

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



17th June



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 ~~area~~

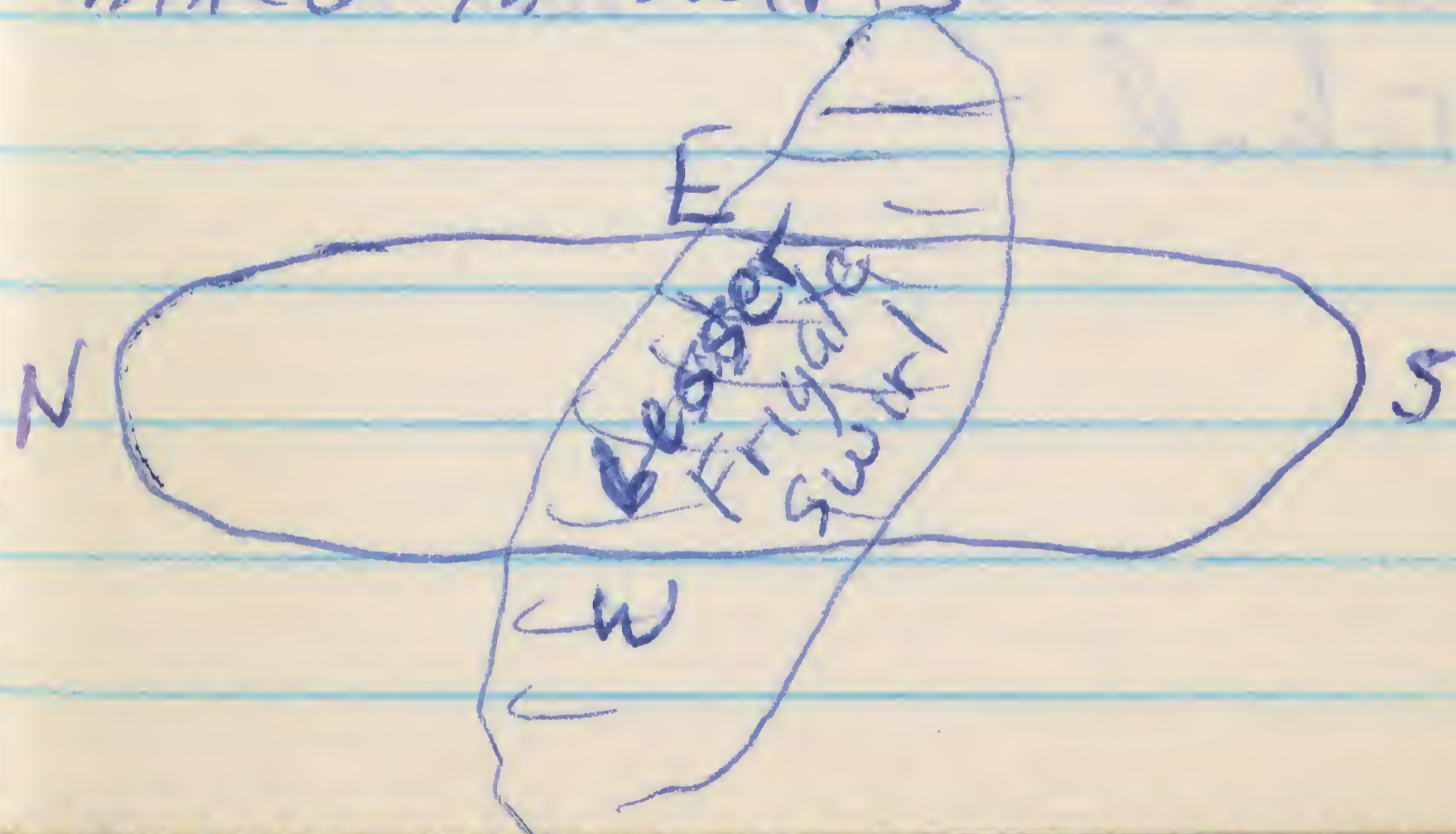
In other words a typical BFB nest

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 Tern) swirling over colony at north end of island at 1600  
50% imm



17

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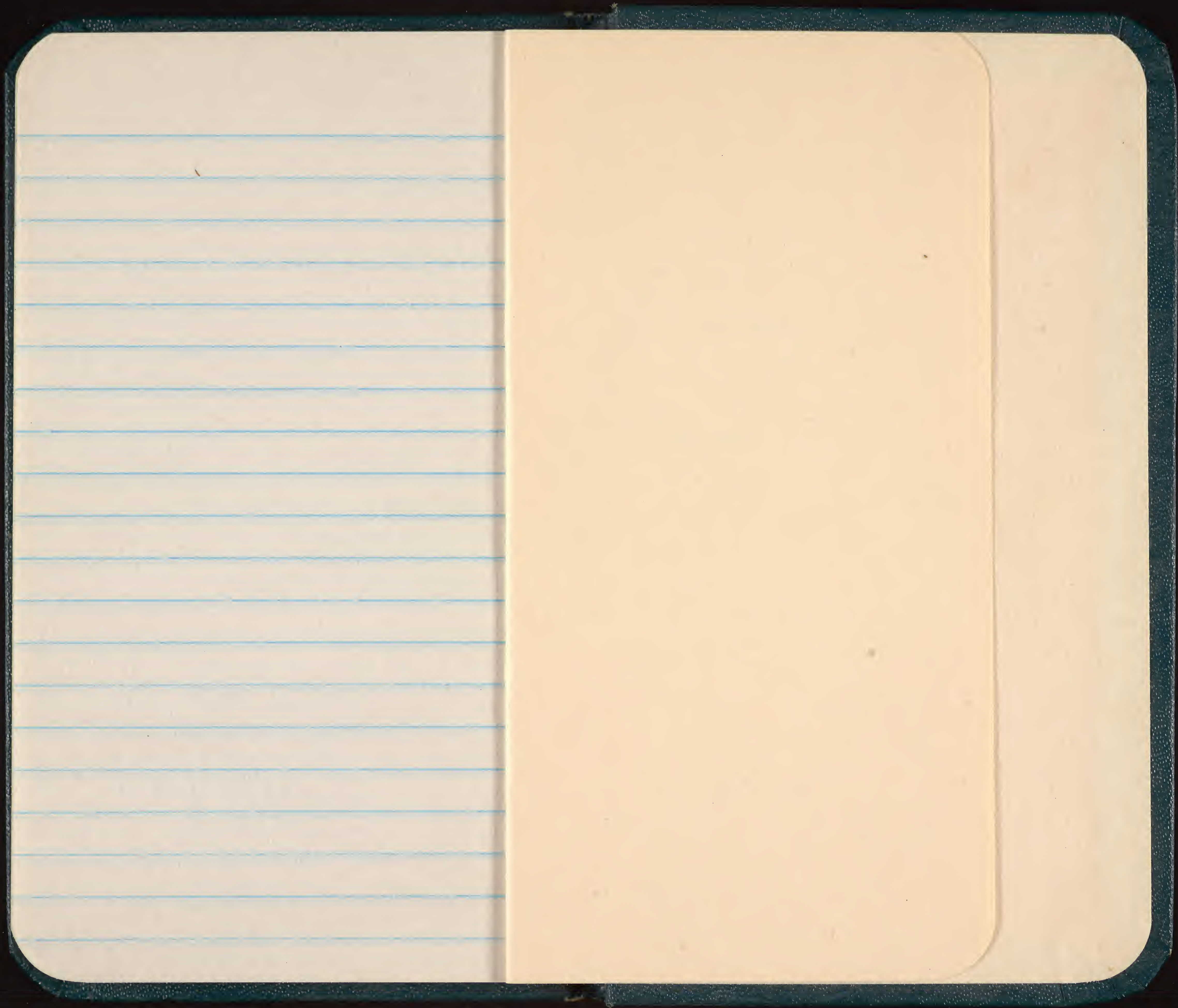
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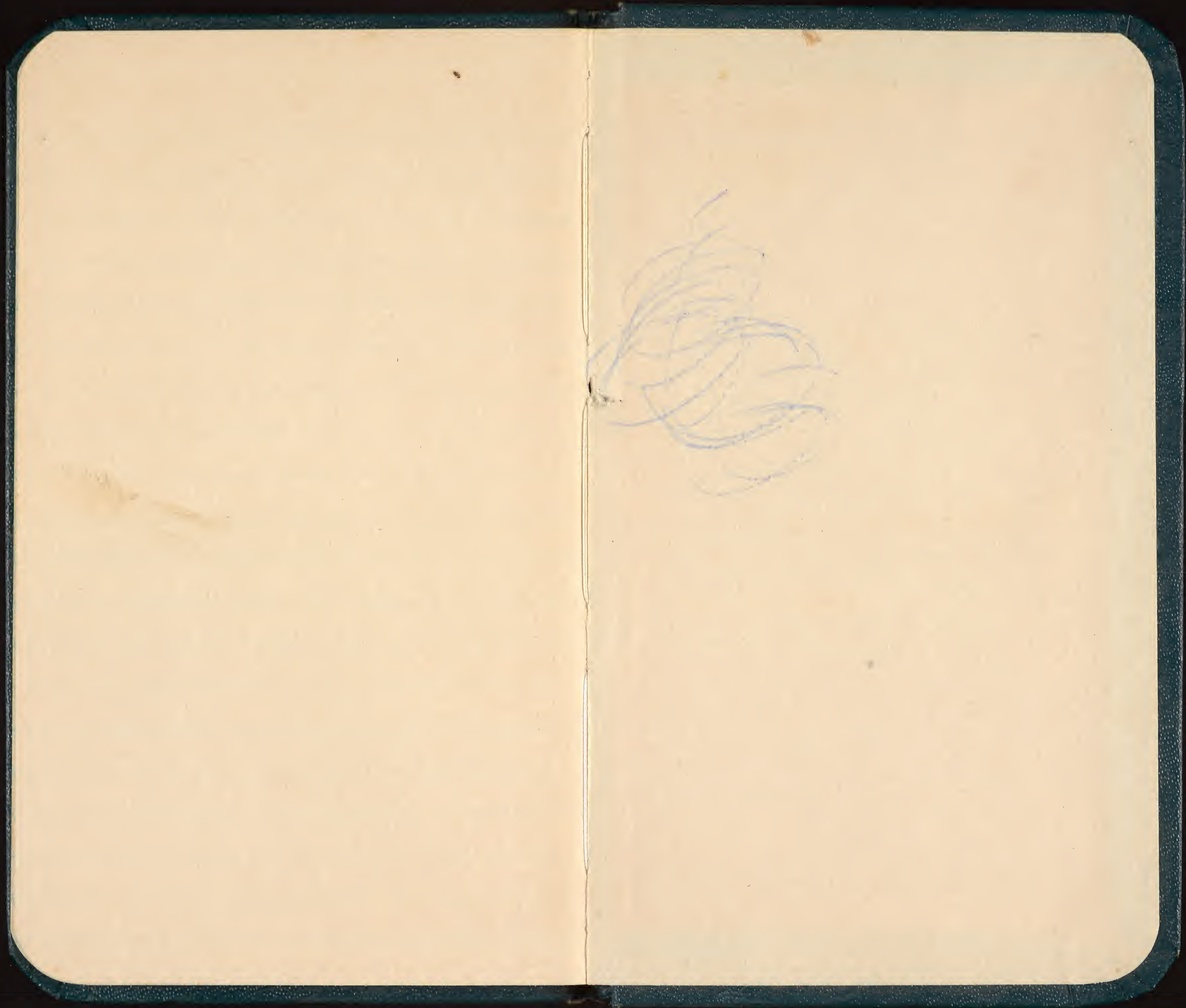
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**7530-222-0078**  
**FEDERAL SUPPLY SERVICE**

GPO 43-16-73124-2



Memoranda

SICIS  
Howland  
15. 20 Sept  
1966



✓ ADP  
Ked. + Bony

Thompson  
Howland.

73726806

773-292

✓ 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



DAMPING

Howland Island  
17 Sept 1966

Lesser Frigate + Streamer

732-81831 ♀ ✓

32 ♂ N

33 ♀ N

34 ♀ E

35 ♀ E

36 ♂ E

37 ♂ N - 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  
✓A.D.P.

Howland Is 17 Sept 1964

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 In P

✓~~777-57480~~ sub A In P

inter s

✓~~747-68466~~ sub A In P

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 ~~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?



Mardian Island

Returns -

2 sept 1968

Great Frigates<sup>17</sup>

~~737-26806 Ad ♀~~

~~on Chuk~~



Howland Island

18 Sept 1966

TICK Survey

1 Ad Tick seen in RFB  
nest - 1 chick

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

1 ♀ Greater Frigate -  
+ 1 chick - no ticks



Howland  
Island  
Balise 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  
~~27/8~~ low land Island  
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 }  
 69 } Common Samples  
 70 } odd, from B. Kan

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 1 tick  
 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~~



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Blue faced Booby

1E 2E 1E/C 1NSD - 2 - 1NLD 2NLD 1Dm 2m

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Shore birds seen 16 Sept 1968

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

BTC - |||

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 643-10-75124-3



~~Howland~~  
Memoranda

Tyson

SIC15  
Howland  
15-20 Sept  
1966



NO ADP

CPST ✓  
Done 12/21/68



2007  
Hawaii Islands

Blue Islands - 10  
10/10/07

10/10/07  
10/10/07

10/10/07  
10/10/07

10/10/07  
10/10/07

10/10/07  
10/10/07

10/10/07  
10/10/07

10/10/07

10/10/07

10/10/07

10/10/07

10/10/07

10/10/07

10/10/07



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

~~LAURENCE TIP 3  
HOWLAND ISLAND  
BANDS ISSUED - #3's  
863 - 52501 - 53000 - 500  
ALL BANDS USED UP  
ON SOOTY TERN CHICKS  
NO RETURNS OR  
RECOVERIES  
16 Sept 1966~~



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 1 CHICK

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

HOWLAND ISLAND  
POPULATION ESTIMATES

SEPT 15-17

NOCTURNAL BIRDS | OTHER  
 GF

Sept 17 - Lesser Frigate  
 adults

continued

ALL ON 1 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	♂	99	♂
61	♂	76	♂	90	♂	99	♂
62	♂	77	♂	90	♂	99	♂
63	♂	78	♂	90	♂	99	♂
64	♂	79	♂	90	♂	99	♂
65	♂	80	♂	90	♂	99	♂



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	100
2	07	22	08	42	08	62	07	82	07	
3	04	23	08	43	04	63	04	83	07	
4	04	24	03	44	04	64	04	84	07	
5	07	25	04	45	04	65	07	85	07	
6	07	26	07	46	04	66	04	86	07	
7	04	27	04	47	07	67	07	87	07	
8	07	28	03	48	04	68	07	88	07	
9	07	29	03	49	04	69	04	89	07	
10	04	30	04	50	07	70	04	90	04	
11	04	31	04	51	07	71	04	91	04	
12	04	32	04	52	07	72	04	92	07	
13	07	33	04	53	04	73	07	93	07	
14	07	34	04	54	04	74	07	94	04	
15	07	35	07	55	07	75	07	95	04	
16	04	36	07	56	04	76	07	96	04	
17	07	37	04	57	04	77	07	97	04	
18	07	38	07	58	07	78	07	98	04	
19	04	39	04	59	04	79	07	99	04	
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

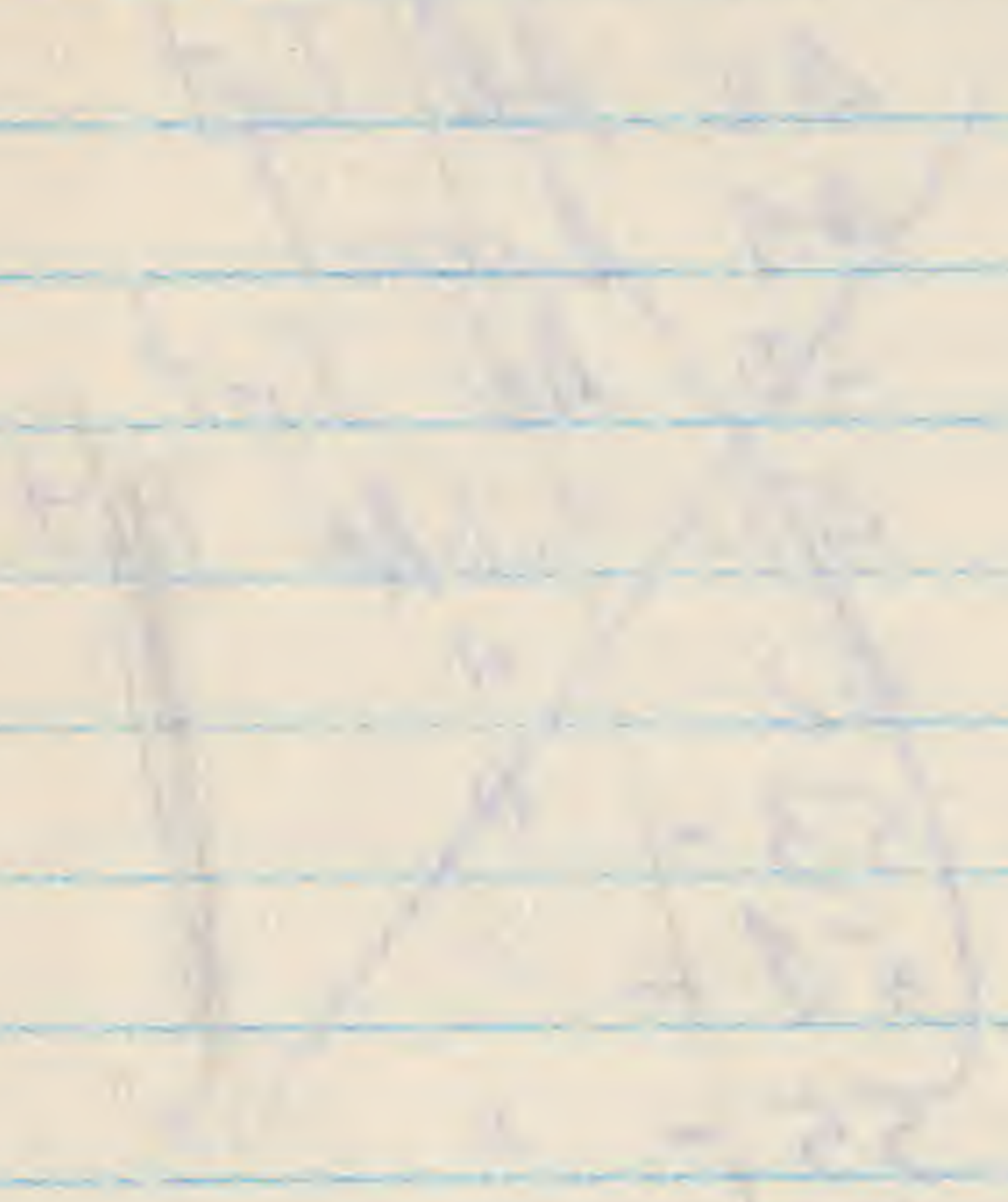
777-51547-51555

Total - 9 Bands.



2001-2002

100-1000-1000-1000



100-1000-1000-1000

100-1000-1000-1000

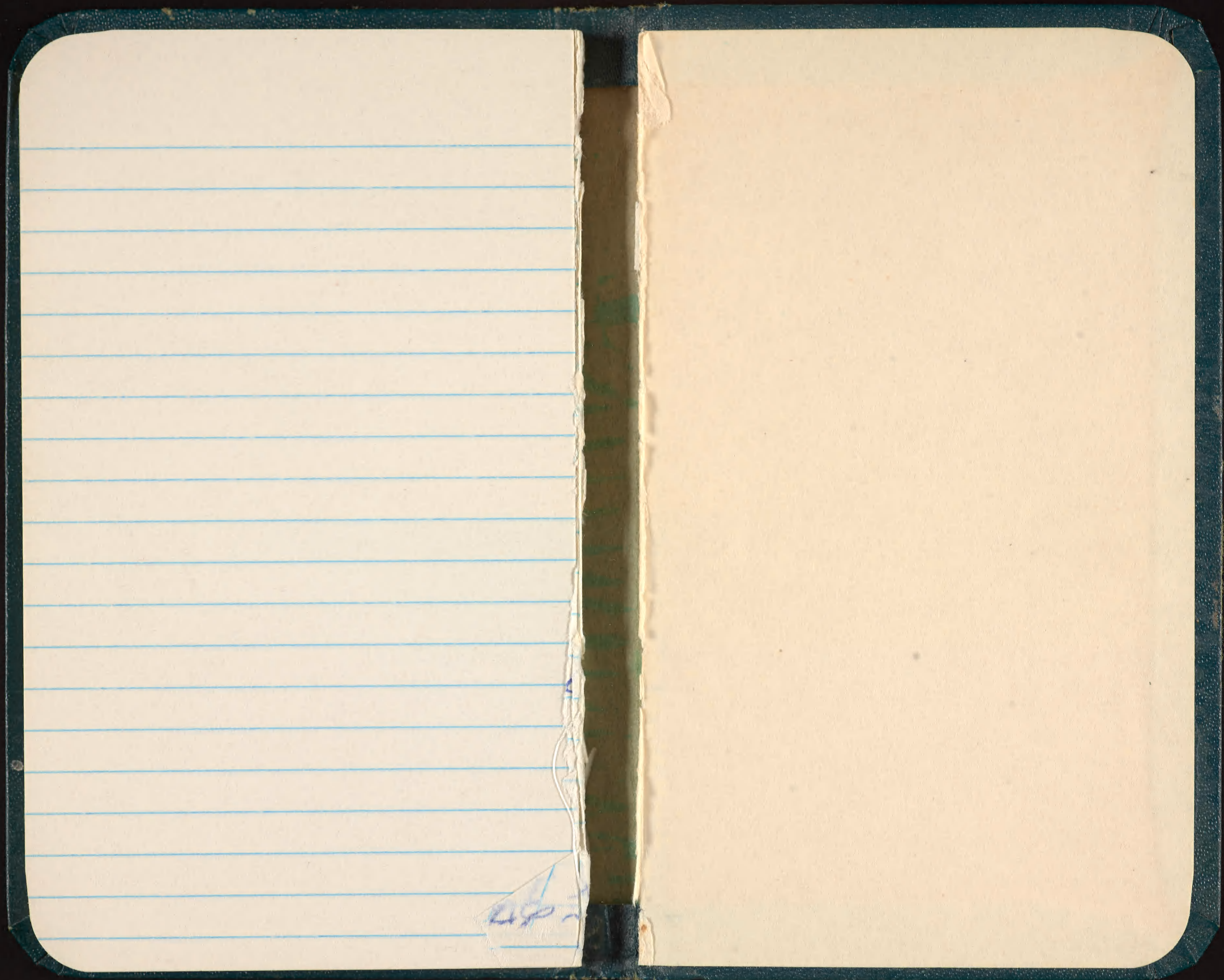
100-1000-1000-1000

100-1000-1000-1000

100-1000-1000-1000

100-1000-1000-1000





48



**7530-222-0078**  
**FEDERAL SUPPLY SERVICE**

GPO c43-10-73124-2