

Howland  
Memoranda

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Smith

SIC15  
Howland  
15-20 Sept  
1966

✓ ADP  
CPA  
Done 8/19/68

Howland Island

Bands received

863-51501 thru 52000

Banded Blue faced Booby  
Chicks + Streamers

Sept 16, 1966

~~568-70622 thru 70700~~

~~568-70051 thru 70100~~

Banded Sooty Tern Chicks

16 Sept 1966

863-51501 thru 52000 N.

Total 500 Bands Used

17 Sept

Brown Booby Nest count

1 large Downy chick

1 immature

1 nest 2 eggs -

1 nest 1 egg

1 nest 2 eggs -

1 nest 3 eggs

1 nest 1 egg

1 nest 2 eggs -

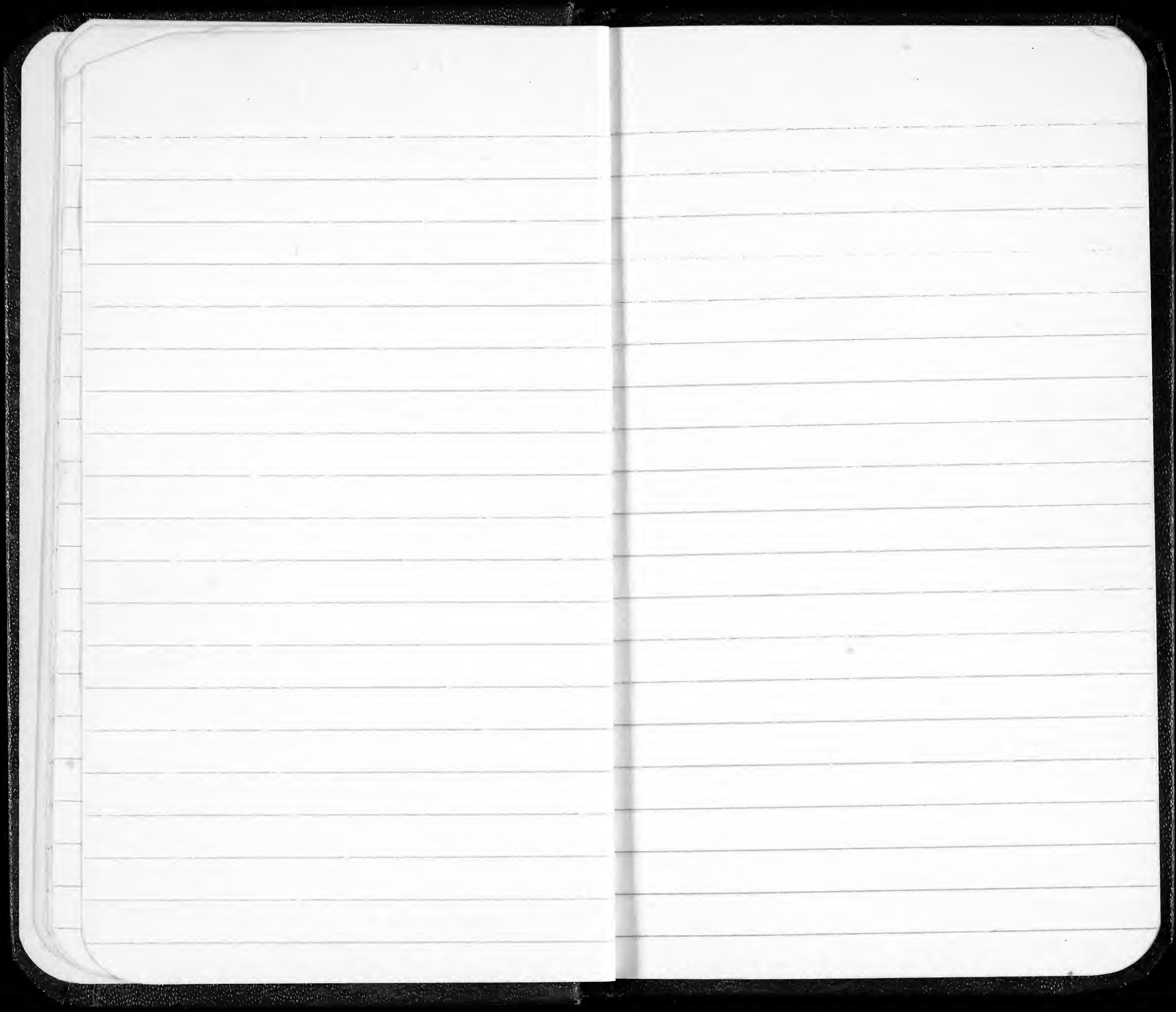
1 nest 2 eggs -

1 nest 2 eggs -

1 nest 1 egg

1 nest 3 eggs

17 Sept 1966



Notes

16th Sept

Saw 1 Bristlethighed Curlew  
inland on NE side of island

Notable reduction in tern  
swirl at North end of  
island - estimate 250 in air  
+ 50 imm. at 1000

Saw 1 Bristlethigh + 5 Golden  
Plovers middle of island

Breeding of Blue faced Booby  
appears to be at later stage  
on SW end of island -  
less eggs & higher proportion  
of young chicks

Breeding of BFB generally  
appears to be at late stage with  
some new breeding (unhatched eggs)  
apparent particularly at North  
end of island



All BFB breeding in areas of low vegetation - generally Tribulus areas - all nests are on ground - scooped out area ~~in~~

In other words a typical BFB nest

Breeding ~~is~~ in area or strip about 100 yds wide from edge of beach (beginning of vegetation zone) generally all around island with heavy concentrations at NW and SW ends of islands - some nests scattered in center of island (20 to 30)

Note: Sooty Tern Swirl at North end of island building up rapidly at 1200. Now at least 4000 birds in it. Mostly Adult & Adult birds

must have gone out to sea to fish late in night or early morning and are now beginning to come back in. (At 1000 estimate 250 Ad)

Swirl of estimated 2000 Lesser Frigates (about 50-50 ♂-♀) and a few Subadults over island stretching about a half mile out to sea in an east-west direction at middle of island few seen on North or South ends of island - few Greater mixed in swirls



Brown Boobys breeding in same  
area with BFB at SW end of  
island

Saw 2 RTTB's displaying  
on wing over middle of island  
1415

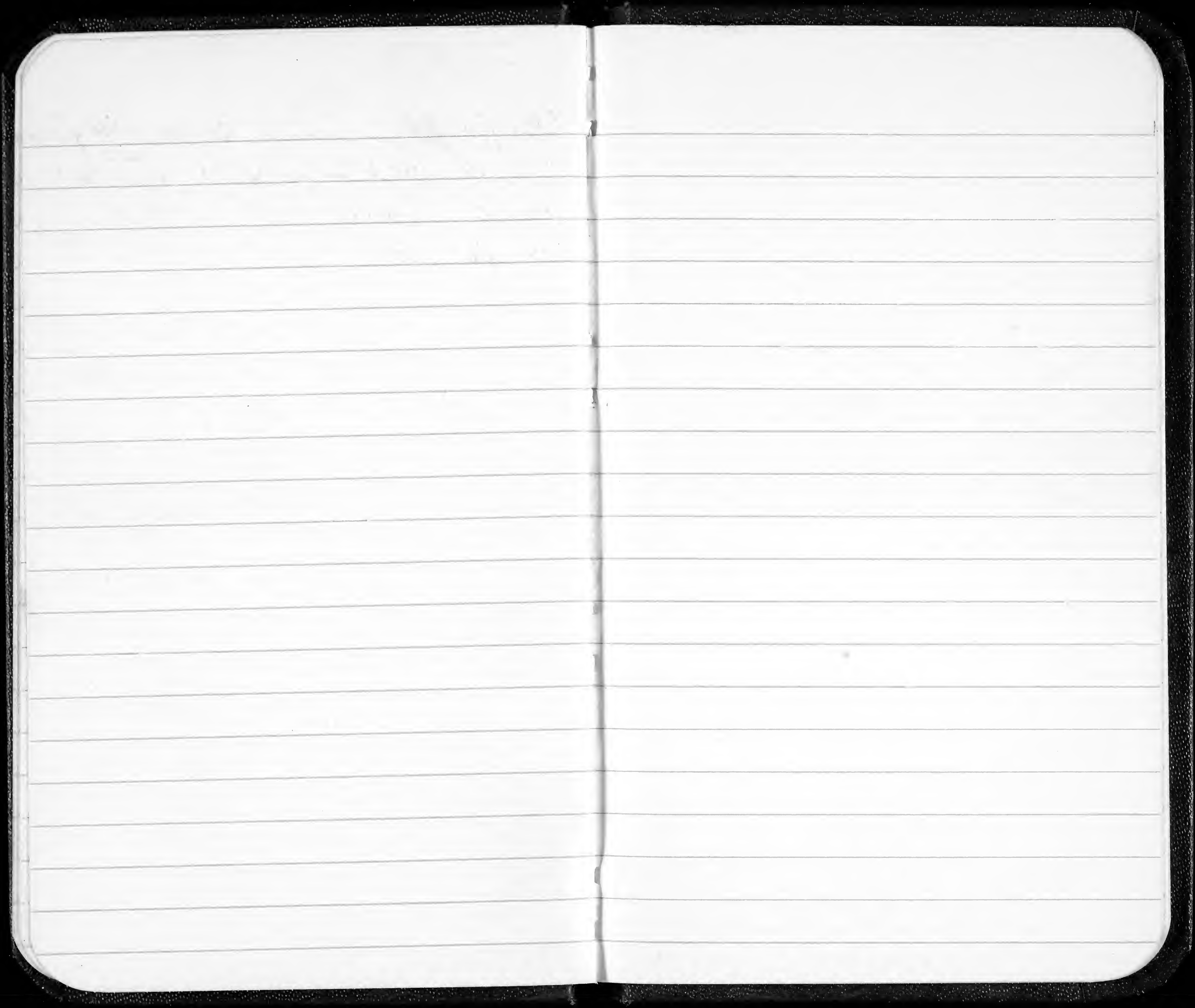
Saw Lesser Frigate ♂ chasing  
Sooty Tern 1517

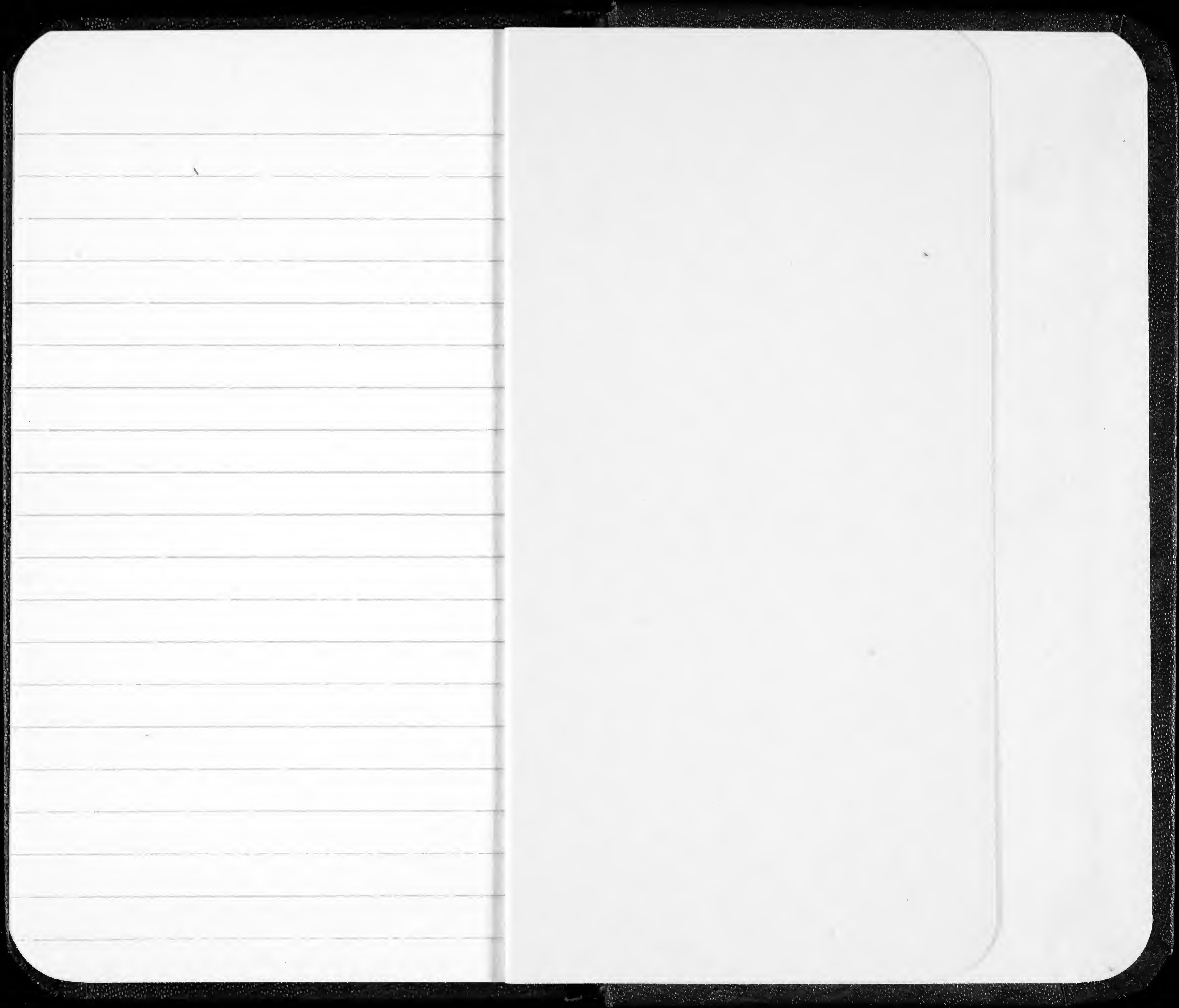
Saw 4 Bristle thighed Curlew  
in front of camp 1830

Saw mouse while banding  
in Sooty Colony at North end  
of Island

17th

Approximately 3000 birds (Sooty Terns)  
swirling over colony at north  
end of island at 1600  
50% imm







7530-222-0078  
FEDERAL SUPPLY SERVICE

GPO

45-16-73124-2

Memoranda

Thompson

SICIS  
Howland  
15. 20 Sept  
1966

✓ ADP  
Ked. + Bandy

Thompson  
Howland.

73726806

773-20292

✓ ADP  
CPA  
Done 9/3/68



15 Sept 1966

Bands Received

(A) ① 863-51001-51500

— USED — 51001 — 51500

② 8637 & 1831-18300

— USED — 1831-60

① Bands Used

863-51100-51500

Total 400 Bands Used

on Sooty Tern chicks

NIGHT - Sept. 15 - 1966

Banding -

Howland Island  
Sept 16 1966

SOOTY TERNS

863-5101 - 51500

Chicks

+ Steamers

BIRDING

Howland Island  
17 Sept 1966

Lesser Frigate + Streamer

~~732 - 81831 ♀~~

~~32 ♂ N~~

~~33 ♀ N~~

~~34 ♀ E~~

~~35 ♀ E~~

~~36 ♂ E~~

~~37 ♂ NC~~

- NAKED CHICK

~~38 ♂ "~~

"

"

~~39 ♂ N~~

~~40 ♂ E~~

~~41 ♀ N~~

~~42 ♀ E~~

~~43 ♀ E~~

~~44 ♂ E~~

~~45 ♀ E~~

~~46 ♂ E~~

~~47 ♂ N~~

~~48 ♂ N~~

BANKING

LESSER FRIGATES

17 Sept 1966

Howland Is.

+ streamer.

~~49 ♀ N~~

~~50 ♂ N~~

~~51 ♂ E~~

~~52 ♀ E~~

~~53 ♂ E~~

~~54 ♂ E~~

~~55 ♀ E~~

~~56 ♀ N~~

~~57 ♂ N~~

~~58 ♂ N~~

59 Immature

60 Immature

✓ADP Howland Is 17 Sept 46  
✓ADP Rehwas RT Booby

9 Inter s ✓747-53566 ♂A Inter Phase  
✓777-50546 ♂A In Phase

✓777-52224 ♀ Sub A Imp

✓777-52221 - Sub A Imp

✓777-57480 Sub A Imp

Inter s ✓747-68466 Sub A Imp

Inter s ✓747-51067 A Inter Ph

✓777-55677 Sub A Inter P

✓707-48252 SPA Inter P

✓747-51019 Ad Inter Phase

Inter s ✓747-50726 Sub A Inter P

Inter s ✓747-652715 Sub A Inter Phase

✓587-83696 Sub A Inter Phase

✓ADP Howland Island 17 Sept 1966  
RETURNS Blue-faced Booby

~~737-53484 Ad ♂~~  
~~737-23923 Ad ♀~~ } Pair ✓

~~737-20998 ♂ Ad~~ } Pair ✓  
~~737-20895 ♀ Ad~~ + Imm ✓

~~737-28924 ♂ Ad~~ } Pair ✓  
~~558-85060 ♀ Ad~~

~~737-27947 ♂ Ad~~ } Pair ✓  
~~737-68282 ♀ Ad~~

~~587-82805 ♀ Ad~~ } Pair ✓  
~~737-20886 ♂ Ad~~ } Imm ✓

~~737-886~~ } <sup>20860</sup> ♂ Ad X?

Returns -

Morland Island

2 sept 1968

Great Frigates<sup>17</sup>

~~737-26806 Ad ♀~~

~~on ChyK~~

Howland Island

18 Sept 1966

TICK Survey

1 Ad Tick seen in RFB  
nest - 1 chum

1 ♀ 10<sup>7</sup> 3 chicks Lesser  
Frigates checked for ticks  
none found

1 ♀ Greater Frigate -  
+ 1 chum - no ticks



Howland  
Island  
Bulwer Samples 18 Sept 1966

~~Sooty Tern Colony Litter  
32-42~~

~~Blue faced Booby nest  
1 chick - ES 15-43~~

~~RTTB Nest - 1 chick  
ES 15-44, 45, 47, 49~~

~~RTTB Nest - empty - 2 adults  
ES 15-46~~

~~RTTB Nest - 1 imm  
ES 15-48~~

~~RTTB Nest - 1 egg  
ES 15-50~~

18-8:00  
19-4:30  
20-8:00

BANDING

20 Sept 1966

Lowland Island

~~2713~~

Pacific Ocean  
Red-Tailed Tropicbird

615-11412 - Ad / IE

615-11411 - ~~Imm~~ Chick

13 - Chick

14 - Imm

15 - Chick

16 - Chick

17 - Imm

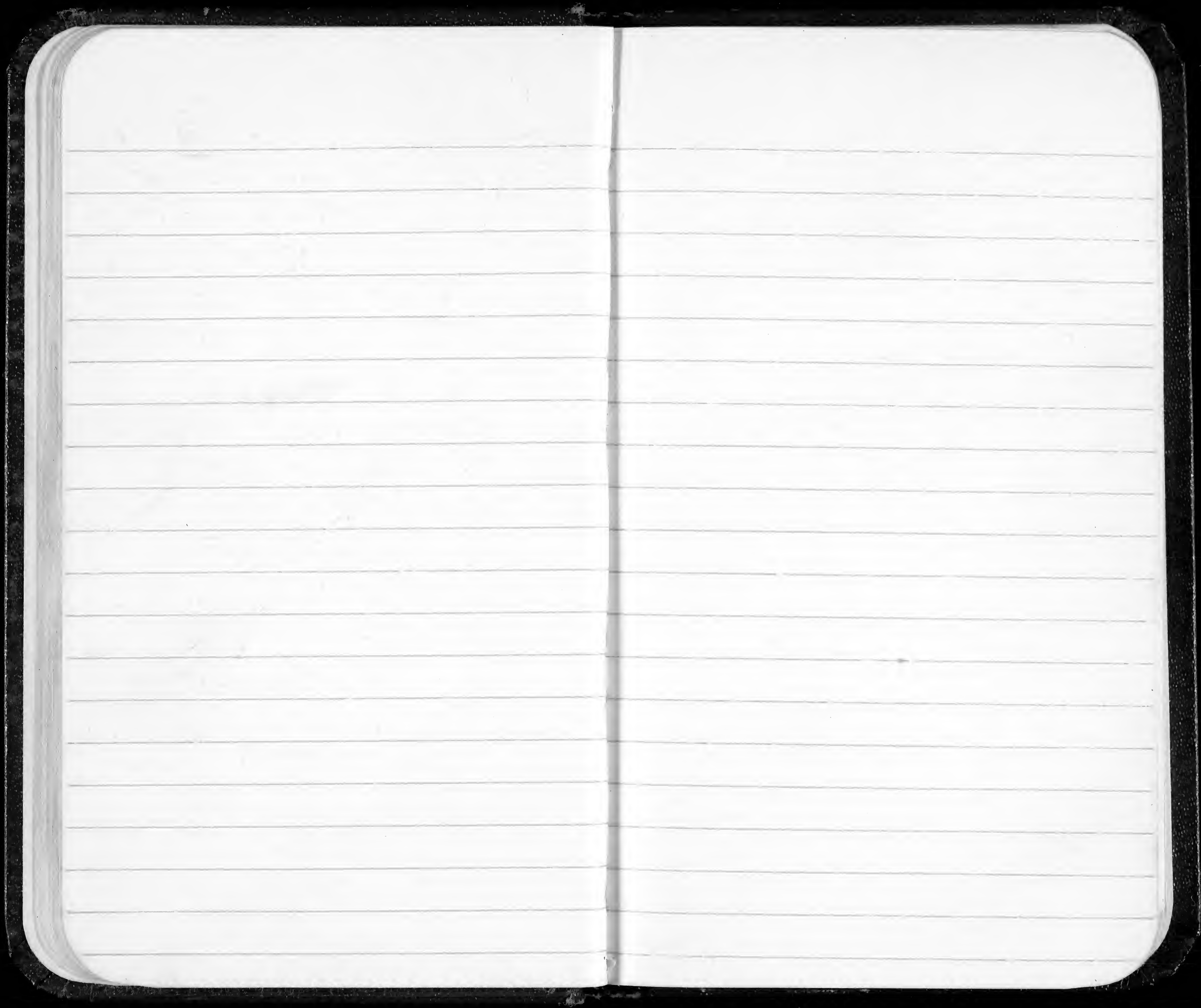
18 - Imm

65 } Island Birds  
66 }  
67 }

68 } Common Snakes  
69 } odd, from B. Kan  
70 }

Berline Samples  
Howland Island Sept <sup>20</sup> 1966

~~ES 5-51 BFB - 2E  
52 BFB 2E  
53 BB - 2E  
54 BB - 2E  
55 BB 2E ITICK  
56 BB 3E  
57 BB 1E  
58 BB 3E  
59 BB 2E  
60 BB 1E  
61 BFB 1 naked chick  
62 BFB 1 naked chick  
63 BFB 2E  
64 BFB w naked ch~~



Blue faced Booby

1E

2E

1E/C

1NSD

2-

1NLD

2NLD

1Dm

2m

Blue faced

~~Brown~~ Bobby

527

1E	2E	1E/W	1NSD	1AN	1NLD	2NLD	1Dm	2Dm
<del>    </del>					<del>    </del>		<del>    </del>	
<u>1</u>	<u>    </u>		<u>7</u>	<u>5</u>				
15	19							
					<del>    </del>			
							<u>30</u>	
					<u>87</u>			

1912

Jan 1

Jan 2

Jan 3

Jan 4

Jan 5

Jan 6

Jan 7

Jan 8

Jan 9

Jan 10

Jan 11

Jan 12

Jan 13

Jan 14

Jan 15

Jan 16

Jan 17

Jan 18

Jan 19

Jan 20

Jan 21

Jan 22

Jan 23

Jan 24

Shore birds seen 16 Sept 1968

RT - ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ |

BTC - 11/

GP - ~~||||~~ ~~||||~~ ~~||||~~ ||

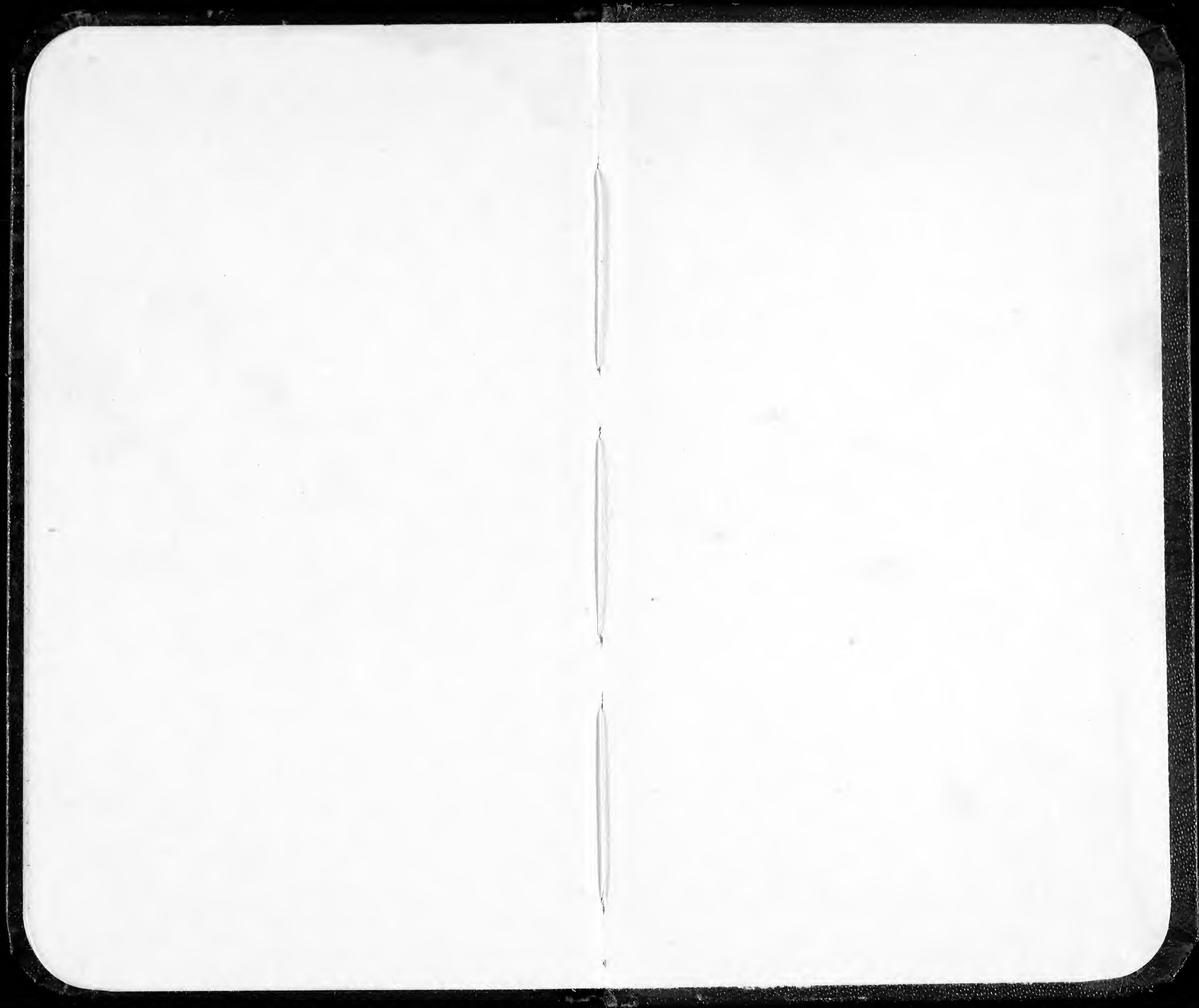
RTTB - 15±3

CADBY - 1

Brown Booby - 10±1 adults

with eggs or chicks - on  
South end of Island with  
Blue foots





7530-222-0078  
FEDERAL SUPPLY SERVICE

GPO 62-11-75121-3

~~Howland  
Tuxson~~

Tuxson

SIC15  
Howland  
15-20 Sept  
1966

NO ADP

~~CRST~~  
Done 12/21/68

17-228

[Faint, illegible handwriting on lined paper]

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Sooty Tern SEPT 16 1966  
Howland Island (NOCTURNAL)

BANDS ISSUED - #3's

863 - 52501 - 53000 - 500  
↓

ALL BANDS USED UP  
ON SOOTY TERN CHICKS

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NO RETURNS OR  
RECOVERIES

16 Sept 1966

~~BAND~~

SEPT 17 - NOCTURNAL  
HOWLAND ISLAND

BANDS ISSUED = #7A's

LESSER FRIGATES - ADULTS

777 - 51547 - 51600 } TOTAL

737 - 81701 - 81800 } ~~TOTAL~~

BANDS USED - Total (100)

737 { 81701 } started sex at 22  
 { 81800 }

ALL ON CHICK

SEX

22	♂	32	♂	42	♂
23	♂	33	♂	43	♂
24	♂	34	♂	44	♂
25	♂	35	♂	45	♂
26	♂	36	♂	46	♂
27	♂	37	♂	47	♂
28	♂	38	♂	48	♂
29	♂	39	♂	49	♂
30	♂	40	♂	50	♂
31	♂	41	♂		

HOWLAND ISLAND  
POPULATION ESTIMATES

SEPT 15-17

ADULT BIRDS | OTHER  
 GF

Sept 17 - Lesser Frigate  
 adults

continued

ALL ON CHICK

BANDS USED

51	♂	66	♂	81	♂	91	♂
52	♂	67	♂	82	♂	92	♂
53	♂	68	♂	83	♂	93	♂
54	♂	69	♂	84	♂	94	♂
55	♂	70	♂	85	♂	95	♂
56	♂	71	♂	86	♂	96	♂
57	♂	72	♂	87	♂	97	♂
58	♂	73	♂	88	♂	98	♂
59	♂	74	♂	89	♂	99	♂
60	♂	75	♂	90	♂		
61	♂	76	♂				
62	♂	77	♂				
63	♂	78	♂				
64	♂	79	♂				
65	♂	80	♂				

SEPT 17 - NOCTURNAL  
HAWLAND ISLAND

BANDS ISSUED = #7A's

LESSER FRIGATES - ADULT

Sept 17 - Hawland Is.  
 Lesser Frigate - Adults

on eggs

81901	01	21	04	41	07	61	04	81	07	101
2	07	22	07	42	07	62	07	82	07	
3	04	23	07	43	04	63	04	83	07	
4	04	24	07	44	04	64	04	84	07	
5	07	25	07	45	07	65	07	85	07	
6	07	26	07	46	07	66	07	86	07	
7	04	27	07	47	07	67	07	87	07	
8	07	28	07	48	07	68	07	88	07	
9	07	29	07	49	07	69	07	89	07	
10	04	30	04	50	04	70	04	90	04	
11	04	31	04	51	04	71	04	91	04	
12	04	32	04	52	04	72	04	92	04	
13	07	33	07	53	07	73	07	93	07	
14	07	34	07	54	07	74	07	94	07	
15	07	35	07	55	07	75	07	95	07	
16	07	36	07	56	07	76	07	96	07	
17	07	37	07	57	07	77	07	97	07	
18	07	38	07	58	07	78	07	98	07	
19	07	39	07	59	07	79	07	99	07	
20	04	40	07	60	07	80	07	100	07	

100 BANDS

HAWLAND ISLAND  
POPULATION ESTIMATES

SEPT 15-17

SHOREBIRDS	OTHER
WT	GF
RT	LF
BTC	RFB
RH	BFB
GP	RTTB
	RB
	ST
	CNT

#49 on 2 eggs

100 07



Sept 17th 1966

Banded RFB Booby

777-51547 thru Ad Int

48 Ad Int

49 Local

50 Ad Int

51- Sub Ad Int

52- "

53- "

54- "

55- "

17 Sept 1966

Red Footed Booby

777-51547-51600 - disused

Bands Used

777-51547-51555

Total - 9 Bands.

2008

11/17/08

11/18/08

11/19/08

11/20/08

11/21/08

11/22/08

11/23/08

11/24/08

11/25/08

11/26/08

11/27/08

11/28/08

11/29/08

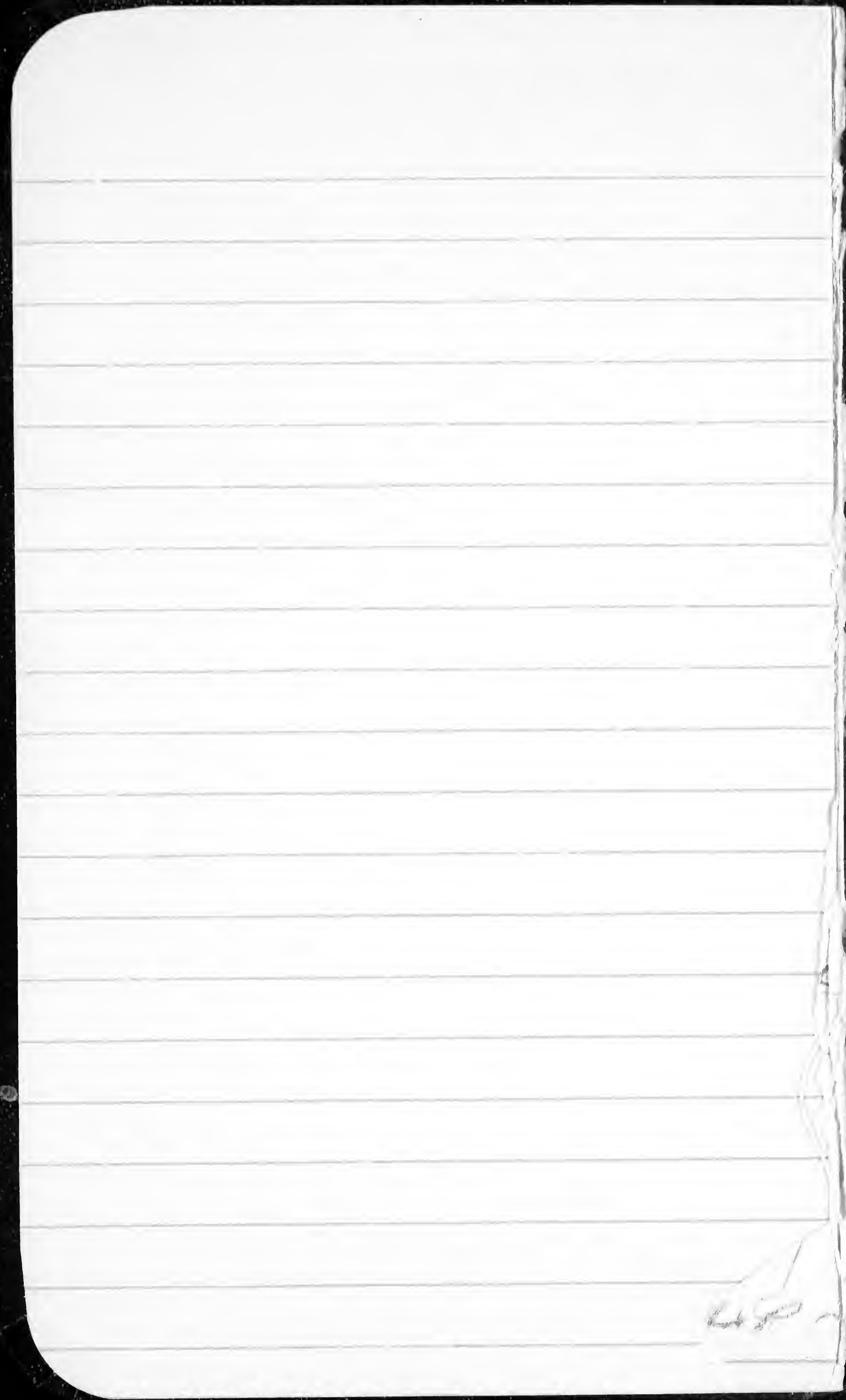
11/30/08

12/1/08

12/2/08

12/3/08

12/4/08



7530-222-0078  
FEDERAL SUPPLY SERVICE

890 643-10-73124-2