracts of Willet's notes-RBC)
47. Porxanula palmeri (11)	We liberated 40 on Lisianski Island, under favorable conditions.
64. Arenaria interpres (15)	"Common on all islands made of sand" (but Lisianski not specifically mentioned - RBC)
50. Pluvialis dominica (12)	Plentiful
55. Numenius tahitiensis (13)	Common
70. Crocethia alba (16)	Fairly common on Lisianski March 12.
Anous stolidus (14)	(Not mentioned in card extracts of Willet's Report with regard to Lisianski - RBC)
63. Heteroscelus incanum (14)	(Not mentioned in card extracts of Willet's Report with regard to Lisianski - RBC)
93. Anous stolidus (19)	Found nesting in moderate numbers on Lisianski
91. Sterna fuscata (18)	Were plentiful on Lisianski Island, March 12.
94. Anous minutus, tenuirostris (20)	Noted on all islands visited except French Frigate Shoals
95. Gygis alba (21)	(Not mentioned as occurring on Lisianski on cards - RBC)
90. Sterna lunata (17)	Nesting in considerable numbers on Lisianski Is., March 12.

Extracts from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913. Data pertaining to Pearl and Hermes (Extracted from cards by R.B.Clapp, 23 April 1969)

Species	Willet's Remarks
7. <i>Pterodroma hypoleuca</i> 3	(estimated) 1500 prs. on Pearl and Hermes Reef.
3. <i>Diomedeanigripes</i> 1	About . . . 300 prs. on Pearl and Hermes Reef.
4. <i>Diomedea immutabilis</i> 2	(estimated) 300 prs. on Pearl and Hermes Reef.
23. <i>Sula leucogaster</i> 5	One seen on Pearl and Hermes.
24. <i>Sula dactylatra</i> 4	About 50 prs nesting on Pearl and Hermes Reef; most of nests here contained eggs, but 2-3 had recently hatched young.
25. <i>Fregata minor</i> 4	. . . a small colony seen on Pearl and Hermes Reef.
64. <i>Arenaria interpres</i> 9	Common on all islands made of sand.
50. <i>Pluvialis dominica</i> 7	Plentiful
55. <i>Numenius tahitiensis</i> 8	several seen on Pearl and Hermes Reef.
91. <i>Sterna fuscata</i> 10	1 noted on Pearl and Hermes Reef March 15
93. <i>Anous stolidus</i> 11	Found nesting in moderate numbers on Lisianski and less plentifully on Necker and Pearl and Hermes Reef.
94. <i>Anous minutus</i> + <i>Tenuirostris</i> 12	Notes on all islands visited except French Frigate Shoals.

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Kure Atoll (Extracted ~~by R.B.Clapp~~ from cards by R.B.Clapp, 23 April 1969)

<u>Species</u>	<u>Todd's Remarks</u>
1. Pterodroma hypoleuca	Noted on Kure or Ocean Island. (Sept. 15, 1918)
3. Diomedea nigripes	Noted on Kure or Ocean Island.
4. Diomedea immutabilis	Note (sic) on Ocean or Kure Island
95. Gygis alba	Noted on Kure or Ocean Island.

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Nihoa Island (Extracted from cards by R.B.Clapp, 23 April 1969).

<u>Species</u>	<u>Todd's Remarks</u>
3. Diomedea nigripes	Noted on Bird Island (Sept. 2, 1918)
4. Diomedea immutabilis	A few seen on Bird Island.
12. Puffinus pacificus	Noted on Bird Island
Gygis alba	
91. Sterna fuscata	Noted on Bird Island

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Data pertaining to Necker Island (Extracted from cards by R.B.Clapp, 23 April 1969).

<u>Species</u>	<u>Todd's Remarks</u>
22. Sula sula	Noted on Necker Island (Sept. 3, 1918)
95. Gygis alba	Noted on Necker Island
19. Phaethon rubricauda	Noted on Necker Island
90. Sterna lunata	Noted on Necker Island
55. Numenius tahitiensis	Noted on Necker and Frigate Shoals; nesting on latter island.
91. Sterna fuscata	Noted on Necker Island

Extracts from William Todd's Report of a visit to the Northwestern Hawaiian Islands in September 1918. Date pertaining to French Frigate Shoals. (Extracted from cards by R.B.Clapp, 23 April 1969).

<u>Species</u>	<u>Todd's Remarks</u>
56. <i>Numenius tahitiensis</i> 1	Noted on Necker and Frigate Shoals; nesting on latter islands.
91. <i>Sterna fuscata</i> ✓	Colony noted on Frigate Shoals, nesting; young seen; estimated at 8,000-10,000 (September 5, 1918)
94. <i>Anous minutus</i> + <i>hemirostris</i>	About 500 seen nesting on Frigate Shoals.

Notes on Wildlife of Laysan made in May 1924 by G.P.Wilder and communicated by him to the Bureau of Biological Survey in a letter dated May 12, 1924. (Extracted from cards by R.B.Clapp, 23 April 1969.).

<u>Species</u>	<u>Wilder's Remarks</u>
4. <i>Diomedea immutabilis</i> ①	Present in great numbers.
25. <i>Fregata minor</i> ③	Numerous on Laysan Island.
19. <i>Phaethon rubricauda</i> ②	Very scarce on Laysan Island.
32. <i>Anas laydanensis</i> ④	Saw only 2 birds on Laysan Island.
95. <i>Gygis alba</i> ⑤	Very scarce on Laysan Island.
Rabbits	(May 2) No rabbits noted on Laysan; 3 seen on Southeast Island and 2 were shot.

Extract from Reno's Report on Rabbit Killing in 1923 (part of remarks are on a card that is missing.-RBC)

ever began to appear. When we left May 14 no rabbits had been seen for the past 8 days. The rabbits found on SE Island were thought to have been taken there by Japanese fishermen. Approximately 150 found here. Poison and guns were used here.

Data on Laysan Wildlife made December 15, 1936 by W.F. Coultas and communicated by him in a letter dated June 4, 1937. (Extracted from cards by R.B. Clapp, 23 April 1969).

<u>Species</u>	<u>Coultas's Remarks</u>
<i>Diomedea nigripes</i>	Many thousands located mostly along sandy beaches at Eastern, Northern and Southern ends of Laysan. 6 specimens and 5 eggs saved.
<i>Diomedea immutabilis</i>	Many thousands scattered discriminately and in colonies all over interior of island. Just beginning to nest. 6 specimens and 5 eggs taken.
<i>Oceanodroma tristrami</i>	(Referred to by Coultas as Mother Carey's Chicken - RBC). Apparently not many on Laysan Island, only one pulled from burrow, although many burrows were opened.
<i>Sula dactylatra</i>	Species had just finished nesting on Laysan Island. 4 specimens taken. About 100 on the island and mostly found on south end.
<i>Sula sula</i>	Approximately 12 seen flying on Laysan Island, a pair nesting in Ironwood trees at north end of island.
<i>Fregata minor</i>	Was just completing nesting season. Possibly 150 birds seen on Laysan at time of our visit. 1 specimen taken.
<i>Anas laysanensis</i>	11 birds seen on south end of the lake. Ran easily into the grass, do not think these were all the birds. 2 specimens taken.
<i>Numenius tahitiensis</i>	About 20 seen about Laysan Island. Very shy. 1 specimen taken.
<i>Heteroscelus incanum</i>	Possibly a hundred scattered individuals seen about Laysan Island.
<i>Arenaria interpres</i>	From 3000-5000 seen about the edge of the lake on Laysan Island. About 100 seen dead, possibly an epidemic.
<i>Anous stolidus</i>	3-4 seen flying at south end of Laysan Island.
<i>Anous minutus/tenuirostris</i>	About 40 have been seen around the various Ironwood trees. Eggs observed.
<i>Gygis alba</i>	4-5 seen around the buildings.
<i>Telespiza cantans</i>	Found everywhere on Laysan Island. 1000 would be a conservative estimate of the population here. Often seen eating eggs of albatross. 6 taken.