

Enderbury

Mammals

- November 16-20, 1963 (Sibley) Summary: "Cats only - one per night - jumpy."  
Nov. 16, 1963 (Bratley) Saw four cats which were very scared.
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- July 11-16, 1963 (Sibley) Summary: Cats not seen for first two nights and then 2-3 seen each night thereafter.
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- February 29, 1964 (Huber): "...and chased one cat down."
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- March 2, 1964 (Sibley) Summary: "One cat run to death."
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- July 14, 1964 (Sibley) "Huber shot one of two cats seen. A third cat seen during day in Red-footed Booby Colony."  
July 15, 1964 (Sibley): "Huber killed one yellow female in buildings near lighthouse by digging it out. I killed one gray female (6 developing fetuses) near the tern colony. It ran only a short way before giving up."  
July 16, 1964 (Sibley) Pers. com. - no cats seen.
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- October, 1964 (Sibley) No cats seen.
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- Feb. 12-17, 1965 (Hackman) "During the first portion of the island survey two dead birds were found on which the breasts had been eaten off. No other parts of these two birds had been eaten off. This looks suspiciously like the work of a cat."
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- May 30-June, 1965 (Fleet) Spam Island - collected 8 rats Rattus exulans
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- Oct. 1-3, 1965 No mammal report at all
- 
- April 1966 Reports that previous SIC trips have exterminated all mammals from island.

ENDERBURY

Birds-annotated list

WEDGE TAILED SHEARWATER

5 July 16, 1964 : Sibley -- "Saw a pair of Wedge-tailed Shearwater on guano mound  
one light and one dark. Start of a burrow. "

July 14-17, 1964 ----- Sibley summary : " A light and a dark phase bird were seen  
excavating a burrow in the guano heap on the 16th and the dark  
phase bird was banded the next night. "

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7 HA- February 12-16, 1965: Hackman - summary; 1 seen offshore at dusk on February 16

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none seen on any other trip through SIC # 8 9/11

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ENDERBURY

birds ----- annotated list

SANDERLING

3 Nov. 16-20, 1963 ----- Sibley: "1 seen several times. "

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6 Nov. 11, 1964 -----Sibley: "2 seen"

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7 Feb. 12-16, 1965 -- Hackman, summary: 6 counted on an island circuit.

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none seen on 2, 4, 5, 8, 9, 11

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ENDERBURY

Birds-annotated list

✓ CRESTED TERN

5 July 14-17, 1964 ----- Sibley summary : " 2 seen on 3 occasions. "

✓ none see 2, 3, 4, 6, 7, 8, 9, 11

ENDERBURY

birds ---- annotated list

SHARP\*TAILED SANDPIPER

23 Nov. 16-20, 1963 ----- Sibley: " 6 seen, 1 collected."

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4 Feb. 27--Mar. 2, 1964 -- " 1 collected. "

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none see on Trip 2, 5, 6, 7, 8, 11

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Sic 9 Oct 1-3, 1965 (Fleet) counted 4 birds  
Woodward shot 2

ENDERBURY

birds ----- annotated list

COMMON NODDY TERN

- 2 July 11-16, 1963 ----- Sibley: " 150-200 birds on islands in lagoon. 12-15 nests half with eggs, half with young. Islands up to an acre in size provide large areas of suitable habitat for tern nesting. "

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- 3 Nov. 16-20, 1963 ----- Sibley: " Estimated 300 adults -- all in central lagoon area. 7 nests with eggs, and 17 young.
- Nov. 19, 1963 ----- Sibley: "Common noddies on 6 islands and 3 islets."

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- 4 Feb. 27- Mar. 2, 1964- Sibley: "Estimated 200 - 9 nests with eggs on small islands in lagoon."

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- 5 July 14-17, 1964 ----- Sibley summary : " 100-200<sup>adults</sup> nest~~s~~<sup>50 nests FCS</sup> on islands in lagoon. No nests on main island. " ~~Got 300-500 ad. FCS~~ # ?

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- 6 November 9-12 1964 ---Sibley summary: "4 nestlings banded. Estimated 150 birds. Estimated 15 nests with eggs, 8 nestlings."

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- 7 February 12-16, 1965 -- Hackman, Summary: 200 birds roosting and nesting on islets in the lagoon. 26 nests with eggs, 11 with small chicks, 7 with large nestlings.

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- 8 May 30-June 1, 1965 - Sibley , summary: Estimated 500 adults. 1 collected. Eggs and young present. } ~~Total of 30 nests~~ FCS # ? all nests in lagoon on islands.

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- 9 Oct 1-3 (1965 - Fleet) none seen)

Sic 11.

Common Noddy

Enderbury Island

Feb 15, 1966 (Crossin) about 100 were observed on the island, mainly about the lagoon and on the south end. No nesting was in progress.

## FAIRY TERN

- 2 July 11-16, 1963 ----- Sibley: "2-6 seen every day."
- 
- 3 Nov. 16-20, 1963 ----- Sibley: " Estimate of 8-10 "
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- 4 Feb. 27-March 2 1964-- Sibley: " Maximum of 8 seen at one time near the guano heap."
- 
- 5 July 14-17, 1964 ----- Sibley summary : " Maximum count of 9. "
- 
- 6 November 9-12 1964 -- Sibley summary: "9 seen (<sup>3 with Ha. Noddies</sup> ~~around lagoon~~), 1 banded!"
- 

February 12-16, 1965: - Hackman, Summary: five seen at one time near Cordia

7 grove in the interior of the island.

Feb. 13, : one pair on island in grove of Messerschmidia in center of island.

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May 30-June 1, 1965: Sibley, summary: Count of 7. One nest with egg, one with nestling.

8 May 31 - Sibley , species account: One nestling and one egg found in the Cordia grove near the guano heap. 7 counted.

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9 Oct 1-3, 1965 (Fleet) total of 10 birds seen mostly in trees, although one pair was seen on rocks at southern end.

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" " " (BAH) no evidence of nesting.  
(saw 5 pair)



Sic 11

Fairy Tern

Enderbury Island

Feb-15, 1966 (Crossin) - 2 individuals noted.

ENDERBURY

birds ----- annotated list

SOOTY TERN

2 July 11-16, 1963 ----- Sibley: "Large flocks just starting to set down on the ground. On the 13th could find only a few to band. On the 15th the ground was covered with 100's of birds. <sup>Est. 2000 FCS</sup> One colony between lagoon and guano heap. Another on area of coral rubble at south end of island.

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3 Nov. 16-20, 1963 ----- Sibley: "Large flocks in evening over island (3000 \*) As many as 500 sitting on ground during the day but none at night.

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4 Feb. 27- March 2, 1964 - Sibley: " Up to 7000 to 10,000 birds over island. Several thousand sitting on ground for short periods."

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July 17, 1964 ----- Sibley : (At night) "Terns were all on eggs and sat very tightly. "

5 July 14-17, 1964 ----- Sibley summary : "40 blood samples, 4 collected. 2500 banded. 3 colonies totaling 50,000 at night, about ~~the~~ half that or less in the day. All three colonies on fresh eggs. A small group with 60 young about to fledge had nested in the lagoon area. "

*Estimated 15,000 eggs FCS*

6 November 10, 1964 ---Sibley: "One fresh (still wet) egg found in large group..."

November 11, 1964 ---Sibley: "Estimated over 3000 in 3 scattered groups. A few nestlings still left. A number of immatures # still left."

November 9-12 1964 ---Sibley summary: "2 collected, 51 banded, 20 blood samples. Estimated 10,000. About 3,000 on ground. 1 fresh egg. Numerous immatures and a few nestlings."   
 (10± FCS)

February 12-16, 1965 -- ~~Sibley~~, Hackman, summary: estimated 85,000 plus in 5 colonies all with freshly hatched chicks and eggs. 2 collected. 4351 banded, 10 returns.

February 12, 1965 - Hackman, species account: 50 blood samples from a small colony on the south end of the island. This colony, about 1,000 birds, had young just emerging from eggs late in the afternoon. Birds were captured with nets from the fringe of the colony. Hermit crabs were observed attacking several chicks before they had completely emerged from their eggs.

7 Feb. 12-16: Total population 85,000 plus in 5 distinct colonies: 1 on south end of island, 3 along west shore on north end of island. 4 groups with eggs and freshly hatched chicks, 1 group with  $\frac{1}{2}$ - $\frac{3}{4}$  grown nestlings. 4351 banded, 10 returns. Almost all adults banded were captured with hand nets. After the initial time the colonies were not entered because of an extremely high mortality rate among freshly hatched chicks due to large numbers of hermit crabs.

Feb. 12 - sampled 100 birds for 50 samples - south end of island.

40,000 nests  
estimated FCS

Feb. 13 " At 5 PM we packed up some gear and headed toward the Sooty Tern colonies on the north end of the island. By using nets we were able to band 600 adults before dark. After dark we tried picking birds up off of their nests but the moon was far too bright so we returned to our nets and did an additional 300 birds. It wasn't long before we realized that only one small part of the colony near the guano yeap was actually on eggs. Most of the birds were on freshly hatched chicks, which rapidly fell prey to the very abundant Hermit Crabs. Once this was discovered we quickly finished up the loose bands and moved out of the colony completely.

8 May 30-June 1, 1965 -- Sibley, summary: Estimated 40,000 only a few on the ground. 900 banded with 19 returns. 40 blood samples, 6 collected.

May 31, - Sibley, species account: One large group (5,000) on ground. Several

8 other groups circling various areas of the island. Several immatures still present around the guano heap. 900 banded, 19 returns. Estimated 30-40,000 in various flocks.

9. ✓ Oct 1-3, 1965 (Fleet) - colony - almost all were flying immatures (about 4000) saw 20± flying over.

" " " (BAH) at end of breeding cycle, all nestlings appear able to fly. 3000-4000 locals present. Many adults at night. Colony mostly in Sida.

1964 June 15 - eggs laid [earliest]

↓ longest possible  
Aug. 15 July 15 - hatched

Sept. 15 - fledged

↓  
Nov. 15 - last

1965 { Jan. 10 - first laying  
less than 1 month of laying  
Feb. 10 - first chick

April 10 - fledged

May 10 - none

June 15 - new nesting started??

370  
370  
-40

mmmm breed population CBT

1963 440

1964 740

1965 500

SIC 11

SOOTY TERN

Enderbury Island

Feb 15, 1966 (Crossin) - Swarms of up to 5,000 were noted just behind the light house on evenings of 14 & 15 Feb. About 200 more noted sitting on the west shore of the lagoon. Not yet with eggs.

ENDERBURY

birds ----- annotated list

BLUE GRAY NODDY

2

July 11-16, 1963 ----- Sibley:~ "2 seen on the 13th. 2 seen and one collected on the 16th.

3

Nov. 16-20, 1963 ----- Sibley:" " 1 seen at lagoon. "

4

Feb. 27-Mar.2, 1963 -- Sibley: " count of 10 around central lagoon. "

5

July 14-17, 1964 ----- Sibley summary : " Maximum count of 9. "

6

November 9-12 1964 --Sibley summary: "9 seen" (around lagoon)

7

Feb. 12-16, 1965 - Hackman, summary: a few seen roosting on Sesuvium.  
estimated 15-20.

February 14- Hackman, species account ÷ About 10 using the island at night.

May 30-June 1, 1965 - Sibley, summary: Maximum of three seen.

8

May 30: 1 seen

May 31: 3 seen

June 1: 2 seen

9 Oct 1-3, 1965 - (Fleet) total of 4 seen flying.  
" " " (BAH.) - saw 2 individuals - no evidence of nesting.

S/C 11

BLUE GRAY NODDY TERN

✓ Enderbury Island

Feb 15, 1966 (Crossin) - two birds noted on  
West side of the island.



SIC 11

PINTAIL Duck.

Enderbury Island

Feb 15, 1966 (Crossin) 3 seen in northern most pond in center of island, all appeared to be females.

## HAWAIIAN NODDY TERN

2 ✓ July 11-16, 1963 ----- Sibley: " Nesting and roosting in grove of trees around guano heap. 50 some nests, a few with chicks. 158 adults of 500 \* banded.   
 *Estimated 500 FCs*

3 ✓ Nov. 16-20, 1963 ----- Sibley: "Estimated 1000. All concentrated in trees near guano heap. 2 nests with eggs. "

4 ✓ Feb. 27- Mar.2, 1964 - Sibley: " Estimated 1500. 15 nests with 1 egg, 1 with small young. All located in Cordia grove near guano heap.

Feb. 28, 1964 ----- Clapp: " Northern black noddy colony(750-1000 birds) contained 15 nests with eggs. (apparently quite heavily incubated.) There was also a young bird near fledging. "

5 ✓ July 14-17, 1964 ----- Sibley summary : "600-1000. Spend all day at sea and then return in flocks of 100 or more just before dusk.   
 No nesting. "

6 ✓ November 9-12 1964 ---Sibley summary: "16 adults and 4 nestlings banded. Estimated 700 adults. 16 nests with 1 egg, 4 nestlings!"

7 ✓ February 12-16, 1965 - Hackman, summary: estimated 4,000 roosting in Cordia near guano heap. 15 nests with eggs. 1 small nestling and 14 adults banded.

February 13 - Hackman: At dusk tonight the Hawaiian Noddy Terns came in off of the ocean in large low-flying flocks numbering between 50 and 500 birds. Flocks were still coming in long after the last light of the sun had faded.

8 ✓ May 30-June 1, 1965 - Sibley: summary: Estimated 800-1000. 3 collected, 2 band returns. All roosting in Cordia grove. 2 nests with eggs. 4 other banded birds seen.

Sic 9-11

Hawaiian Noddy Tern

Enderbury Island

✓ Feb 15, 1966 (Crossin) about 500 were roosting in the Cordia grove on N.W. side of island. Old nests were present, but no current nesting was in progress.

Sic 9

✓ Oct 1-3 1965 (Fleet) 10 eggs - 8 nestlings seen. Many roosting birds present.

✓ On Oct 2 - saw a flock of about 2000 birds.

✓ " " " (BAH) less than 15 breeding in bushes near the guano pile.

ENDERBURY

birds ----- annotated list

GRAY BACKED TERN

2 ✓ July 11-16, 1963 ----- Sibley: "scattered nesting colony near Sooty colony at northern end. Several hundred nests. 5-10 chicks, rest of birds on eggs --"  
*Estimated 500 fcs*

3 ✓ Nov. 16-20, 1963 ----- Sibley: "Common in lagoon -- very few outside this area. 27 bandable young. found. No eggs. 26 nestlings banded. Estimated 3,000 birds roosting on islands and salt pan in lagoon."

Nov. 19, 1963 ----- Sibley: " Grey backs on 1 island and 1 islet. "

4 ✓ Feb. 27- Mar. 2, 1964 - Sibley: "Estimated 200 - 3 eggs on small islands. "

5 ✓ July 14-17, 1964 ----- Sibley summary : " 100-150 with eggs and 200 young about to fly. All these nests on the main island. A few others on lagoon islands. 1500 adults est. "

6 ✓ November 9-12 1964 ----Sibley summary: "5 adults and 1 nestling banded. Estimated 1,000. Less than 20 nests with eggs. Only the 1 nestling seen."

7 ✓ February 12-16, 1965: -- Hackman, Summary: 500 along east shore of lagoon, a few on eggs. *5? nests fcs*

February 15, 1965 : -- "we did not find any Gray-backed Tern nests on the islets in the lagoon.

8 ✓ May 30-June 1, 1965 - Sibley, Summary: Estimated 1,000. 80 adults and 20 nestlings banded. 3 collected. *100 nest w young fcs*  
*150 " w eggs*

May 31, Sibley- species account: Scattered colonies - all outside the lagoon islets. 80 adults and 20 nestlings banded. 3 collected, estimated 1,000.

9. ✓ Oct 1-3, 1965 - (Fleet) about 50 adults seen near RTTB houses. (BAH) — small group of 50 birds on flat area near W side of island.

SIC 11

GRAY BACKED TERN

Enderbury Island

Feb 15, 1966 (Crossin) - estimated 2,000 birds  
mainly confined to the lagoon shore  
area. Two nests with eggs were  
found on the 14 Feb.

## BRISTLE THIGHED CURLEW

- 2 ✓ July 11-16, 1963 ----- Sibley: " maximum of ten at one time. (total population 2 to 4 times as many. ) est 30
- 
- 3 ✓ Nov. 16-20, 1963 ----- Sibley: " flock of 10 -- estimate 30"
- 
- 4 ✓ Feb. 27- Mar. 2, 1964- Sibley: "count of 30."
- 
- 5 ✓ July 14-17, 1964 ----- Sibley summary : "Maximum of 10 at one time. 15-20 on island. "
- 
- 6 ✓ Nov. 9-12 1964 -----Sibley summary: "Estimated 40, 1 banded."
- 
- 7 ✓ February 12-16, 1965 -- Hackman, summary: 44 counted on an island circuit
- 
- 8 ✓ May 30-June 1, 1965 - Sibley, summary: present 20??  
no count made - flock of 16 seen.
- 
9. Oct 1-3, 1965 (Fleet) shoreline count showed 64.  
" " " (BAH) - "a good number present, but spread out."  
One bird caught that was extremely emaciated.

Sic 11

BRISTLE THIGHED CURLEW

Enderbury Island

Feb 15, 1966 (Crossin.) thinly distributed over  
entire island. (Count - 35)

## WANDERING TATTLER

- 2 July 11-16, 1963 ----- Sibley: "groups of 2 and 3 seen regularly. (total population 2 to 4 times as many.) *est - 10*
- 
- 3 Nov. 16-20, 1963 ----- Sibley: "estimated 30"
- 
- 4 Feb. 27-Mar. 2, 1964 - Sibley: "count of 7 "
- 
- 5 July 14-17, 1964 ----- Sibley summary : "15 plus or minus, maximum of 5 at one time. "
- 
- 6 November 9-12, 1964 ----Sibley# summary: "Estimated 40"
- 
- 7 February 12-16, 1965 - Hackman, summary: 61 counted on an island circuit.
- 
- 8 May 30-June 1, 1965 - Sibley, summary: present 16???
- no count made - present in small numbers
- 
- 9 Oct 1-3, 1965 (Fleet) count held in 2 sections showed 10
- " " " (BAH) - "saw less than 15 individuals"



SIC 11

Wandering Tattler

Enderbury Island

✓ Feb 15, 1966 (Crossin) - thinly distributed  
over entire island. (Count - 74)

Sic 11

Ruddy TURNSTONE

Enderbury Island

Feb 15, 1966 (Crossin) - "Found most commonly along the lagoon and shore lines, but small flocks and singles were noted over most of the island. (Count - 627)

ENDERBURY

birds ----- annotated list

RUDDY TURNSTONE

- 2 ✓ July 11-16, 1963 ----- Sibley: "maximum group of 12 seen. (total population probably 2 to 4 times as many. )" Est 36  
flock

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- 3 ✓ Nov. 15-20, 1963 ----- Sibley: \*~~count~~\* of 30 - estimate 60"

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- 4 ✓ Feb. 27- Mar. 2, 1964 - Sibley: "count of 201"

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- 5 ✓ July 14-17, 1964 ----- Sibley summary : " 200 plus or minus. One flock of over 100 birds on the reef. "

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- 5 ✓ July 15, 1964 ----- Hackman : " Shorebirds were abundant for some reason. Ruddy Turnstones were observed in flocks ranging in size from 8-100. "

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- 6 ✓ Nov. 9-12 1964 -----Sibley summary: " Estimated 350 - count 219 on shore

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- 7 ✓ February 12-16, 1965 - Hackman, summary: 553 counted on an island circuit.

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- 8 ✓ May 30-June 1, 1965 - Sibley, Summary: present 60??  
no count made - Present in moderate numbers. Flocks of 5-10 seen several times

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- 9 ✓ Oct 1-3, 1965 (Fleet) Shorebird count = 302 (in 2 sections)  
" " (BAH) - "not too common"

ENDERBURY

birds ----- annotated list

GOLDEN PLOVER

2 ✓ July 11-16, 1963 ----- Sibley: " groups of 8-10 seen regularly (Total population 2 to 4 times as many) " Est. 30

3 ✓ Nov. 16-20, 1963 ----- Sibley: " all shorebirds uncommon - Estimated 30. "

4 ✓ Feb. 27-March 2, 1964 - Sibley: " count of 109"

5 ✓ July 14-17, 1964 ----- Sibley summary : " 10 plus or minus. Maximum of three at one time. "

6 ✓ Nov. 11, 1964 -----Sibley: Count 122 - along shore only - very few in lagoon at this time but large numbers present inland."

November 9-12, 1964 ---Sibley summary: "Estimated 200"

February 12-16, 1965

Hackman- Summary: 78 counted on an island circuit.

7 ✓ February 13 - Hackman, species account: 78 counted

February 15 " " " a flock of 52 seen by Merrill.

8 ✓ May 30-June 1, 1965 Sibley, summary: present 30??

no count made - present in small numbers.

9 ✓ Oct 1-3, 1965 (Fleet) - shorebird count = 89 in 2 sections  
" " (BAH) absent around lagoon areas. The birds present were primarily in the Sesuvium flats.

Sic 11

GOLDEN PLOVER

Enderbury Island

Feb 15, 1966 (Crossin) distributed thinly over island, concentrations on east shore.  
(Count - 544)

LESSER FRIGATE

2

Estimated  
15,000

July 11-16, 1963 ----- Sibley : " Restricted to 4 or 5 more or less continuous groups between lagoon and house. As on Howland, colony packed in wing to wing with only a few sticks or grass for nests. Feet too small for 7B band. One nest in with Great Frigate colony --- about 2 ft. up in tree. Complete nest count taken: 3674 nests with eggs, 1256 nests with chicks. Total 4930.

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3

Estimated  
3000

Nov. 15-20, 1963 ----- Sibley : " Adults uncommon as for minor. Concentrated along SW corner of lagoon. Estimated 1300 large nestlings, 1 small nestling, no eggs. 1138 nestlings banded. No frigates were seen chasing any boobies although a few were seen feeding with Brown Boobies."

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4

100 Ad. FCS

Feb. 27- Mar. 2, 1964 --- Sibley: "Estimated 500 (mostly immatures) 4 nests with eggs on 28th, 4 more on the 1st. at the edge of the Great Frigate colony -- a stick nest instead of the usual bare ground laying. 387 bands recovered (95% accurate.)

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5

July 14-17, 1964 ----- Sibley : "Two large colonies. One near the Greater Frigate colony and the other behind the house. First had numerous young (4000 nests) second had mostly eggs (1000 nests) Estimated 15,000 adults. Nests in some cases identical to those of low nesting Greater Frigates. 10 blood sample."

July 15, 1964 ----- Hackman, : " There were considerably more Lesser Frigates with elevated nests on the edge of the Greater Frigate colony than were observed on the last trip. The nests, pedestal like in form, are all about 1 foot high. "

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## ENDERBURY

## LESSER FRIGATEBIRD (2)

6 November 11, 1964 ---Sibley: "500 nestlings banded in colony near Great Frigatebird colony on W side. Estimated 1,000 nestlings here. 800 in group near house. A few nests found in Messerschmidia trees."

Nov. 9-12 1964 ---Sibley summary: "89 adults, 1011 nestlings banded. Estimated 1800 nestlings, 20 nests with eggs. 6000 adults and immatures."

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7 Feb. 12-16 1965 Hackman, Summary: Not nesting at present. Estimated 500 adults and immatures using the island at present. 100 Ad FCS

February 13, Hackman species account: About 200 adults and immatures flying around island. No nesting activity observed.

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8 May 30-June 1, 1965 - Sibley, summary: 40 blood samples. Estimated 4000 nests, 50/50 eggs and young. estimated 10,000 ADULTS FCS

May 31 - Sibley, species account: Two jars of egg white collected. 1000 plus birds in colony just east of the Great Frigate colony. Eastern part on fresh eggs. Western part on ~~fresh-eggs~~ with chicks. Nests 4 plus feet apart. Estimated 4000 nests, half with nestlings. Numerous fresh eggs found.

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9 Oct 1-3, 1965 (Fleet) - nest count (493 nests)  
 " " BAH - count showed approx 500 nestlings.

SIC 11

Lesser Frigate

✓ Enderbury Island

Feb 15, 1966 - (Crossin) - 300 flying immatures present scattered about the west end of the Great Frigate colony. Roasted mainly on the ground or low vegetation. 3 adults seen on night of the 14<sup>th</sup>. One ♂ had an enlarged throat patch.



GREAT FRIGATEBIRD

2 ✓  
 Estimated 5000  
 11700 Frigate in clump

July 11-16, 1963 ----- Sibley: "large colony in open patch of trees. Scattered in individuals over rest of "green pasture" area. Small stick nests. 955 nestlings banded. Males with considerable white on chest. Feet often too small for 7B band. Complete nest count made -- 665 nests with eggs, 735 with chicks, 955 nestlings. Total 2355.

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3 ✓  
 Estimated 1000 FCS

Nov. 16-20, 1963 ----- Sibley: "Adults uncommon. About 1/4 enough (for number of) nests seen. Concentrated in large colony on West Side with a few scattered around the island. Nest survey -- 46 nests with eggs, none with small young, 387 large young, (63 of these still in white down). 2 immatures and 356 nestlings banded.

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4 ✓

Feb. 27- Mar. 2, 1964 -- Sibley: "Estimated 1500-2000. 77 nests with eggs, 1 small young, 1 large young. 100's of fresh nests. Males with throat pouches inflated. 2 returns and 19 recoveries."

5 ✓

Feb. 28, 1964 ----- Clapp: " census run of Greater Frigate colony. Most nests contained nothing and the majority of males had expanded throat pouches. " "One newly laid frigate egg laid in nest in trees to southeast. " (Laid since our arrival and the first nest in this particular area to produce an egg. )

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July 14-17, 1964 ----- Sibley summary : "Scattered colonies all along west side with the major colony at the tree clump on west side. Most of young small. Nests in open were only a few inches off the ground in Sida, Portulaca, or other slight elevation. 50 males and 50 females banded. Nest Count :

	Area 1	Area 2 Tree colony	Rest of area	Total
1 egg	333	785	86	1204
young	<u>308</u>	<u>600</u>	<u>40</u>	<u>948</u>
	641	1385	126	2152

Estimated 5000 adults.

5 ✓  
July 15, 1964 ----- Hackman : " Found an abnormal Greater Frigate egg while making the nest survey. The egg was about 1/3 normal size and was oval rather than the normal oblong shape. The egg was broken open and found to have no yolk. A male had been tenaciously sitting upon the egg. "

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6 ✓  
Nov. 11, 1964-----Sibley: "...large colony on west side. Numerous immatures present..."

6 ✓  
Nov. 9-12, 1964 ---Sibley summary: "2 collected, 20 blood samples, 500 nestlings banded. Estimated 3,000. 19 nests with 1 egg, 1115 with young, over 1,000 immatures."

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7 ✓  
Feb. 12-16, 1965 --- Hackman Summary: 1310 nests with eggs, 21 nests with small nestlings. Many eggs pipped. Estimated 6,000 adults and immatures. 293 banded and marked with plastic streamers on each wing (blue on right wing and white on left) 2 band returns also marked with streamers).

7 ✓  
February 13, Hackman: blood sampled 25 Greater Frigatebirds...The Greater Frigatebirds are on fresh eggs in the main colony and in the smaller colonies that are located in the interior along the south end of the lagoon. There are few nestling frigatebirds on the island.

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8 ✓  
May 30-June 1  
Sibley Summary: 30 blood samples, 3 collected. 825 nests with eggs, 952 with young. Estimated 4000 birds.

8 ✓  
Sibley - species account : May 30 - nest count southern third of island (i.e. south from lighthouse around to area on east shore opposite house) 173 nests with eggs, 185 with small young, 18 with large young plus 11 other nests

8 ✓  
May 31: - house to frigate colony count - 78 nests with eggs, 60 with small young  
90 with large young.

May 31 - Sibley, species account: Count of frigate colony - 566 nests with eggs,  
373 with small young, 134 with large young.

8 Count ~~of~~ from Frigate colony to Guano heap: 8 nests with eggs, 33 with small  
young, 22 with large young.

Two birds with a white streamer on the left wing and a blue streamer on the  
right wing seen.

9 Oct 1-3, 1965 - (Fleet) nest count { eggs - 47  
sm. nestl - 346  
lg. nestl. - 331

11 " (BAH) - common breeder in bushy areas  
near the guano.

11 (Repler) - banded (25) - great numbers  
seen flying over island.

SIC 11

GREAT FRIGATE

Enderbury Island.

Feb 15, 1966 - Crossin - concentrated in one colony on W side of island in the Messerschmidia grove. About  $\pm 5000$  in colony - but island pop. probably between 3-4,000.  $\frac{2}{3}$  of pop. appear to be immatures. Most adults are starting their new nesting cycle. 75 nests present in main colony - 50 of these had fresh eggs. All nests built in Messerschmidia bushes. (9) nests present in south end of the island built on Sida clumps only a few inches from the ground. All contained fresh eggs.

ENDERBURY

birds ----- annotated list

RED FOOTED BOOBY

2 *Estimated 1500* ✓  
 July 11-16, 1963 ----- Sibley: " A common species restricted to various groves of trees where it roosted and nested. Most white with gray wings and back. Some all grayish brown. Considerable variation of white with gray pattern. Foot too small for 7B band. 318 nests with one egg, 209 nests with chick, 49 with nestlings (large enough to band) total (576)

3 ✓  
 Nov. 16-20, 1963 ----- Sibley: "Common in various clumps of trees. 41 nests with eggs, 40 nests with small young, 217 large young. Total (298) Estimated 1200-1500 adults. 140 immatures, 3 subadults, and 217 nestlings banded.

4 ✓  
 Feb. 27- Mar.2, 1964 - Sibley: " Estimated 500\* -- 27 immatures banded. 34 immature returns. No nesting. Roosting birds distributed as during nesting.

5 ✓  
 July 14-17, 1964 ----- Sibley summary: Distributed as on previous trips. 222 adults and 209 nestlings banded with ~~87~~ 87 returns and 2 recoveries. Nest Count.

	<u>Southern tree clumps</u>	<u>Frigate colony west side</u>	<u>Guano heap</u>	<u>Total</u>
1 egg.	70	33	10	113
small young	88	47	9	144
large young	<u>159</u>	<u>49</u>	<u>40</u>	<u>248</u>
total	317	129	59	505

Estimated 1500 adults.

6 ✓  
 Nov. 9-12, 1964 -----Sibley summary: "2 collected, 20 blood samples. 63 adults, 35 immatures and 225 nestlings banded. 44 adult and 24 immature returns. Estimated 800 birds on the island. 34 nests with 1 egg, 29 nests with small young, 229 nests with large young."

## ENDERBURY

## RED\*FOOTED BOOBY

February 12-16, 1965 - Hackman, Summary : 185 nests with eggs, 150 nests with young. 369 banded, 248 returns. Estimated 1200.

7 February 12 - Hackman (species accounts): 320 nests (185 with eggs, 150 with chicks).

Nests on Enderbury contained fresh cuttings of Cordia, both blossoms and leaves.

May 30-June 1, 1965 - Sibley, Summary: 20 blood samples. 159 banded, 129 returns. Estimated 1000-1200 adults. 202 nests with eggs, 189 with young.

May 30, 1965 - Sibley (species accounts) - "southern colonies" 1 egg (94)

8 small young (32), large young (123). 20 blood samples, 8 returns.

May 31, 1965 - Sibley (species account): Nest count completed.

"Great Frigate colony area - 1 egg (66), small young (5), large young (15).

Guano heap colony " - 1 egg (42), small young 6), large young (8). Banded the above two colonies after dark. 17 nestlings, 12 immatures, 2 subadults and 128 adults banded. 90 adult, 22 immature and 9 subadult returns.

9. Oct 1-3, 1965 (Fleet) nest count { - 1 egg - 121  
sm. nestl. - 21  
one adult defended { lg. nestl. - 178  
its nest when approached.

" " (BAH) - A very common breeder in the presently bush covered areas as well as in areas with dead bushes. One adult was seen a great frigate nestling.

SIC 11

Red Footed Booby

Enderbury Island

Feb 15, 1966 (Crossin) - present in three different concentrations -

- ① SE side of lagoon
- ② W side of lagoon in *Messerschmidia* grove, mixed with Great Frigates (450 present here)
- ④ only about 25 pair had nests all with eggs.
- ③ third small group of 100 birds in *Cordia* grove. 12 nests with eggs present.

## ENDERBURY

## Audubon Shearwater

6 November 10, 1964 ----Sibley: "Two seen at dusk coming ashore."

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February 12-16, 1965 --- Hackman, summary: Four birds seen (1 collected, 2 banded) on the guano pile on north end of island.

7 Woodward - Feb. 16, 1965 --- I found one Audubon's on top of the pile.

Feb. 13, 1965 --- Huber banded 1 Audubon's Shearwater and collected one.

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May 30 - June 1, 1965 ---- Sibley, summary : Two seen.

8 May 31, 1965 - Sibley: Two seen at 1900 over west side of island.

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none seen on trips 2, 3, 4, 5 ~~6~~ 11

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9 Oct 1, 1965 (Kepler) saw one while on watch (0800-0900)