

Sic 1	#	# Dir. Mag.	Locality	Time obs.	Min. Mag.
1963					
4 Feb AM	2	0	21-17N 57-59W	0-15	-
PM	245	0	21-08N 58-41W	6-40	
5 Feb AM	137	0	21-35N 59-35W	5-15	
PM	155	1	21-17N 58-25W	6-30	



Ted - these are for the locality records  
for the dates and times indicated for our  
sightings at sea. Thanks

4 Feb. 1963

	L LOCALITY	λ
1200	21° 17' N	157° 57' W
1300	21° 12' 15" N	158° 02' 30" W
1400	21° 08' 24" N	158° 04' 15" W
1500	21° 08' 30" N	158° 04' 30" W
1600	21° 06' 30" N	158° 14' 28" W
1700	21° 10' 45" N	158° 27' 30" W
1800	21° 14' 50" N	158° 41' 10" W
	21 17	158 30

5 Feb.

0600	21° 35' 20" N	159° 40' W
0700	21° 35' 20" N	159° 37' 30" W
0800	21° 35' N	159° 35' 45" W
0900	21° 35' N	159° 35' 45" W
1000	21° 30.5' N	159° 24.0' W
1100	21° 27' 35" N	159° 14.0' W
1200	21° 26' N	159° 03' W
1300	21° 23' N	158° 51' W
1400	21° 20' 15" N	158° 38' W
1500	21° 17' 20" N	158° 24' 50" W
1600	21° 14' 40" N	158° 11' 40" W
1700	21° 13.5' N	<del>158°</del> 59' W
1800	21° 15' N	157° 55' W



TIME	LOCALITY	SPECIES	REMARKS
2/4/63 1145		Brown Booby	LEAVING PEARL HARBOR SAW 2 BROWN BOOBIES ONE FLYING OVER HARBOR, ONE SITTING ON BOUY
1210		BLACK FOOT ALB.	FLW PAST SHIP, CIRCLED (?)
1215		"	"
1218		<del>underwater</del>	lit on water off port side
1227		Brown Booby	
1228		Frigate bird	
1245		B-f. albatros	approached ship, did not follow
1305		B.f. albatros	2 now following
"		jaeger	3 since 12:50
1320		B.f. albatros jaeger	1 } same as above 3 }
1321		jaeger	4 now
1322		2 more JAEGERs ARRIVED	
1330		<del>TOTAL OF</del> JAEGER	Total of 8 jaegers present - as <del>the</del> ship slowed down they <u>hit on water</u>
1332		B.f. albatros	2 now present
1340		JAEGER	Shot 1 looked up + picked him up. All then hovered over dead one
1345		JAEGER	Shot another
1350			all left after 2nd one was shot. total present lost count 11 jaeger + 3 b. ALBATROS approached.
1351		Sauyan albatros	
1355		terns (?)	port ship headed toward land too far to identify
1405		jaeger	came into view in back of ship
1410		jaeger	7 after ship's garbage
1510		jaeger	3 , after garbage

26



<u>Time</u>	<u>locality</u>	<u>Species</u>	<u>Remarks</u>
1520		sooty terns	large flock (200?) diving
1613		u/c	large, blk + white. crossed stern.
1645		Pomarine jaeger,	followed ship astern.
1645		b-f. albatross,	" " "
1735		Pomarine jaeger,	" " "
1735		b-f. albatross	" " "
1805		Sooty tern	
1840		b-f. alba.	Following ship
0645		b-f. alba.	Following ship
0715		"	"
0730		6 b.f.	Following ship, set astern to feed on garbage
0745		Laysan	passed ship 100 yds on st. bd. headed NW
0750		sooty tern	passed ship 150 yds. on st. bd. headed NW
0800		Laysan	200 yds. off port
0800		2 whales	1 mi. off port - 2 spouts
0805		2 sooty terns	passed 200 yds. off stern heading N
0826		2 sooty terns	passed stern headed NE
0830		7 b.f. ALB.	threw garbage over board - all lit + ate tied loose to line



Feb 5, 1963

Time	Locality	Species	Remarks
0840		2 Sooty Terns	flying NW
0900		B.F. Alb.	Laysan Alb. flew by caught 1 on hook + line (let go at 0910) (♀?) (BAND #30001)
0925		5 Sooty terns	flew by on port side headed NW
0935		white-tailed Tropic bird	off port
0936		appear 30 Sooty terns	some dark colored - going W
0945		1 Sooty tern	off stern
0949		flock approx. 20 Sooty terns	off <del>stern</del> starboard, approx 300 yds
0949		LAYSAN Alb.	off port, approx 300 yds
0952		3+2 Sooty terns	off starboard - feeding
0956		Frigate bird	PAST off stern
0959		Laysan	off stern, then passed port
1045		B-F alb.	8 sitting together on water. none following. no known garbage spoils.
1047		3 sooties	crossed astern.
1108		3 sooties	heading Northeast
1128		Tropic bird 1 red-tailed	directly over ship - heading East
1156		40 terns(?)	headed West
1156		2 boobies	diving - with above terns
1207		3 sooty terns	passed on port side, feeding
1250		1 porpoise	took water completely, off port side.
1345		1 ruddy turnstone	approached from S, circled ship, headed N,
1400		3 sooty terns	passed to port



5 Feb 1963

1422	one Sooty tern	crossed bow from N to S
1432	sooty tern	30+ moving 1 mile off port side from E to W
1435	sooty tern	one moving NE of port
1437	sooty tern	2 moving from E to W off port
1438	sooty tern	10+ " " " " "
1439	sooty tern	40-50 moving E to W off starbd.
1441	sooty tern	25+ moving NE to SW off bow
1513	sooty tern	one leading E, high
1518	jaeger ?	came up astern + passed port
1519	sooty tern	4+ passed on port from E to W
1600	sooty tern	one across bow from SE to NW
1621	jaeger	passed on starboard from E to W
1636	sooty tern	passed on port side - going NW
1649	2 sooty terns	crossed bow from S to N
1652	1 sooty tern	flying NE
1652	jaeger	passed starboard E to W
1703	1 sooty tern	NE of bow
1705	1 sooty tern	NE of bow
1707	jaeger	passed port + crossed bow
1708	2 jaeger	these two joined other jaeger
1711	2 sooty terns?	crossed bow on horizon going S.
1714	1 jaeger	passed on starboard - headed E.
1715	1 jaeger	" " " " " lit on water



1721  
1722  
1733  
1737  
1742  
1749  
1805  
1815  
1820  
1825

2 jaegers  
3 Sooties  
2 jaegers  
2 Sooty terns  
4 jaegers  
6 jaegers  
jaeger  
7 jaegers  
jaeger  
jaeger

total of 4 now  
jaeger chasing today then one was  
passed on port headed E.  
off port  
off port -  
passed off starboard - lit on water in  
6 off starboard, one on water  
passed 1 mile to starboard.  
passed to starboard  
darkness



79, 6 5 Feb

Periodic count of black-footed albatrosses.

5 Feb 1963

13:15 - 4  
13:30 - 3  
13:45 - 5 6 at garbage  
14:00 - 4  
14:15 - 3  
14:30 - 4  
14:45 - 7  
15:00 - 4  
15:15 - 4  
15:30 - 3  
15:45 - 5  
16:00 - 5  
16:15 - 5  
16:30 - 2  
16:45 - 8  
17:00 - 6  
17:15 - 6  
17:30 - 5  
17:45 - 2  
18:00 - 5  
18:15 - 8  
18:30 - 2  
18:45 - 3 about 2 mi  
19:00 -  
19:15 -



7 Feb.

LOCALITY

1600

Pier B-13 Pearl Harbor Naval Shipyard

1700

21° 18' N 157° 58' W

1800

21° 12' N 157° 45' W

1900

21° 13.3' N 157° 52' W

2000

21° 14.3' N 158° 04.5' W

8 Feb.

0600

21° 40.5' N 160° 06.3' W

0700

21° 42.5' N 160° 15.8' W

0800

21° 44.8' N 160° 25' W

0900

21° 48' N 160° 36' W

1000

21° ~~50~~<sup>53.2</sup>' N 160° 52.6' W

1100

21° 56' N 161° 03' W

1200

22° 00' N 161° 11' W

1300

22° 05' N 161° 21' W

1400

22° 08.8' N 161° 33' W

1500

22° 12.1' N 161° 44.5' W

1600

22° 16.0' N 161° 56.0' W

1700

22° 19.5' N 162° 08.0' W

1800

22° 23.1' N 162° 19.1' W

1900

22° 27' N 162° ~~26~~<sup>31</sup>' W



79.7 7 Feb

2/7/63  
1605

left Beach 13

1650

2 Stilts

at mouth of P. Harbor on sand bar

1650

3 sandshins

" "

1657

boom 3

B.P. albatross

noticed albatross following ship we are <sup>meeting</sup>

1709

B.P. 6 albatross

following ship which passed our starboard

1712

jaegers

appeared off back of ship

1719

6 jaegers

off starboard 5 ~~on~~ horizon 1 up close <sup>lit.</sup>

1721

b.f. alb.

off stern

1722

jaeger

came from land

1727

2 alb. 6 jaegers

total count around ship

1739

9 B.P. Alb.

off stern

1745

11 jaegers

flying around ship - some on the water

1755

3 sooty terns

flying east

1800

1 red-footed booby

flying east, low over the water

1810

1 red-footed booby

going toward land

1816

1 red-footed booby

all around ship fly ahead of ship

1816

30+ jaegers

and stop on water + watch ship go by

1821

1 red-footed booby

flying east.

1823

21 sooty terns

flying east - off port side

1828

jaegers 30+ 3 alb.

in back of ship - 3 miles off shore



2/7/63			
1838	4 sooty terns	20	flying east.
1839	jaegers		following ship.
1846	4 jaegers		following ship - almost dark - sundown
2010	terms ?		flew over from W to E heard calls
8 Feb.			
0630	bf albatross		Nihou to starboard
0710	Laysan		2 following astern
0712	jaeger?		passed on port
0726	sooty ? hooded ?		passed toward NE
0732	3 sooty		3 passed starboard going SW
0735	1 sooty		going west
0738	hann body		going East
0740	sooty tern		7 going W
0745	Frigate		2 flying high, circling
0750	Brown booby		3 flying E toward Nihou
0755	Brown booby		2 flying E toward Nihou
0805	sooty tern		2 flying E toward Nihou
0815	bf albatross		5 now following ship
0830	Laysan		off port side
0832	Laysan		2 off starboard
0915	70.f albatross		6 now following ship - 1 way in front
0918	Laysan all.		off starboard



8 Feb cont.

0937

6. F. Alb.  
grey backed  
tern (?)

only 3 following ship

0945

3 crossed bow of ship

0948

whale

off starboard 100 yds - blew +

1005

whale

directly in front of bow - blew <sup>opp 1000 yds</sup>

1007

"

passed on port 100 yds - broke water

1010

Laysan

off starboard - flying east

1019

3 tern like  
birds

flying east

1020

whale

off bow

1028

2 shearwaters (?)

off port - headed SW

1045

Laysan

appear to be off bow on horizon

1047

2 Laysan

following ship

1109

11 bf alb.

1110

2 Sooty terns

headed NE - off starboard side

1120

10 bf / Laysan

following ship

1155

20+ Sooty Tern - 20+  
red footed booby 1  
~~frigatebird 1~~  
fairy tern 1

} in flock

1238

8 b.f.

milk carton thrown over - 8 lit.

1245

~~2 fairy~~  
20+ fairy T

flew across bow headed N

1300

1 red footed Booby

in flock going SW

1301

1 noddy

crossed Bow going W

1305

1 grey back Tern

off bow going W

1307

1 R.F. Booby

off starboard bow



77. 10 8 Feb.

48

8 Feb cont

1310	Laysan	off starboard stern
1410	2 boobies (r & s?) tern 2st (Sooty?)	in flock - off port bow flying S
1415	Laysan?	off starboard side of stern going NW
1423	Laysan	off stern - passed ship on starboard
1425	Brown Booby ①	crossed bow from SW to NE
1427	2 + 1 Sooty tern	off starboard - E to West
1430	Fairy tern ①	came up port side cross bow headed NW
1434	4 fairy tern	crossed stern (way behind ship) heading NW
1450	9 albatross	these 9 were in the air on water + passed on starboard side according to Mr. Enoch
1503		wrote paper thrown overboard - 4 albatross flew over it but didn't land.
1524	Laysan ALB	off stern 1/2 way between our ship + one behind
1531	Fairy tern	off Starboard N
1545	Laysan alb	off stern
1600	2 " "	Still with us - flew by port side very close
1615	3 fairy tern 1 sooty	off starboard - SE → NW
1626	Red footed Booby	off starboard - W → E
1639	1 fairy tern	crossed bow going N
1640	2 Laysan	Same as above.
1700	b.f. ALB.	hit mast + dropped out bridge - held down, landed (3000 ft) + marked yellow also got mallophaga from wing + head



Feb 8 cont

- 1735 2 brown boobies flying NE in Rain
- 1749 1 fairy tern off starboard side
- 1755 2 pairs off bow headed NE
- 1758 1 " " " "
- 1800 1 " " " "
- 1805 1 " " " "
- 1815 1 fairy tern off stern → N  
2 sooty
- 1828 1 sooty off bow → N
- 1834 4 small white birds sub. Petrels, left bow, flitting around
- 1840



77, 12, 8 Feb

# Periodic Count of B-F. Albatrosses -

Feb. 8, 1963

Feb 8

1000	5 all. (2 B)	
1015	1 bf / 1 layer	Layer on water
1030	4	
1045	6 bf / 2 layers	following ship / appears to be 2 layers on horizon
1100	6 bf	
1115	5 bf / layer	at 1109 there were <del>as many as</del> 11
1130	9 bf	
1200	3 bf	
1245	2 bf	at 1238 total of 8 bf - galang dump
1300	3 bf	
1315	3 bf	
1330	5 bf	
1345	2 bf	
1400	3 bf	
1415	8 bf / 1 layer	<sup>some</sup> bf on water - possible Layer on horizon
1430	5 bf	
1445	7 bf	
1500	6 bf	
1515	4 bf	Another ship approaching our starboard stern, at least 4 albatross behind it
1530	4 bf all in water	4 all. still behind other ship which has now passed our stern
1545	2 bf / 1 layer	



8 Feb cont

1600

5<sup>5</sup>bf/2 Laysan — Laysan flew by on Pal side very close

1615

5 b f

1630

7 b f  
1 Laysan

1645

9 b f  
2 Laysan

1700

12 b f  
1 Laysan dumped garbage

1800

6 f scattered to

1825

10 b f  
1 Laysan

1840

11 b f

1900

4 following still



9 FEB 1963

0755	2 sooty terns	crossed bow	N → S
0810	6 Sooty T. (one on horizon starboard bow)	" "	N → S
0813	35 Terns	" "	N → S
0815	1 S.T.	" "	N → S
0820	2 ST 1 fairy T.	S.T. crossed bow / FT passed starboard	N → S
0823	2 grey back T.	E → W - rain beginning	
0827	Laysan	off starboard - in rain	
0918	Laysan	passed starboard - no rain	
0936	1 sooty tern	- Starboard bow → N	
1002	1 sooty	crossed bow → N	
1010	3 grey back Tern	- crossed bow	N → S
1011	Laysan	Starboard stern	
1025	wedgetailed Shearwater	crossed bow	S → NE
1101	2 Laysan	one way out front & 1 way in back	
1125	Whale	off starboard bow	500 yds
1126	Laysan	- off stern	
1135	2 A.P. 1 Sooty 15-80 Orchi 10% time fury		
1204	Laysan	also approx 25 bt.	
1253	Laysan	Passed from way in front to back	
1402	grey back tern	2 passed across bow headed SW	
1415	Laysan	Off starboard	S → N



9 Feb cont.

- 1418 1 Sooty Tern - passed Starboard
- 1425 Red footed Booby - off Starboard bow 1600 yds
- 1434 2 Sooty tern off port side
- 1440 1 Sooty tern passed starboard N → S
- 1453 1 Laysan 300 yds off Starboard
- 1454 2 Sooty tern off Starboard → N
- 1456 Frigate " "
- 1458 4 Sooty tern crossed bow E → W in 2 pairs
- 1508 2 Sooty terns " " E → W
- 1514 1 Laysan Passed starboard
- 1540 washed Booby 1 passed starboard
- 1540 porpoise 5 Bottlenose? moving starboard
- 1615 petrel? off bow
- 1621 6 Sooty tern off ~~bow~~ starboard bow 1000 yds
- 1825 2 boobies off stern
- 1840 33 b. Alb - off stern most in water - garbage dump



95. 16 9 Feb.

9 Feb. 1963

0650	0 bf.	
0715	2 b.f. ALB.	
0725	4 b. f. ALB.	
0730	4	
0745	6 b.f.	3 very close + 3 way back
0800	10 b.f.	6 up close 4 way back
0815		all way back on water (except 1) <sup>garbage</sup> dumped
0900	5 <del>4</del> b.f.	
0915	7 b.f.	6 up close - 1 way back
0950	9 b.f.	Following ship (1 Laysan 1011)
1030	7 b.f.	
1100	5 b.f. / 1 Laysan	clear, very windy
1115	7	
1200	25 b.f.	1 Laysan
1215	24	ship passed on out part → E
1300	6	
1345	15	
1350	18 b.f.	
1415	21 b.f. / 1 Laysan	
1433	21 b.f.	
1840	33 b.f.	dumped garbage



9 Feb.

LOCALITY

	23° 14.5' N	164° 59' W
0700	<del>22° 58' N</del>	<del>164° 28' W</del>
	23° 16.5' N	165° 11.5' W
0800	<del>23° 00' N</del>	<del>164° 56' W</del>
	23° 18.5' N	165° 23.5' W
0900	<del>23° 02.8' N</del>	<del>165° 18' W</del>
	23° 20' N	165° 35.8' W
1000	<del>23° 05.5' N</del>	<del>165° 35' W</del>
	23° 22' N	165° 48' W
1100	<del>23° 13.0' N</del>	<del>165° 55' W</del>
	23° 23.5' N	165° 58' W
1200		
1300	23° 26' N	166° 12' W
1400	23° 33.5' N	166° 19' W
1500	23° 41' N	166° 19' W
1600	23° 49' N	166° 19' W
1700	23° 49.5' N	166° 22' W
1800	23° 50' N	166° 25' W
1900	23° 50.5' N	166° 29' W

10 Feb.

0800	24° 10.0' N	167° 58.1' W
0900	24° 11.5' N	168° 06' W
1000	24° 13.5' N	168° 15' W
1100	24° 15.5' N	168° 24.5' W
1200	24° 17.5' N	168° 34' W
1300	24° 20' N	168° 43'
1400	24° 21.5' N	168° 48'



10 Feb. cont'd.

LOCALITY

1500

24° 23.5' N

169° 02' W

1600

24° 25.5' N

169° 12' W

1700

24° 27.5' N

169° 21' W

1800

24° 29.5' N

169° 30.5' W

11 Feb.

0700

25° 25' N

171° 49' W

0800

25° 34' N

171° 53' W

0900

25° 44' N

171° 53.5' W

1000

25° 56' N

171° 54.5' W

1100

26° 06.5' N

172° 02' W

1200

26° 16.0' N

172° 07' W

1300

26° 00' N

171° 53' W

1400

25° 51' N

171° 47' W



1439

L.T. 063.5

42



10 Feb. 1917

0830	6.5 allatrasse	est. 24
0830	Laysan	1 passed ship
0845	Laysan	3 around ship
0845	13 b.f. 1 petrel	off starboard - white at base of tail
0910	10. petrel?	off starboard
0915	Laysan	3 off starboard
0925	gray back tern	3 crossed bow headed N
0947	2 sooty tern	off starboard → NE
0955	1 wedgetail	
0950	<del>shearwater?</del>	
0957	<del>whale</del>	<del>off bow</del>
1000	Laysan 4 b.f. 3 tern	
1004	whale	off bow
1016	several whales	passed off starboard 300 yds. (small)
1020	small dark bird	crossed bow 300 yds N → S
1030	12 b.f. Laysan	
1040	2 gray b. tern	crossing bow S → N
1055	1 G. b. tern	" " "
1100	15 allatrasse	
1115	16 "	
1115	2 gray back	- starboard
"	1 sooty	- "
1130	17 allatrasse	
1145	25 "	



10 Feb 1971 18

1715	24 albatross (2 Laysan)	
1225		Dumped garbage all albatross lit
1228	1 frigate	crossed lower → N
1230	3 b.f.	
1245	12 b.f.	
1300	18 b.f.	
1315	13 b.f.	
1320	1 Bonin Petrel	off starboard bow E → W
1330	8 b.f. 1 Laysan	
1345	9 b.f.	
1358	Bonin Petrel	directly over ridge
1400	5 b.f.	
	4 b.f.	
1415	1 Laysan	
1430	11 b.f. 1 Laysan	
1445	7 b.f. 7 Laysan	
1500	11 b.f. 1 Laysan	
1515	2 b.f. 1 Laysan	
1530	4 b.f. 1 Laysan	
1545	7 b.f. 1 Laysan	
1600	4 b.f.	The ship's clock was turned back on hour here
1606	3 Laysan	
1615	7 b.f.	
1630	5 b.f.	
1637	1 Laysan	off starboard 500 yds



Feb 10 1979

- 1642 1 bovin petrel? off bow 300 yds
- 1645 8 b.f. / 1 Laysan
- 1700 12 b.f. 1 Laysan 2-3 Laysan's earlier
- 1715 13 b.f. also 2 Laysan
- 1718 1 bovin petrel - passed starboard NW → SE
- we changed our watches at this time - ship's clock changed at 1600
- 1629 1 bovin Petrel - off stern
- 1630 2 b.f. 2 Laysan - others must be on water
- 1634 whale off port - 200 yds
- 1645 19 b.f. / 1 Laysan - Laysan may track
- 1700 8 b.f. garbage dumped 1655
- 1715 11 b.f. / 1 Laysan
- 1716 1 bovin petrel
- 1730 15 b.f. / 3 Laysan
- 1745 21 b.f. / 1 Laysan



Feb 11

- 0700 25 bP + 1 Laysan
- 0730 15 Laysan estimate 50+ b.P. - can't count  
+ ~~shearwater~~ 1 Bonin Is. Pet.
- 0734 2 masked boobies off port - very close
- 0737 60+ b.P.
- 0738 2 ~~shearwater~~ Bonin Is. Petrel  
6+ ~~shearwater~~ 6+ Bonin Is. Pet.
- 0739 ~~shearwater~~ - out in front of ship - gliding over water
- 0750 ~~shearwater~~ 20+ Bonin Is. Pet.  
~~shearwater~~ - many gliding over water
- 0755 red tailed tropic bird - warning high over ship.
- 0800 100+ bP + Laysan - also many Bonin Is. Petrels on  
for as one can see on water.
- 0830 ~~immature~~ <sup>immature</sup> booby - shot but missed!
- 0842 masked booby - crossed bow
- 0852 masked booby off bow
- 0859 5 boobies (?) off starboard bow
- 0901 red footed booby off port
- 0904 frigate birds - high (very) over ship
- 0930 masked booby - very close
- 0930 100+ all.
- 0951 3 masked boobies - off starboard bow
- 0953 1 red-footed booby - off starboard
- 1020 1 red-footed booby - starboard
- 1044 1 red-footed booby
- 1050 9 red footed - 1 dark immature + 1 off port bow



Pg. 21

11 Feb.

1145	1 porpoise	
1205	bf. albatross	num. of 60 following ship
1205	Laysan	3 following ship
1210	Laysan	num. 20 around ship
1222	BI petrel	2 passed on port headed NW
1234	BI petrel	1 passed port headed NW
1252	BI petrel	3 moving 100 yds to port SE came
1300	BI petrel	one following to starb. headed SE
1305	BF	17 around ship
1305	Laysan	10 around ship
1307	shearwater	7 passed across bow headed W
1315	BI petrel red foot booby	3 moved across stern headed NE one stern
1317		
1330		now about 6 mi NW of Laysan
1340	BF booby	passed stern
1347	BF petrel	several around ship now
1348		frigate coming under way off starb.





2/4/63

5/4 m

Locality L	Locality λ	Time	Species	Remarks
Lv. Pearl Harbor		1145	Brown Booby	1 flying over harbor; 1 sitting on bouy.
21° 17' N	157° 57' W	1200		
		1210	B-f. Alb.	Flew past ship, circled (?)
		1215	" "	
		1218	Jaeger	Lit on water off port side, 2 sitting stbrd side.
		1227	Brown Booby	
		1228	Frigate Bird	
		1245	B-f. Albatross	Approached ship, did not follow
21° 12' 15" N	158° 02' 30" W	1300		
		1305	B-f. Albatross	2 now following
		1305	Jaeger	3 since 12:50
		1320	B-f. Albatross	1 } same as above 3 }
			Jaeger	
		1321	"	4 now
		1322	"	2 more arrived
		1330	"	Total of 8 present, as ship slowed down they lit on water
		1332	B-f. Albatross	2 now present
		1340	Jaeger	Shot 1, backed up and picked him up. All others hovered over dead one.
		1345	"	Shot another
		1350		All left after 2nd one was shot. Total present last count: 11 Jaeger, 3 B-f. Albatrosses
		1351	Laysan Alb.	Approached
		1355	Terns (?)	Past ship headed toward land, too far to identify
21° 08' 24" N	158° 04' 15" W	1400		
		1405	Jaeger	2 came into view in back of ship
		1410	"	1 after ship's garbage
21° 08' 30" N	158° 04' 30" W	1500		
		1510	Jaeger	3 after garbage
		1520	Sooty Terns	Large flock (200 ?) diving
21° 06' 30" N	158° 14' 28" W	1600		
		1613	U/K	Large, black and white, crossed stern
		1645	Pomarine Jaeg.	Followed ship astern
21° 10' 45" N	158° 27' 30" W	1645	B-f. Albatross	" " "
		1735	Pomarine Jaeg.	" " "
21° 14' 50" N	158° 41' 10" W	1735	B-f. Albatross	" " "
		1805	Sooty Tern	
		1840	B-f. Albatross	Following ship

ship started  
and then

2  
11  
9  
13  
131



4 February 1963

## Sea Records

Time	Locality	Species	Remarks
1145		brown booby	leaving Pearl Harbor, saw one flying, one sitting on buoy
1210		bf albatross	flew past ship, circled (?)
1215		bf albatross	following ship
1218		jaeger	flew by port side, lit on water
1220	<i>See entry identified Here a remnant in notes (P. 11)</i>	jaeger	2 sitting on water, starboard
1227	21° 17.9' N 157° 57.4' W	brown booby	flying
1228	"	frigate	flying
1245		bf albatross	approached ship, didn't follow
1305		bf albatross	2 now following
1305		jaeger	3 since 1250
1320		bf albatross	1 following
1320		jaeger	3 following
1321		jaeger	4 now following
1322		jaeger	6 now following
1330	21° 03.9' N 158° 07.4' W	jaeger	8 now following, as ship slowed down they lit on water
1332		bf albatross	2 now following
1340		jaeger	shot 1, backed up to pick it up, others hovered over dead one
1345		jaeger	shot 2nd one
1350		jaeger	all left after 2nd one shot, total last count was 11
1350		bf albatross	all left after 2nd bird killed, total last count was 3
1351		laysan	approached ship but did not come close
1355		terns (?)	passed ship headed toward land, too far to identify



4 February 1963 continued

1405		jaeger	2 now following far off stern
1410		jaeger	7 after ship's garbage
1510	21° 12' N 158° 20.8' N	jaeger	3 after ship's garbage
1520		sooty tern	large flock (200), diving
1613		?	large, black and white, crossed astern
1645		jaeger	following astern
1645		bf albatross	following astern
1735	21° 20.3' N 158° 45' W	jaeger	following astern
1735		bf albatross	following astern
1805		sooty tern	
1840		bf albatross	following ship astern

No watch maintained this night, all field party members too sick to maintain the watch.



5 February 1963

Sea Records

Time	Locality	Species	Remarks
0645	21° 34.6' N 159° 30' W	bf albatross	following ship
0715		bf albatross	following ship
0730	↑ adrift ↓	bf albatross	6 following ship, lit stern to feed on garbage
0745		laysan	passed ship 100 yds. starboard
0750		sooty tern	passed ship 150 yds. starboard, headed NW
0800		laysan	200 yds. off port
0800		whale	2 unident. 1 mile off port side
0805		sooty tern	2 passed 200 yds. off stern, heading N
0826		sooty tern	2 passed stern, heading NE
0830		bf albatross	7 lit stern for ship's garbage; ran out hook and line with bacon
0840		sooty tern	flying NW
0900		laysan	passed ship
0900	bf albatross	caught one on fish line, USFWS No. 30001 (♀?), breast marked with yellow paint, released 0910	
0925	21° 30' N 159° 30' W	sooty tern	5 passed on port side, headed NW
0935		wt tropic bird	off port side
0936		sooty tern	est. 30, some appear darker, going W
0945		sooty tern	one off stern
0949		sooty tern	est. 20, off starboard, est. 300 yds.
0949		laysan	off port side, est. 300 yds.
0952		sooty tern	3 plus 2 feeding off starboard
0956		frigate	passed off stern
0959		laysan	off stern, then passed port
1045		bf albatross	8 sitting together on water, none following



5 February 1963 continued

1047		sooty tern	3 crossed astern
1108		sooty tern	3 headed NE
1128	21° 26' N 159° 03' W	rt tropic bird	flew directly over ship, headed E
1156		terns (?)	about 40, headed W
1156		booby sp. ?	with above terns, diving
1207		sooty tern	3 passed port side, feeding
1250		porpoise	broke water completely, about 1 mile off port side
1345	21° 21.8' N 158° 44.2' W	turnstone	approached from S, circled ship, headed N
1400		sooty tern	3 passed to port
1422		gb tern	one crossed bow from N to S
1432		sooty tern	est. 30 moving 1 mile off port side from E to W
1435		sooty tern	one moving NE of port side
1437		sooty tern	2 moving from E to W off port
1438		sooty tern	est. 10 moving from E to W off port
1439		sooty tern	40-50 moving E to W off starboard
1441		sooty tern	25+ moving NE to SW off bow
1513	21° 18' N 158° 28.6' W	sooty tern	one heading E, high
1518		jaeger ?	came up astern and passed port
1519		sooty tern	4 passed on port from E to W
1600		sooty tern	one across bow from SE to NW
1621		jaeger	passed on starboard from E to W
1636		sooty tern	passed on port, going NW
1649		sooty tern	2 crossed bow from S to N
1652		sooty tern	one flying NE
1652		jaeger	passed starboard from E to W
1703		sooty tern	one NE of bow



5 February 1963 continued

1705	sooty tern	one NE of bow
1707	jaeger	passed port and crossed bow
1708	jaeger	2 joined one above
1711	sooty tern ?	crossed bow on horizon headed S
1714	jaeger	passed starboard, headed E
1715	jaeger	passed starboard, headed E, lit on water
1721	jaeger	total of 4 now
1722	sooty tern	jaeger chasing one sooty, then one sooty dove on the jaeger, off starboard
1733	jaeger	2 passed on port headed E
1737	sooty tern	off port side
1742	jaeger	4 off port side
1749	jaeger	6 passed off starboard, lit on water in a bunch
1805	jaeger	6 off starboard, one on water
1815	jaeger	7 passed one mile to starboard
1820	jaeger	passed to starboard headed for land
1830	jaeger	passed to starboard headed for land
1840	dark now, no lights put on, ship reached Pearl about <sup>1930</sup> 2000 hours.	

*returned because of burned out bearing  
(winty field note) etc.*



Periodic count of black-footed albatross, 5 Feb. 1963

1315	4	1515	4	1715	6
1330	3	1530	3	1730	5
1345	5	1545	5	1745	2
1400	4	1600	5	1800	5
1415	3	1615	5	1815	8
1430	4	1630	2	1830	2
1445	7	1645	8	1845	3
1500	4	1700	6	1900	dark



2/5/63

Locality L	Locality $\lambda$	Time	Species	Remarks
21° 35' 20" N	159° 40' W	0600		
		0645	B-f. Albatross	Following ship
21° 35' 20" N	159° 37' 30" W	0700	" "	" "
		0715	" "	" "
		0730	" "	6 following ship, set astern to feed on garbage
		0750	Sooty Tern	Passed ship 150 yds on stbd. headed NW
21° 35' N	159° <del>37</del> ' 45" W	0800	Laysan Alb.	200 yds. off port
	35'	0800	Whales	2; 1 miles off port; 2 spouts
		0805	Sooty Tern	2; passed 200 yds. off stern heading N.
		0826	Sooty Terns	2; passed stern headed NE
		0830	B-f. Albatross	7; threw garbage over board, all lit and ate tied bacon to line
		0840	Sooty Tern	2; flying NW
21° 35' N	159° 35' 45" W	0900	B-f. Albatross	Caught 1 on hook and line (let go at 0910), (Band no 30001) (♀?)
		0900	Laysan Alb.	Flew by
		0925	Sooty Tern	5; flew by on port side headed NW (?)
		0935	Wh-tailed Tropic-Bird	Off port
		0936	Sooty Tern	Approx. 30; some dark colored, going W.
		0945	Sooty Tern	Off Stern
		0949	Sooty tern	Flock approx. 20; off starbrd, approx. 300 yards
		0949	Laysan Alb.	Off port, approx. 300 yds.
		0952	Sooty Tern	3 and 2; off strbd, feeding
		0956	Frigate Bird	Past off stern
		0959	Laysan Alb.	Off stern, then passed port
21° 30.5' N	159° 24' W	1000		
		1045	B-f. Albatross	8 sitting together on water, more following. No known garbage spoils.
		1047	Sooty Tern	3 crossed astern
21° 27' 35" N	159° 14' W	1100		
		1108	Sooty Tern	3 heading NE
		1128	Red-tailed Tropic Bird	Directly over ship, heading East
		1156	Tern (?)	40 headed West
		1156	Boobies	2; diving with above Terns
21° 26' N	159° 03' W	1200		
		1207	Sooty Tern	3 passed on port side, feeding.
		1250	Porpoise	1 broke water completely, off port side.
21° 23' N	158° 51' W	1300		
		1345	Ruddy Turnstone	Approached from S, circled ship, headed N.

0600  
1010



2/5/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
21° 20' 15"	158° <del>24' 50" W</del> 38' W	1400	Sooty Tern	3 passed to port
		1422	Gray-back Tern	1 crossed bow from N to S
		1432	Sooty Tern	30+ moving 1 mile off port side from E-W
		1435	" "	One moving NE of port
		1437	" "	2 moving from E to W off port
		1438	" "	10+ moving from E to W off port
		1439	" "	40-50 moving E to W off strbrd.
21° 17" 20" N	158° 24' 50" W	1441	" "	25+ moving NE to SW off bow
		1500		
		1513	Sooty Tern	1 heading E, high
		1518	Jaeger (?)	Came up astern and passed port
21° 14' 40" N	158° 11' 40" W	1519	Sooty Tern	4+ passed on port from E to W
		1600	" "	1 across bow from SE to NW
		1621	Jaeger	Passed on starboard from E to W
		1636	Sooty Tern	Passed on port side going NW
		1649	Sooty Tern	2 crossed bow from S to N
		1652	Sooty Tern	1 flying NE
21° 13.5' N	157° <del>55' W</del> 59' W	1652	Jaeger	Passed starboard E to W
		1700		
		1703	Sooty Tern	NE of bow
		1705	" "	" " "
		1707	Jaeger	Passed port and crossed bow
		1708	"	2 joined the other Jaeger
		1711	Sooty Tern (?)	2 crossed bow on horizon going S
		1714	Jaeger	Passed on starboard headed E
		1715	"	" " " " " ", lit on water
		1721	"	2; total of 4 now
		1722	Sooty Tern	3; Jaeger chasing Sooty then vice-versa
		1733	Jaeger	Passed on port headed E; 2
		1737	Sooty Tern	2 off port
		1742	Jaeger	4 off port
1749	Jaeger	6 posted off starboard-lit on water in bunch		
21° 15' N	157° 55' W	1800		
		1805	Jaeger	6 off stboard, 1 on water
		1815	Jaeger ?	7 passed 1 mile to starboard
		1820	"	Passed to stbrd.
		1830	"	" " " darkness



PERIODIC COUNT OF BLACK-FOOTED ALBATROSSES - Feb. 5, 1963

1300		$21^{\circ} 23' N$	$158^{\circ} 51' W$
1315	4		
1330	3		
1345	5 - 6 at garbage	$21^{\circ} 20' 15'' N$	$158^{\circ} 38' W$
1400	4		
1415	3		
1430	4		
1445	7	$21^{\circ} 17' 20'' N$	$158^{\circ} 24' 50'' W$
1500	4		
1515	4		
1530	3		
1545	5	$21^{\circ} 14' 40'' N$	$158^{\circ} 11' 40'' W$
1600	5		
1615	5		
1630	2		
1645	8	$21^{\circ} 13.5' N$	$157^{\circ} 59' W$
1700	6		
1715	6		
1730	5		
1745	2	$21^{\circ} 15' N$	$157^{\circ} 55' W$
1800	5		
1815	8		
1830	2		
1845	3 - almost dark		



2/7/63

Locality L	Locality	Time	Species	Remarks
Pier B-13 - Pearl Harbor		1600		
Left Pier 13		1650	Stilts	2 at mouth of P. Harbor on sandbar
		1650	Sanderlings	2 " " " " " " " "
Bouy 3		1657	B-f. Albatross	Noticed following ship we are meeting
21 18'N	157 58'W	1700		
		1709	B-f. Albatross	6 following ship which passed our stbrd.
		1712	Jaeger	2 appeared off back of ship
		1719	Jaeger	Off stbrd, 5 on horizon, 1 up close, lit.
		1721	B-f. Albatross	Off stern
		1722	Jaeger	Came from land
		1727	"	6; total count around ship
		1727	B-f. Albatross	2; total count around ship
		1739	B-f. Albatross	9 off stern
		1745	Jaegers	11; flying around ship, some on water
		1755	Sooty Tern	3 flying East
21 12'N	157 45'W	1800	Red-footed Bby.	1 flying east, low over the water.
		1810	" " "	
		1816	" " "	Going toward land
		1816	Jaeger	30+ all around ship, fly ahead of ship and stop on water and watch ship go by
		1821	Red-foot. Booby	Flying East.
		1823	Sooty Tern	21 flying east, off port side
		1828	Jaeger	30 + in back of ship, 3 miles off shore.
		1828	Albatross	3 " " " " " " " "
		1838	Sooty Tern	4 flying east
		1839	Jaeger	Approx. 20 + following ship
		1846	"	4 following ship, almost dark, sundown
21 13.3'N	157 52'W	1900		
21 14.3'N	158 04.5'W	2000		
		2010	Terns(?)	Flew over from W to E, heard calls

1700  
1440



2/8/63

Locality L	Locality $\lambda$	Time	Species	Remarks
21° 40.5' N	160° 06.3' W	0600		
21° 42.5' N	160° 15.8' W	0630	B-f. Albatross	Nihoa to starboard; 2 following ship
		0700		
		0710	Laysan Albatross	Passed on port
		0712	Jaeger (?)	Passed toward NE
		0726	Sooty (?)	3 passed starboard going SW
		0732	Sooty	3 going west
		0735	"	1 going east
		0738	Brown Booby	
		0740	Sooty Tern	7 going W
		0745	Frigate	2 flying high, circling
		0750	Brown Booby	3 flying E toward Nihoa
21° 44.8' N	160° 25' W	0755	" "	2 flying E toward Nihoa
		0800		
		0805	Sooty Tern	2 flying E toward Nihoa
		0815	B-f. Albatross	5 now following ship
		0830	Laysan Alb.	Off port side
21° 48' N	160° 36' W	0832	" "	2 off starboard
		0900		
		0915	B-f. Albatross	6 now following ship - 1 way in front;=7
		0918	Laysan Alb.	Off starboard
		0937	B-f. Albatross	Only 3 following ship
		0945	Grey-backed Tern	(?) 3 crossed bow of ship
		0948	Whale	off starboard 100 yards, blew and broke water
21° 53.2'	160° 52.6' W	1000		
		1005	Whale	Directly in front of bow approx 1000 yards, blue
		1007	"	Passed on port 100 yards - broke water
		1010	Laysan Alb.	Off starboard-flying east
		1019	Tern-like birds	3 flying east
		1020	Whale	Off bow
		1028	Shearwater (?)	2 off port - headed SW
		1045	Laysan Alb.	Appear to be 2 off bow on horizon
21° 56' N	161° 03' W	1047	Laysan Alb.	Following ship
		1100		
		1109	B-f. Albatross	11
		1110	Sooty Tern	2 headed NE, off starboard side
		1120	B-f. Albatross	10 following ship
2200	61 11	1120	Laysan Alb.	1 following ship



2/8/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
22 00'N	161 <del>05</del> <sup>11</sup> W	1150	Sooty Tern	20+ } 1 } in flock 1 }
			Red-footed Booby	
			Fairy Tern	
22 05'N	161 21'W	1200		
		1238	B-f. Albatross	Milk cartons thrown over- 8 lit
		1245	Fairy Tern	2 flew across bow headed N
22 08.8'N	161 33'W	1300	Fairy Tern	20+ } 1 } in flock going SW
			Red-footed Booby	
		1301	Noody	Crossed bow going W
		1305	Grey-bk Tern	Crossed bow going W
		1307	Red-foot. Booby	Off Starboard bow
		1310	Laysan Alb.	Off Starboard stern
		1400		
		1410	Booby (Red-ft.?)	2 } 20+ } in flock - off port bow flying S
			Tern (Sooty?)	
			1415	Laysan (?) Alb.
	1423	Laysan Alb.	Off stern - passed ship on starboard	
	1425	Brown Booby	Crossed bow from SW to NE	
	1427	Sooty Tern	2 and 1; off starboard- E to West	
	1430	Fairy Tern	Came up Port side, crossed bow, headed NW	
	1434	Fairy Tern	Crossed stern (way behind sling) head NW 4	
22 12.1'N	161 44.5'W	1450	Albatross	9 were sitting on water and passed on
		1500		starboard side according to Mr. Epoch
		1503		- Waste paper thrown overboard - 4 flew
				over it but didn't land
		1524	Laysan Alb.	Off Stern 1/2 way between our ship and one behind
22 16.0'N	161 56.0'W	1531	Fairy Tern	Off starboard N
		1545	Laysan Alb.	Off stern
		1600	Laysan Alb.	2 - still with us - flew by port side very close
		1615	Fairy Tern	3 } 1 } Off starboard - SE to NW
			Sooty Tern	
	1626	Red-foot. Booby	Off starboard - W to E	
22 19.5'N	162 08.0'W	1639	Fairy Tern	Crossed bow going N
		1640	Laysan Alb.	2; same ones as above
		1700	B-f. Alb.	Lit mast and dropped onto bridge - held down, banded (30002) and marked yellow also got mallophaga from wing and head



2/8/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
		1735	Brown Booby	2 flying NE in rain
		1749	Fairy Tern	Off starboard side
		1755	Storm Petrel	2 passed off bow headed NE
		1756	Fairy Tern	1 " " " " "
22 23.1'N	162 19.1'W	1800	Storm Petrel	Approx. 20 headed NE
		1805	Noody (?)	Headed NE
		1815	Fairy Tern	1 Off stern heading N
			Sooty Tern	2
		1828	Sooty Tern	9 Off bow heading N
		1834	Small black birds	4 - prob. Petrels, but don't know, flitting over water
22° 27' N	162° 31' W	1900		

0630  
1834  
1200



PERIODIC COUNT OF BLACK-FOOTED ALBATROSSES - Feb. 8, 1963  
AND LAYSAN ALBATROSSES

Time			
1000	5 b-f.	$21^{\circ} 53.2' N$	$160.52.6' W$
1015	1 b-f.		
	1 laysan on water		
1030	4		
1045	6 b-f. following ship		
	2 laysan - appear to be on horizon		
1100	6 b-f.	$21^{\circ} 56' N$	$161^{\circ} 03' W$
1115	5 b-f.		
	1 laysan, at 1109 there were as many as 11 b-f.		
1130	9 b-f.		
1200	3 b-f.	$22^{\circ} 05' N$	$161^{\circ} 41' W$
1245	2 b-f.; at 1238 total of 8 b-f. -garbage dumped		
1300	3 b-f.	$22^{\circ} 05' N$	$161^{\circ} 21' W$
1315	3 b-f.		
1330	5 b-f.		
1345	2 b-f.		
1400	3 b-f.	$22^{\circ} 08.8 N$	$161^{\circ} 33' W$
1415	8 b-f. - some on water		
	1 laysan - possible on horizon off stern		
1430	5 b-f.		
1445	7 b-f.		
1500	6 b-f.	$22^{\circ} 12' N$	$161^{\circ} 56' W$



PERIODIC ALBATROSS COUNT CONT. 2/8/63

1515	4 b-f.	another ship approaching our starboard stern. At least 4 albatrosses following it.		
1530	4 b-f.	all in water; 4 alb. still behind other ship which has now passed our stern		
1545	2 b-f.			
	1 laysan			
1600	5 b-f.	$22^{\circ} 16' N$	$161^{\circ} 56' W$	
	2 laysan	- flew by on port side very close		
1615	5 b-f.			
1630	7 b-f.			
	1 laysan			
1645	9 b-f.			
	2 laysan			
1700	12 b-f.	- dumped garbage	$22^{\circ} 19.5' N$	$162^{\circ} 08' W$
	1 laysan	" "		
1800	6 b-f.		$22^{\circ} 23.1' N$	$162^{\circ} 19.1' W$
1825	10 b-f.			
	1 laysan			
1840	11 b-f.			
1900	4 b-f.		$22^{\circ} 27' N$	$162^{\circ} 31' W$



2/9/63

Locality L	Locality	Time	Species	Remarks
23 14.5'N	164 59'W	0700		
		0755	Sooty Tern	2 crossed bow, N to S
23 16.5'N	165 11.5'W	0800		
		0810	Sooty Tern	6 (on horizon starboard bow) Crossed bow north to south
		0813	" "	3 crossed bow, N to S
		0815	" "	1 crossed bow, N to S
		0820	Sooty Tern	2 " " " " "
		0820	Fairy Tern	1 passed starboard
		0823	Grey-back.Tern	2 E to W, rain beginning
		0827	Laysan Alb.	Off starboard - <sup>in</sup> no rain
23 18.5'N	165 <sup>23.5'W</sup> <del>35.8'W</del>	0900		
		0918	Laysan Alb.	Passed starboard - no rain
		0936	Sooty Tern	1 - starboard bow - going N
23 20'N	165 35.8'W	1000		
		1002	Sooty Tern	1 crossed bow- going N
		1010	Greyback Tern	3 crossed bow, north to south
		1011	Laysan Alb.	Starboard stern
		1025	Wedgetailed Shearwater(?)	Crossed bow, south to NE
23 22'N	165 48'W	1100		
		1101	Laysan Alb.	2; one way out front and 1 way in back



2/9/63 cont.

		1125	Whale	Off starboard bow 500 yards
		1126	Laysan Alb.	Off stern
		1135	Red-foot. Booby	2
		1135	Sootie Tern	15-20
		1135	Fairy Tern	10+
23 23.5'N	165 58'W	1200		
		1204	Laysan Alb. B-f. Alb.	Approx. 25
		1253	Laysan Alb.	Passed from way in front to back
23 33.5'N	166 19'W	1400		
		1402	Grayback Tern	2 passed across bow headed SW
		1415	Laysan	Off starboard S to N
		1418	Sooty Tern	Passed starboard
		1425	Red-foot. Booby	Off starboard bow 1000 yards
		1434	Sooty Tern	2 off port side
		1440	Sooty Tern	Passed starboard N to S
		1453	Laysan	300 yards off starboard
		1454	Sooty Tern	2 off starboard going N
		1456	Frigate	1 off starboard going N
		1458	Sooty Tern	4 crossed bow E to W in 2 pairs
23 41'N	166 19'W	1500		
		1508	Sooty Tern	2 crossed bow E to W
		1514	Laysan Alb.	Passed starboard



2/9/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
		1540	Mask. Booby	1 passed starboard
		1540	Porpoise	5 bottlenose(?) moving starboard
23° 49.5' N	166° 19' W	1600		
	22	1615	Petrel(?)	Off bow
		1621	Sooty Tern	6 off starboard bow 1000 yards
23° 50' N	166° 25' W	1800		
		1825	Boobies	2 off stern
		1840	B-f. Albatross	33 off stern, most in water, garbage dumped



PERIODIC COUNT OF ALBATROSSES - Feb. 9, 1963

Locality L	Locality $\lambda$	Time		
23° 14.5' N	164° 59' W	0700		
		0715	2 B-f.	
		0725	4 B-f.	
		0730	4 B-f.	
23° 16.5' N	165° 11.5' W	0745	6 B-f.	3 very close and 3 way back
		0800	10 B-f.	6 up close, 4 way back
		0815		All way back on water except 1- garbage dumped
23° 18.5' N	165° 35.8' W	0900	5 B-f.	
		0915	7 B-f.	6 up close, 1 way back
23° 20' N	165° 35.8' W	0950	9 B-f.	following ship
		1000		
		1011	1 Laysan	
		1030	7 B-f.	
23° 22' N	165° 48' W	1100	5 B-f.	
				clear, very windy
		1100	2 Laysan	
23° 23.5' N	165° 58' W	1115	7 B-f.	
		1200	25 B-f.	
		1200	1 Laysan	
23° 26' N	166° 12' W	1215	24 B-f.	ship passed on out going E
		1300	6 B-f.	
		1345	15 B-f.	
		1350	18 B-f.	



PERIODIC ALB. COUNT CONT. 2/9/63

Locality L    Locality  $\lambda$     Time

23° 33.5' N    166° 19' W    1400

1415    21 B-f.

1415    1 Laysan

1433    21 B-f.

23° 50' N    166° 25' W    1800

1840    33 B-f. - dumped garbage



2/10/63

Locality L	Locality <sup>λ</sup>	Time	Species	Remarks
24° 10' N	167° 58.1' W	0800		
		0830	B-f. Albatross	Est. 24
		0830	Laysan Alb.	1 passed ship
		0845	L " "	3 around ship
		0845	B-f. Albatross	13 off starboard-
		0845	Petrel	1 off starboard- <u>0. castro</u> white at base of tail
24° 11.5' N	168° <sup>06'</sup> <del>15'</del> W	0900		
		0910	Bonin Is. Petrel(?)	Off Starboard
		0915	Laysan Alb.	2 off starboard
		0925	Gray-back Tern	3 crossed bow headed N
		0947	Sooty Tern	2 off starboard headed NE
		0950	Whale	Off bow
		0955	Wedgetail Shearwater (?)	Off starboard N
		0957	Laysan	3
24° 13.5' N	168° 15' W	1000	B-f. Albatross	4
		1000	Laysan Alb.	3
		1004	Whale	Off bow
		1010	Whale	Several passed off starboard 300 yds-sm.
		1020	Dark bird	Small - crossed bow 300 yds N to S
		1030	B-f. Albatross	12
		1030	Laysan Alb.	1



2/10/63 cont.

Locality L	Locality <sup>λ</sup>	Time	Species	Remarks
		1040	Gray-back Tern	Crossing bow S to N - 2
		1055	" " "	1
24° 15.5' N	168° 24.5' W	1100	Albatross	15
		1115	Albatross	16
		1115	Gray-back Tern	2 starboard
		1115	Sooty	1 starboard
		1130	Albatross	17
		1145	"	25
24° 17.5' N	168° 34' N	1200		
		1215	Albatross	24 (2 Laysan)
		1225		Dumped garbage, all albatross lit
		1228	Fairy Tern	Crossed bow headed N
		1230	B-f. Albatross	3
		1245	" "	12
24° 20' N	168° 43'	1300	" "	18
		1315	" "	13
		1320	Bonin Is. Petrel	Off starboard bow E to W
		1330	Laysan	1
		1330	B-f. Albatross	8
		1345	" "	9
		1358	Bonin Is. Petrel	Directly over bridge



2/10/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
24° 21.5' N	168° 48'	1400	B-f. Albatross	5
		1415	" "	4
		1415	Laysan Alb.	1
		1430	B-f. Albatross	11
		1430	Laysan Alb.	1
		1445	" "	2
		1445	B-f. Albatross	7
24° 23.5' N	169° 02' W	1500	" "	11
		1500	Laysan Alb.	1
		1515	" "	1
		1515	B-f. Albatross	7
		1530	" "	4
		1530	Laysan Alb.	1
		1545	B-f. Albatross	7
24° 25.5' N	169° 12' W	1600	" "	4; the ships clock was turned back on bow here.
		1600	Laysan Alb.	1
		1606	" "	3
		1615	B-f. Albatross	7
		1630	" "	5
		1637	Laysan Alb.	1 off starboard 500 yards
		1642	Bonin Is. Petrel (?)	1 off bow 300 yards
		1645	B-f. Albatross	8
		1645	Laysan Alb.	1



2/10/63 cont.

Locality L	Locality	Time	Species	Remarks
24° 27.5' N	169° 21' W	1700	Laysan Alb.	1 (2 or 3 earlier)
		1700	B-f. Albatross	12
		1715	" "	13
		1715	Laysan Alb.	2
		1718	Bonin Is. Petrel	Passed starboard NW to SE

we changed our watches at this time- ships clock changed at 1600

24° 25.5' N	169° 12' W	1600		
		1629	Bonin Is. Pet.	Off stern
		1630	Laysan Alb.	2
		1630	B-f. Albatross	2 other must be on water
		1634	Whale	Off port 200 yards
		1645	Laysan Alb.	1 way back
		1645	B-f. Albatross	19
24° 27.5' N	169° 21' W	1700	B-f. Albatross	8; garbage dumped 1655
		1715	" "	11
		1715	Laysan Alb.	1
		1716	Bonin Is. Pet.	1
		1730	Laysan Alb.	3
		1730	B-f. Albatrosses	15
		1745	" "	21
		1745	Laysan Alb.	1
24° 29' N	169° 30.5' W	1800		



2/11/63

Locality L	Locality $\lambda$	Time	Species	Remarks
25° 25' N	171° 49' W	0700	B-f. Albatross	25
		0700	Laysan Alb.	1
		0730	" "	15
		0730	B-f. Albatross	Estimate 50 +, couldn't count
		0734	Bonin Is. Pet.	1
		0734	Masked Booby	2 off port, very close
		0737	B-f. Albatross	60 +
		0738	Bonin Is. Pet.	2
		0739	" " "	6+ out in front of ship, gliding over water
		0750	" " "	20+, many gliding over water
		0755	Red-tail. Trop.	Soaring high over ship
25° 34' N	171° 53' W	0800	B-f. Albatross and Laysan and B.I. Petrel	100+ far as one can see on water
		0830	Booby	Immature, shot at but missed
		0842	Mask. Booby	Crossed bow
		0852	" "	Off bow
		0859	Boobies (?)	5, way off starboard bow
25° 44' N	171° 53.5' W	0900		
		0901	R-f. Booby	Off port
		0904	Frigate Bird	High (very) over ship
		0930	Mask. Booby	Very close



2/11/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
0930		0930	Albatross	100+
		0951	Mask. Boobie	Off starboard bow
		0953	R-f. Booby	Off starboard
25° 56' N	171° 54.5' W	1000		
		1020	R-f. Booby	Starboard
		1044	" "	"
		1050	" "	9; 1 dark immature; off port bow
26° 06.5' N	172° 02' W	1100		
		1145	Porpoise	1
26° 16.0' N	172° 07' W	1200		
		1205	B-f. Albatross	Min. of 60 following ship
		1205	Laysan Alb.	3 following ship
		1210	" "	Min. of 20 around ship
		1222	Bonin Is. Pet.	2 passed on port headed NW
		1234	" " "	1 passed port headed NW
		1252	" " "	3 moving 100 yds to port SE same as ship
26° 00' N	171° 52' W	1300	" " "	One following to starbrd headed SE
		1305	B-f. Albatross	17 around ship
		1305	Laysan Alb.	10 around ship
		1307	Shearwater (?)	Passed across bow headed W
		1315	Bonin Is. Pet.	3 moved across stern headed NE



2/11/63

Locality L	Locality $\lambda$	Time	Species	Remarks
		1317	R-f. Booby	1 astern
Now about 6 mi. NNW Laysan		1330		
75 <del>085</del>	148	1340	Rf. Booby	Passed astern
		1347	Bonin Is. Pet.	Several around ship now
		1348	Frigate chasing Booby	off starboard

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3/14/63

Locality L	Locality $\lambda$	Time	Species	Remarks
22° 14'	174° 32'	0900		
		0908	B-f. Albatross	Approaches from S, passed ship, hung in behind
		0923	" "	Disappeared to the E.
		0938	Laysan Alb.	Off starboard
		0945	B-f. Albatross	Off stern
22° 03'	174° 33.5'	1000		
		1012	B-f. Albatross	Disappeared
		1018	" "	Off stern
		1020	" "	2nd bird off stern
		1022	" "	Both blackfoots disappeared
		1032	" "	2 off stern
		1040	" "	Both disappeared to the west
		1045	" "	2 off stern
		1052	" "	Both disappeared to the east
		1055	" "	2 far astern
21° 51'	174° 35'	1100		
		1105	B-f. Albatross	1 disappeared to the east
		1110	" "	2 off stern
		1115	" "	1 of 2 lit astern
112	3.7	1120	" "	Both flying astern
		1121	" "	1 disappeared to the east



3/14/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
		1123	B-f. Albatross	Remaining one lit astern
		1130	" "	1 still following
		1134	" "	2 now astern
		1135	" "	3 now astern
		1136	" "	1 shot, others left
		1145	" "	1 close, 2nd on horizon
		1150	" "	2 following astern
21° 41.5'	174° 36.5'	1200		
		1210	B-f. Albatross	Only 1 astern
		1220	" "	Lit to eat garbage
		1240	" "	1 following astern
		1245	Sooty Tern(?)	Crossed bow from W to E
21° 29.5'	174° 38'	1300	B-f. Albatross	Still following
		1300	Laysan Alb.	Following astern
		1305	" "	Disappeared to the W
		1305	B-f. Albatross	2nd now astern
		1315	No birds visible	
		1325	B-f. Albatross	1 following astern
		1330	" "	2 now astern
		1332	" "	3 now astern
		1335	" "	4 now astern
		1340	" "	3 now astern



3/14/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
21° 17.5'	174° 39.5'	1400		
		1415	No birds visible	
		1430	Shearwater (?)	Crossed bow to east
		1440	B-f. Albatross	1 astern
21° 05.5'	174° 41'	1500		
		1505	Laysan Alb.	1 astern
		1515	B-f. Albatross	2 now following
		1530	" "	3 now following
		1530	Laysan Alb.	Following astern
		1530	Petrels(?)	2 passed on port side
		1535	B-f. Albatross	Following ship
		1535	Laysan Alb.	" "
		1540	B-f. Albatross	One astern
		1548	No birds visible	
20° 52'	174° 42'	1600	Sooty Tern	2 headed north
		1610	B-f. Albatross	Following ship
20 51	174 43	1618	" "	2nd astern
		1624	" "	3rd astern
		1626	" "	4th astern
		1628	" "	1 shot
		1640	" "	Only 1 astern



3/14/63

Locality L	Locality	Time	Species	Remarks
20° 41'	174° 43'	1700		
		1703	R-f. Booby (?)	Immature, passed headed north, then hung around ship for a 5 min.
		1712	" "	Adult passed astern
		1712	B-f. Albatross	1 following astern
		1715	" "	2 following astern
		1715	Laysan Alb.	1 astern
		1725	B-f. Albatross	1 astern now
		1726	Shearwater(?)	Passed astern, grayish back, whitish below, no wing bars
		1730	B-f. Albatross	2 astern
		1730	Laysan Alb.	1 astern
		1735	B-f. Albatross	Only 1 astern now
		1745	" "	shot, was headed S on starboard
20° 28.5'	174° 44.5'	1800		
		1840	R-f. Booby	Imm., circling ship
		1840	???	Brown, like one shot, circling ship, both above birds shot, but ship was unable to pick them up.
		1842		
20° 16.5'	174° 46'	1900	R-f. Booby(?)	Tried to land on ship twice, then lit in water, not seen again



3/15/63

Locality L	Locality	Time	Species	Remarks
18-08	174-58	0700		
		0745	B-f. Albatross	2 following astern
		0753	Petrel(?)	Crossed bow from E to W
17-56	174-58	0800		
		0810	B-f. Albatross	2 following ship, bos'n shot at one, but didn't hit it; both scared away
		0830	Booby(?)	Flying high from NW to SE
		0845	Shearwater(?)	Headed N on Starboard; light below
17-43.5	174-58	0900		
		0910	B-f. Albatross	Following astern
		0915	No birds visible	
		0942	B-f. Albatross	1 following astern
		0950	No birds visible	
17-31.5	174-58	1000		
		1035	B-f. Albatross	1 astern; shot at it, but missed
		1055	No birds visible	
16-44	175-00	1400		
		1430	Booby(?)	Reported by bos'n, crossed bow headed SW



3/16/63

Locality L	Locality <sup>λ</sup>	Time	Species	Remarks
13° 32' N	175° 38' W	0725	Booby(?)	Imm. reported by bos'n; circling ship
13° 16' N	175° 39' W	0835	Sooty Tern	6 passed off bow headed south
13° 14' N	175° 39' W	0845	W-t. Tropic Bird	Came from west, circled ship, headed NE
12° 59' N	175° 39' W	0956	" " "	2 circled ship for several minutes, then headed W, sp. of 2nd uncertain
12° 28' N	175° 41' W	1156	Sooty Tern	Came from S, passed to starboard
11° 27' N	175° 39' W	1800	Petrel(?)	Cut across bow headed E



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3/17/63

Locality L	Locality $\lambda$	Time	Species	Remarks
08-55N	175-40.3W	0700		
		0740	No birds	
08-42N	175-40.5W	0800		
		0856	Sooty Tern	e off starboard
0830N	175-40.7W	0900		
		0927	W-t. Tropic Bird	Circlcd ship, immature short-tail, black tipped wing, black back, bill black, stayed about 15 min.
08-18N	175-40.8W	1000		
		1015	R-t. Tropic Bird	S to N
08-04N	175-40.9W	1100		
		1122	Petrel(?)	Off port S to N
		1144	Petrel	2 off bow, heading S, small black
		1150	R-t. Tropic Bird	Flying very low on water in front of ship headed S.
		1155	" " "	Possibly same bird- off strbrd, S to NW
07-50N	175-41W	1200		
		1205	Petrel(?)	Jet black, small, headed S, off bow
		1235	W-t. Tropic Bird(?)	Imm. approached from W, turned N.
07-35N	175-42.5W	1500		
21	41.1	1533	Christmas Is. Shearwater	Off starboard, very close, followed rain squall; 6
		1545	" " "	1 off bow



3/17/63 cont.

Locality L	Locality <sup>1</sup>	Time	Species	Remarks
07-21N	175-43.5W	1600		
		1645	Bulwer Pet.	2 off starboard - in squall
07-08N	175-45W	1700	" "	Off Starboard, in squall
		1724	Sooty Tern	2 off starboard S to N - in light squall
		1730	Bulwer Petrel	Off port, squall in progress



3/18/63

Locality L	Locality	Time	Species	Remarks
04-35N	175-40SW	0630	Petrels or shearwaters	2 - astern - spotted by Frank
03-55N	175-52W	0925	Booby	Mr. Bushman spotted off starboard
		1322	R-f. Booby	Port to Starboard, stopped on water, flew S.
03-15N	176-00W	1330		
03-00N	176-03	1500	Frigate (?)	Crossed bow headed E about 2 mi. ahead
03-40N	176-07	1700		
		1705	Br. Booby	Immature, crossed bow headed SE
		1725	Br. Booby	Passed ship heading S at 140 mi. N. Howl.
03-35N	176-08	1730		
		1735	Br. Booby	Passed ship heading south
03-22N	176-10	1845	Mask. Booby	Came from W, circled behind ship, head S



3/19/63

Locality L	Locality	Time	Species	Remarks
00-51N	176-41W	0630		
		0631	Mask. Booby	Circled
		0640	Fairy Tern	Way off bow, N to S
		0646	Mask. Booby	4 off port side
		0649	Frigate	4 high off starboard bow
		0656	Sooty Tern	3 passed
00-47N	176-42W	0700		
		0701	Frigate	Off starboard bow
		0704	Mask. Booby	5 passed headed S
		0708	" "	Port side headed S
		0712	Sooty Tern	Passed close astern
		0713	Mask. Booby	2; 300 yds. off port side
		0715	Frigate	2 high off port bow
		0748	Mask. Booby	2 adult, 1 imm.
		0749	Sooty Tern	4 passed ship
		0752	Br. Booby	2 off port side

ARRIVED How.



3/27/63

Locality L	Locality	Time	Species	Remarks
0° 42' N	169° 42.5' W	0900		
		0905	Fairy Tern	Headed NE
		0925	Mask. Booby	2 passed on port headed NE, 1 was sitting on water
		0930	Tropic Bird	imm., very short tail, no black on wings
0° 53' N	169° 36' W	1000		
		1019	Shearwater	Christmas Is. (?) Passed low on water off starboard headed NE
1° 03.5' N	169° 28' W	1100		
		1140	<u>O. castro</u> Petrel	2 flying just above water headed NE white rump, forked tail
1° 14' N	169° 20.5' W	1200		
		1239	<u>O. castro</u> Pet.	2 off port, just above water headed NE
1° 39' N	169° 09' W	1400		
		1415	Boobies	Bosum spotted 13 Br. Boobies (?) off port
		1524	Sooty Tern	Off starboard headed SE
1° 55' N	168° 58.5' W	1530		
		1552	Tern	Off port - probably Sooties
2° 01' N	168° 54.5' W	1600	Booby	Imm., brownish, off stern
		1610	W-t. Shearwtr.	2 headed NE on starboard side
		1613	Christmas Is. Shearwater(?)	Headed NE on starboard
		1625	" " "	Following ship 200 yds of strbrd. going NE



3/27/63 cont.

Locality L	Locality	Time	Species	Remarks
		1640	Shearwater	33 mixed flock of Christmas and W-t. crossed bow, headed E
		1647	W-t. Shearwtr.	Off port bow
		1650	W-t. Shearwtr.	3 off port bow
		1655	W-t. Shearwtr.	1 on port side
2° 12.5' N	168° 47.5' W	1700	" "	2 off port bow with Christmas' below
		1700	Christmas Is. Shearwater	3 off port bow with Wedge-tails above
		1702	" " "	3 sitting on water off starboard
		1702	" " "	2 flying off bow together
		1702	W-t. Shearwtr.	3 flying off bow
		1705	Christmas Is. Shearwater	2 off port bow headed NE
		1710	W-t. Shearwtr.	4 sitting in water off bow
		1710	" "	1 flying to starboard
		1710	Christmas Is. Shearwater	1 flying to starboard
		1715	" " "	2 off starboard bow together
		1715	W-t. Shearwtr.	2 off starboard bow
		1750	Shearwaters	Flock of 75-100 mixed Christmas and W-t. mostly former, feeding and sitting on water
2° 23' N	168° 41' W	1800	Ch. Is. Shrwtr. (?)	4
		1845	W-t. Shearwtr.	Headed NE on starboard



3/28/63

Locality L	Locality <sup>λ</sup>	Time	Species	Remarks
4° 45' N	167° 22.5' W	0600		
		0645	Br. Booby	2; Boson spotted circling ship
			Shearwaters	also as above
5° 09' N	167° 09' W	0800		
		0810	Christmas Is. Shearwaters	2 off bow down starboard side, headed S
		0821	Frigate Bird	Immature
		0830	Ch. Is. Shrwtr.	2 off starboard bow skimming over water
		0844	" " "	200 yds starboard headed NE
		0850	Fairy Tern	3 appeared off port bow headed S feeding
5° 22' N	166° 58' W	0900		
		0902	Ch. Is. Shrwtr.	Port bow headed SW
		0908	W-t. Shearwtr.	2 crossed bow port to starboard-
		0928	Ch. Is. Shearwtr.	2 crossed bow port to starboard-lappeared light
5° 34' N	166° 52' W	1000		
		1002	Bulwers(?)	crossed bow to west
		1006	Ch. Is. Shearwtr.	Crossed bow to port
5° 45' N	166° 45' W	1115	" " "	Off starboard headed NE
		1125	" " "	Off Starboard - 5
		1125	Fairy Tern	2 off starboard
		1131	" "	2 crossed bow headed NE
		1131	Ch. Is. Shearwtr.	1 off starboard bow



3/28/63 cont.

Locality L	Locality	Time	Species	Remarks
5° 57' N	166° 38' W	1200		
		1215	W-t. Shearwtr.	2 off starboard
		1215	Petrel with white rump patch	-1
		1215	Ch. Is. Shearwtr.	2 off starboard
		1245	" " "	Off starboard headed to stern
06° 07' N	166° 32' W	1300	Shearwater	Approx. 15 in flock off port bow, not close
		1305	"	10, probably Ch. Is., with below
		1305	Fairy Tern	1 with above, off starboard 300 yds, feeding in school of fish
		1308	Ch. Is. Shearwtr.	Crossed bow headed E
		1316	Fairy Tern	Off Starboard 300 yds headed SE
		1327	Ch. Is. Shearwtr.	Off port headed NE
		1345	Booby	imm., circled ship, lit on water 1350
6° 18' N	166° 25' W	1400		
		1403	Ch. Is. Shearwtr.	Crossed bow headed starboard
		1422	W-t. Shearwtr.	Off bow
		1450	Ch. Is. Shearwtr.	Crossed bow, starboard to port
6° 31' N	166° 17.5' W	1500	W-t. Shearwater	2, feeding?, in rain squall
		1520	Tropic Bird	Circled ship, headed NW
		1530	Ch. Is. Shearwtr.	Headed NE off starboard



2/28/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
6° 42' N	166° 11.2' N	1600		
		1615	Ch. Is. Shearwtr.	Off port in squall
		1640	Shearwater(?)	Off starboard headed NE
		1643	Ch. Is. Shearwtr.	Off port
		1648	W-t. Shearwater	3 off port
6° 54' N	166° 04' N	1700		
		1745	Ch. Is. Shearwtr.	4 off port headed NE
7° 04' N	165° 58' N	1800		
		1820	Bulwers(?)	Off starboard bow
7° 09' N	165° 55' N	1830	Ch. Is. Shearwtr.	Off starboard bow



3/29/63

Locality L	Locality $\lambda$	Time	Species	Remarks
9° 56' N	164° 36.5' W	0830	Tropic Bird	Off port headed W
		0953	Bonin Is. Pet.	Passed port headed SW
		0958	Ch. Is. Shearwtr.	Passed starboard headed NE
10° 18' N	164° 23.5' W	1100		
		1141	Ch. Is. Shearwtr.	Off port
10° 34' N	164° 17.5' W	1200		
		1250	Petrel or Shrwtr. (?)	Off port bow
11° 26' N	163° 53.0' W	1600	Ch. Is. Shearwtr.	2 off starboard bow headed NE
		1608	R-t. Tropic Bird	Passed ship headed E



3/30/63

Locality L	Locality $\lambda$	Time	Species	Remarks
14° 20' N	162° 02' W	0750	R-t. Tropic Bird	Off bow headed NE, low on water
14° 21' N	162° 01' W	0815	Ch.Is.Shearwtr.	2 off starboard bow headed NE
14° 44' N	161° 50' W	0950	Small black birds - 3 unidentified,	off starboard, smaller than Ch.Is.Shearwtr., 1 lit
15° 29' N	161° 30' W	1540	White-t. Tropic Bird	Circled ship



3/31/63

Locality L	Locality $\lambda$	Time	Species	Remarks
18° 18' N	159° 51.5' W	0530	Petrels or shearwaters	Mr. Epoch spotted these off starboard-3
18° 39' N	159° 35.5' W	0730	Sooty Tern	2 off starboard headed NE
		0754	Petrels(?)	2 off starboard
18° 43' N	159° 32.5' W	0800	Sooty Tern Fairy Tern W-t. Shearwtr.	Approx. 50 off starboard, feeding in flock about 100 yds, terns came in close to ship
		0832	Petrel(?)	Off port, black, not large enough to be Ch. Is. Shearwater
		0857	Sooty Tern Wedgetail Sh.	25+ - both sides of ship, headed NE 2 with above
18° 51.5' N	159° 25.5' W	0900		
		0932	Petrels or Shearwater	3, black, off starboard 200 yds.
		0935	White-t. Tropic Bird	Passed bow headed SE
19° 00.0' N	159° 19' W	1000		
		1005	Ch. Is. Shearwtr.	Headed NE, starboard, 2
		1015	" " "	Headed N, starboard to bow to port
		1030	White-rump Pet.	(sm) crossed bow headed W
		1035	Ch. Is. Shearwtr.	Off starboard
		1037	" " "	Starboard headed port (across bow)
		1039	Wh. Rump. Petrel	(small) off port
		1045	Shearwtr. or Pet.	Large - black on top (wings and body) Starboard to port, underwings white underbody black



3/31/63 cont.

Locality L	Locality	Time	Species	Remarks
		1052	Ch. Is. Shearwtr.	Starboard
19° 08.5' N	159° 13.5' W	1100	Petrel(?)	Starboard
		1102	Wh. Rump. Petrel	Crossed bow headed W
19 18	159 08	1115	Petrel or Shrwtr.	Black wings and body, white only under wings, off starboard
		1117	Ch. Is. Shearwtr.	Crossed bow
		1134	Petrel or Shrwtr.	Lighter color wing bars-black otherwise
		1141	Ch. Is. Shearwtr.	Off starboard bow
19° 25.5' N	159° 00.5' W	1400	B-f. Albatross	Following ship, 1st to appear
		1430	Sooty Tern	Off port headed S
		1434	W-t. Shearwtr.	Off port headed S
		1450	" "	App. 25 in flock off port headed S
		1458	Ch. Is. Shearwtr.	Port headed NE
19° 34.0' N	158° 54.0' W	1500	B-f. Albatross	Some still following ship
		1510	W-t. Shearwtr.	1 crossed bow, strbrd to port, 1 off port 1000 yards.
		1556	Ch. Is. Shearwtr.	2 off port bow
19° 42.5' N	158° 47.5' W	1600	B-f. Albatross	Same as above still following ship
		1604	W-t. Shearwtr.	Port bow
		1615	Red-foot	Immature, circled ship, brown wings, white body, dark head (top), salmon bill, tip black
		1650	Sooty Tern	2 came from stern headed N.



3/31/63 cont.

Locality L	Locality $\lambda$	Time	Species	Remarks
		1655	Sooty Tern	Off stern
19° 51.0' N	158° 41' W	1700	B-f. Albatross	Still following ship
		1700	Red-f. Booby	Circled ship, ad. and 2 imm., 1 imm. collected
19° 59.5' N	158° 34.5' W	1815	Red-f. Booby	Imm. or mask. ad. circling ship



4 = 4

SAVE

3/13

positions for birds

1400 - 26°-02'N 174° 04'W

1500 25° 49'N 174° 06'W

1600 25° 36.5'N 174° 07'W

1700 25° 23.5'N 174° 09'W

1800 25° 11.3'N 174° 10.2'W

SAVE

NAVIGATOR

Distance to g.b. 1530

Distance 1530

Lisianski To Howland Island



Pub 170. 95 on extra page of 211 & 212 in Pub  
pages 213 to 218 are missing.



Posits - bird sightings 3/14

Time	Lat	Long.
0700	22° 34' N	174° 30' W
0800	22° 22' N	174° 31.5'
0900	22° 14'	174° <del>33.5'</del> <sup>32'</sup>
1000	22° 03'	174° 33.5'
1100	21° 51'	174° 35'
1200	21° 41.5'	174° 36.5'
1300	21° 29.5'	174° 38'
1400	21° 17.5'	174° 39.5'
1500	21° 05.5'	174° 41'
1600	20° 52'	174° 42'
1700	20° 41'	174° 43'
1800	20° 28.5'	174° 44.5'
1900	20° 16.5'	174° 46'



Positions for 3/15 - bird sightings

Time	Lat	Long,
0700	18-08	174-58
0800	17-56	174-58
0900	17-43.5	174-58
1000	17-31.5	174-58
1100	17-19.2	174-58
1200	17-06.1	174-58
1300	16-56	175-00
1400	16-44	175-00
1500	16-32	175-00
1600	16-20	175-00
1700	16-07.9	175-00.1
1800	15-56.9	175-00
1900	15-54.8	175-01



Time

LOCALITY

16 March 1963

Latitude

Longitude

0725

13° 32' N

175° 38' W

0835

13° 16' N

175° 39' W

0845

13° 14' N

175° 39' W

0956

12° 59' N

175° 39' W

1156

12° 28' N

175° 41' W

1800

11° 27' N

175° 39' W



3/17

TIME	LOCALITY
0700	08-55N 175-40.3W
8	08-42N 175-40.5W
9	08-30N 175-40.7W
10	08-18N 175-40.8W
11	08-04N 175-40.9W
12	07-50N 175-41W
15	07-35N 175-42.5W
16	07-21N 175-43.5W
17	07-08N 175-45W
18	06-55 175-46.5



3/18

10<sup>4</sup> hours

TIME	LOCALITY	
0630	04-35 N	175-40.5 W
0930	03-55 N	175-52 W
1330	03-15 N	176-00 W
1500	03-00 N	176-03
1700	03-40 N	176-07
1730	03-35 N	176-08
1845	03-22 N	176-10

3/19

0630	00-51 N	176-41 W
0700	00-47 N	176-42 W
0800	00-50 N	176-40 W



DATE	TIME	LOCALITY
3/26	1750	01°30' S 170°54' W
3/27	0900	0°42' N 169°42.5' W
	1000	0°53' N 169°36' W
	1100	01°03.5' N 169°28' W
	1200	01°14' N 169°20.5' W
	1400	01°39' N 169°09' W
	1530	01°55' N 168°58.5' W
	1600	02°01' N 168°54.5' W
	1700	02°12.5' N 168°47.5' W
	1800	02°23' N 168°41' W
	1845	02°30' N 168°36' W
3/28	0600	04°45' N 167°22.5' W
	0700	04°57' N 167°16' W
	0800	05°09' N 167°09' W
	0900	05°22' N 166°58' W
	1000	05°34' N 166°52' W
	1100	05°45' N 166°45' W
	1200	05°57' N 166°38' W

~~1300~~  
~~1400~~  
~~1500~~  
~~1600~~  
~~over~~



~~1700~~  
~~1800~~  
~~1900~~

3/29

0830  $09^{\circ}56'N$   $164^{\circ}-36.5'W$   
1000  $10^{\circ}-06'N$   $164^{\circ}-30.0'W$   
1100  $10^{\circ}-18'N$   $164^{\circ}-23.5'W$   
1200  $10^{\circ}-34'N$   $164^{\circ}-17.5'W$   
1300  $10^{\circ}-56'N$   $164^{\circ}-11.0'W$   
1400  $11^{\circ}-26'N$   $163^{\circ}-53.0'W$



DATE	TIME	LOCALITY
3/28	1300	06°-07' N 166°-32' W
	1400	06°-12' N 166°-25' W
	1500	06°-31' N 166°-17.5' W
	1600	06°-42' N 166°-11.2' W
	1700	06°-54' N 166°-04' W
	1800	07°-04' N 165°-58' W
	1830	07°-09' N 165°-55' W

3/30	0750	14°-20' N - 162°-02' W
	0815	14°-21' N - 162°-01' W
	0950	14°-44' N - 161°-50' W
	1540	15°-29' N - 161°-30' W

3/31	0530	18°-18' N - 159°-51.5' W
	0730	18°-39' N - 159°-35.5' W
	0800	18°-43' N - 159°-32.5' W
	0900	18°-51.5' N - 159°-25.5' W
	1000	19°-00.0' N - 159°-19.0' W
	1100	19°-08.5' N - 159°-13.5' W
	1200	19°-17.0' N - 159°-07.0' W
	1400	19°-25.5' N - 159°-00.5' W
	1500	19°-34.0' N - 158°-54.0' W
		over



1600  $19^{\circ}42.5'N - 158^{\circ}47.5'W$

1700  $19^{\circ}51.0'N - 158^{\circ}41.0'W$

1815  $19^{\circ}59.5'N - 158^{\circ}34.5'W$

~~1900~~

1915



14 March 1963

0908	blackfoot	approached from S, passed ship, hung in behind
0923	"	disappeared to the E
0928	blackfoot	far off stern
0933	Laysan	off starboard
0945	blackfoot	off stern
1012	"	disappeared
1018	blackfoot	off stern
1020	"	2nd bird off stern
1022	"	both blackfoots disappeared
1032	blackfoot	2 off stern
1040	"	both disappeared to the west
1045	blackfoot	2 off stern
1052	"	both disappeared to the east
1055	blackfoot	2 far astern
1105	"	one disappeared to the east
1110	"	2 off stern
1115	"	one of 2 lit astern
1120	"	both flying astern
<del>1121</del>	"	one disappeared to the east
1123	"	remaining one lit astern
1130	"	one still following
1134	"	2 now astern
1135	"	3 now astern



14 March 1963

2nd page

1136	blackfoot	one shot, others left
1145	"	one close, 2nd on horizon
1150	"	2 following astern
1210	"	only one astern
1220	"	lit to eat garbage
1240	"	one following astern
1245	sooty tern?	crossed bow from west to east
1300	blackfoot	still following
	laysan	following astern
1305	"	disappeared to the west
1305	blackfoot	2nd now astern
1315		no birds visible
1325	blackfoot	one following astern
1330	"	2 now astern
1332	"	3 " "
1335	"	4 " "
1340	"	3 " "
1415		no birds visible
1430	? shearwater	crossed bow to east
1440	blackfoot	one astern
1505	laysan	one astern
1515	blackfoot	2 now following
1530	"	3 " "
1530	laysan	following astern



14 March 1963

3rd page

1530	petrels ?	2 passed on port side
1535	blackfoot	following ship
"	haysan	" "
1540	blackfoot	one astern
1548		no birds visible
1600	sooty tern	2 - headed north
1610	blackfoot	following ship
1618	"	2nd astern
1624	"	3rd "
1626	"	4th "
1628	"	one shot
1640	"	only one astern
1703	booby red-footed	? Imm., passed around ship for @ 5 min. headed north, then hung
1712	booby red-footed	adult passed astern
1712	blackfoot	one following astern
1715	"	2 " "
"	haysan	one astern
1725	blackfoot	one astern now
1726	? shearwater	passed astern, grayish back, whitish below, no wing bars
1730	blackfoot	2 astern
"	haysan	one "
1735	blackfoot	only one astern now
1745	?	shot, was headed south on starboard



14 March 1963

4th page

1840

booby  
red-footed

Imm., circling ship

?

brown, like one shot, circling ship

1842

both above birds shot, but ship was

unable to pick them up

1900

booby?  
red-footed

tried to land on ship twice, then

lit in water, not seen again



15 March 1963

- |      |             |                                                                          |
|------|-------------|--------------------------------------------------------------------------|
| 0745 | black foot  | 2 following astern                                                       |
| 0753 | petrel?     | crossed bow from east to west                                            |
| 0810 | blackfoot   | 2 following ship, bos'n shot at one, but didn't hit it; both scared away |
| 0830 | booby?      | flying high from NW to SE                                                |
| 0845 | shearwater? | headed north on starboard; light below                                   |
| 0910 | blackfoot   | following astern                                                         |
| 0915 |             | no birds visible                                                         |
| 0942 | blackfoot   | one following astern                                                     |
| 0950 |             | no birds visible                                                         |
| 1035 | blackfoot   | one astern; shot at it, but missed                                       |
| 1055 |             | no birds visible                                                         |
| 1430 | booby?      | reported by bos'n, crossed bow headed SW                                 |



16 March 1963

0725	booby ?	Imm. reported by bosin; circling ship
0835	sooty tern	6 passed off bow headed south
0845	WT tropicbird	came from west, circled ship, headed NE
0956	WT tropicbird	} circled ship for several minutes, then } headed W, sp. of 2nd uncertain
"	tropicbird	
1156	sooty tern	came from south, passed to starboard
1800	petrel ?	cut across bow headed east



177 · March 1963

07:40	no birds	
0856	3 sooty tern	off starboard
0927	white tailed tropicbird	- circled ship - immature short tail black tipped wing back black, bill black stayed about 15 min.
1015	red tailed tropicbird	S → N
1122	petrel?	off port S → N
1144	2 petrels?	off bow → S Sw. black
1150	red tailed tropicbird	- flying very low over water in front of ship → S
1155	"	possibly same bird - off starboard S → NW
1205	1 petrel?	jet black, small → S off bow
1235	WT tropicbird	? Tern approached from W, turned N
1533	6 Christmas Is. Shearwaters	off Starboard - very close - followed rain squall
1545	1 C.I. Shearwater	off bow
1645	2 Bulwer petrel	off starboard - in squall
1700	3 Bulwer petrel	- in squall
1724	2 Sooty tern	off starboard S → N - in light squall
1730	1 Bulwer petrel	off port - squall in progress



MARCH 18, 1963

0630

2 petrels  
or shearwaters

astern - spotted by Frank.

0925

Birds  
red footed  
Booby

Mr. Peterson spotted off starboard  
Port → Starboard stopped on waterflea S.

1322

1500

Frigate

? crossed bow headed E @ 2 mi ahead

1705

Imm.  
Brn. Booby

crossed bow headed SE  
@ 140 mi to Hawaiian Is.

1725

Brn. Booby

passed ship heading south

1735

Brn. Booby

" " "

1845

marked  
Booby

came from west, headed South  
circled behind ship



19 March 1963

0631	washed booby	ended
0640	Puffin tern	way off bow, N to S
0646	washed booby	four off port side
0649	Frigate	4 high off starboard bow
0656	sooty tern	3 passed
0701	Frigate	off starboard bow
0704	washed booby	5 passed headed south
0708	washed booby	port side headed south
0712	Sooty tern	passed close astern
0713	washed booby	2 300 yds. off port side
0715	Frigate	2 high off port bow
0748	washed booby	2 ad. 1 imm.
0749	sooty tern	4 passed ship
0752	sooty tern booby	2 off port

arrived Howland



27 March 1963

1750	Pigeon	26 March	
0905	Pink tern	headed NE	one was sitting on water
0925	washed Booby	2 passed on port	headed NE
0930	imm Tropicbird	very short tail	- no black on wings
1019	Shearwater Xmas Is. (?)	passed low on water off starboard	→ NE
1140	O. castro petrel	white rump, forked tail	2 flying just above water headed NE
1239	O. castro petrel	2 off port - just above water	→ NE
1415	Boobies	Boson spotted 13 brown boobies (?)	off port
1524	Sooty Tern	off starboard	→ SE
1552	<del>Sooty</del> Terns	3 off port	- probably sooty
1600	imm Booby	Brownish -	off stern
1610	WT shearwater	2 headed NE	on starboard side
1613	Xmas Is shearwater ?	headed NE	on starboard
1625	Xmas Is. shearwater	Following 200 yds of starboard	headed NE
1640	shearwater	33 mixed flock of Xmas + WT	bow headed east crossed
1647	wedgetail shearwater	off port low	
1650	WT shearwater	3 off port bow	
1655	WT shearwater	one on port side	
1700	"	2 off port bow	} together
1700	Xmas Is. shearwater	3 " " "	
1702	"	3 sitting on water off starboard	
1702	"	2 flying off bow	} together
1702	WT shearwater	3 " " " "	



27 March pg. 2

1705	Xmas Is shearwater	2 off port bow headed NE
1710	WT shearwater	4 sitting in water off bow
1710	"	one flying to starboard
1710	Xmas Is shearwater	" " " "
1715	"	2 off starboard bow } together
1715	WT shearwater	2 " " " }
1750		Flocks of 75-100 mixed Xmas + WT shearwaters, mostly former, feeding and sitting on water
1800	Xmas I (?)	4
1845	WT shearwater	headed NE on starboard



28 March

0645	2 Brown Booby	Boson spotted circling ship - Also shearwaters
0810	2 XMAS Is. Shearwater	- off bow down starboard side → S
0821	Frigate Petrel	immature
0830	2 XMAS Is. S.W.	off Starboard low skimming water
0844	XMAS Is. Saw	200 yds STARBOARD ↔ NE
0850	3 FAIRY TERNS	appeared off port bow → S feeding
0902	Xmas Is. Shearwater	port bow → S.W.
0908	Wedgetail Shearwater	crossed bow port → Starboard
0928	XMAS Is. S.W.	2 crossed bow port → Starboard - one appeared lighter
1002	Bulwer's?	crossed bow to west
1006	Xmas Is. S.W.	crossed bow to port
1115	Xmas Is. S.W.	off Starboard → NE
1125	5 Xmas Is. S.W. 2 Fairy Terns	off Starboard
1131	2 Fairy Terns 1 Xmas Is.	FT. crossed bow → NE (Xmas I off Starboard Bow)
1215	2 Wedgetail S.W. 1 Xmas Is. 1 petrel and white rumped petrel	off Starboard
1245	2 XMAS IS.	off Starboard → stem
1300	Shearwater	approx 15 in flock off port bow - not close
1305	1 Fairy Tern 10 Shearwater (port. Xmas)	off Starboard (300 yds) feeding <sup>school</sup> in flock
1308	1 Xmas Is.	crossed Bow → E.
1316	Fairy Tern	off Starboard (300 yds) → SE
1327	1 Xmas Is.	off port → NE
1345	Bulwer's	crossed ship - lit on water 1350
1403	Xmas Is.	crossed Bow → STARBOARD
1422	Wedgetail Shearwater	off Bow



28 March  
P. 2

1450	Xmas Is.	Crossed Bow Starboard → Port
1500	2 wedgetail Shearwaters	- feeding (?) in rain squall
1520	trijirled	in led ship - headed NW
1530	Xmas Is.	headed NE off starboard
1615	Xmas Is.	off port in squall
1640	Shearwater(?)	off starboard → NE
1643	Xmas Is.	off port
1648	wedgetail Shearwater	3 off port star
1745	Xmas Is.	4 off port headed NE
1820	Bulwers?	off starboard bow
1830	Xmas Is.	" " "



29 March

0830	Tropicbird	off port → W
0953	Bonin Is Petrel	passed port → SW
0958	Kuro I. S. Shearwater	passed starboard → NE
1141	Kuro I. 2	off port
1250	Petrel or Shearwater	off port low
1600	Kuro I. 2	2 off starboard low headed NE
1608	RT Tropicbird	passed ship headed east

SAT. MARCH 30

0752	RT Tropicbird	off low → NE low on water
0815	Kuro I. 2 S. W	2 off starboard low → NE
0950	3 sm. black unident. P	— off starboard - smaller than Kuro I. 2 - 1 lit
1540	White T Tropicbird	circled ship



31 March 1963

0530	3 petrels or shearwaters	Mr Engel spotted these off starboard
0730	2 Sooty terns	off Starboard → NE.
0754	2 petrels(?)	off Starboard
0800	approx 50 Sooty terns one Fairy tern several Wedgetail Shearwater	feeding in flocks about 100 yds off Starboard terns came in close to ship
0832	1 petrel(?)	black off port - not large enough to be Xmas Is.
0857	25 ± Sooty terns 2 wedgetail Shearwater	both sides of ship → NE
0932	3 petrels or shearwaters	black - off Starboard 200 yds
0935	white-tailed tropicbird	crossed bow → SE
1005	2 Xmas Is Shearwater	→ NE Starboard
1015	Xmas Is Sw	→ N Starboard → Bow → Port
1030	white-rumped petrel (Sw)	crossed bow → W
1035	Xmas Is Sw	off Starboard
1037	Xmas Is Sw	Starboard → Port (cross bow)
1039	white-rumped petrel (small)	off port
1045	49 Shearwater or petrel	black on top (wings + body) Starboard to Port underwings white under body black
1052	Xmas Is Sw	Starboard
1100	petrel(?)	Starboard
1102	white-rumped Petrel	crossed bow → W
1115	Petrel or Sw	Black wings + body white only under wings - off starboard
1117	Xmas Is	crossed bow
1134	petrel or Shearwater	lighter color wing bar - black otherwise
1141	Xmas Is	off Starboard low
1400	B.F. Alb (1)	following ship - 1st to appear



March 31, 1963 (cont.)

1430	1 Sooty tern	off Port → S
1434	wedgetail Shearwater	off Port → S
1450	wedgetail Shearwater	egg 25 in flock off port → S
1458	2 imm F2.	Port → NE
1500	Some B.F. Alb.	still following ship
1510	wedgetail S.W.	one crossed bow Starboard to Port one off port 100 yds
1556	2 imm F2. Shearwaters	off Port bow
1600	Some B.F. Alb.	still following ship
1604	wedgetail S.W.	Port bow
1615	1 imm. red-foot	circled ship brown wings white body - dark head (top)
1650	2 Sooty tern	came from stern → N
1655	1 Sooty tern	off stern
1700	B.F. Alb.	still following ship
1700	red footed body	circled ship ad + 2 imm.
1815	red footed body	one imm. circled imm. on west ad. circling ship

Salmon bill  
Tipp black