

TABLE V

Bird Species Observed At Sea, Leeward Survey
March 1965

	Mar 3	Mar 4	Mar 5	Mar 21	Mar 22	Mar 23
Laysan Albatross	2	8	8	18	11	2
Black-footed Albatross	30	11	23	31	20	9
Wedge-tailed Shearwater	3	30		15	111	207
Christmas Is. Shearwater		1		2		
Newell's Shearwater						1
Sooty Shearwater				1	22	67
Bonin Is. Petrel				23	6	
Mottled Petrel						1
Sooty Storm Petrel		2				5
Leach's Storm Petrel		2	3	1		1
White-tailed Tropicbird	5					2
Blue-faced Booby		1?	3		1	1
Brown Booby	13				3	11
Red-footed Booby	2				11	27
Great Frigatebird				1	2	9
Phalarope sp.		1			1	
Pomarine Jaeger	10					
Sooty Tern	503	201	181	233	193	107
Grey-backed Tern		2	1		19	21
Common Noddy	2				1	4
Hawaiian Noddy	60	1				48
Blue-Grey Noddy		1				1
Fairy Tern		37	2	1	13	16
Unidentified	5	2		3	55	43
TOTAL	635	301	221	329	469	582

TABLE VI

At Sea Daily Observations Summary

	Mar 3	Mar 4	Mar 5	Mar 21	Mar 22	Mar 23
Total miles Observation	104	139	133	135	127	127
Total minutes obs.	584	716	714	721	723	724
Total Birds	635	301	221	329	469	582
Total sightings	46	91	49	105	205	317
Birds/mile	6.11	2.17	1.66	2.44	3.69	4.51
Birds/sighting	13.80	3.31	4.51	3.13	2.29	1.84
<u>Shearwater-Petrel Albatross</u>						
Total birds	38	54	34	94	219	316
Birds/sighting	4.22	1.93	3.40	1.62	1.51	1.49
Birds/mile	0.37	0.39	0.26	0.70	1.72	2.49
<u>Tropicbirds</u>						
Total birds	7	0	0	0	0	2
Birds/sighting	1.17					1
Birds/mile	0.07					0.02
<u>Terns</u>						
Total birds	565	242	184	234	232	203
Birds/sighting	21.73	3.84	5.11	5.71	4.38	3.08
Birds/mile	5.43	1.75	1.38	1.73	1.83	1.60
<u>Boobys</u>						
Total birds	15	1	3	0	15	52
Birds/sighting	3.75	1	1		1.5	1.58
Birds/mile	0.14	< 0.01	0.02		0.12	0.41
<u>Frigate birds</u>						
Total birds	0	0	0	1	2	9
Birds/sighting				1	2	1.29
Birds/mile				< 0.01	0.02	0.07
Flocks	7(534)	3(156)	6(125)	10(186)	3(199)	2(135)
Feeding flocks	4(508)	1(76)	0	0	3(199)	1(123)

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

385
11-20

DATE: March 3, 1965 Total Minutes: 584 (0900-1844) Total Miles 104

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
46	635	13.80	6.11

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
9	3	1	-	38	3	1	-	4.22	1	1	-	0.37	0.03	0.01	-

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
6	-	4	7	-	5	1.17	-	1.25	0.07	-	0.05

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
26	565	21.73	5.43

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
4	-	2	2	15	-	2	13	3.75	-	1	6.50	0.14	-	0.02	0.13

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
7	534	0.07	4	508	0.04

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: March 4, 1965 Total Minutes: 716 (0607-1803) Total Miles 139

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
91	301	3.31	2.17

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
28	17	-	?	54	30	-	?	1.93	3.21	-	-	0.39	0.22	-	-

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
0											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
63	242	3.84	1.75

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	< 0.01

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
1?				1?				1				< 0.01			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
3	156	0.02	1	76	< 0.01

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: March 5, 1965 Total Minutes: 714 (0627-1821) Total Miles 133

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
49	221	4.51	2.17 1.66

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
10	-	-	-	34	-	-	-	3.40	-	-	-	0.26	-	-	-

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
0											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
36	184	5.11	1.38

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
3				3				1				0.02			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
6	125	0.05			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: March 6, 1965 Total Minutes: (0830) Total Miles

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
88 88	152 (w/o Albatross)		

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
38	2	33	-	65	2	60	-								

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
0											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
42	80		

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
6	2	4	-	6	2	4		1	1	1					

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.

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DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: March 21, 1965 Total Minutes: 721 (0621-1822) Total Miles 135

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
105	329	3.13	2.44

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
58	15	22	-	94	15	23	-	1.62	1.00	1.04	-	0.70	0.11	0.16	-

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
0											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
41	234	5.71	1.73

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
0															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	<0.01

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
10	186	0.07	0		

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AT SEA DAILY OBSERVATIONS SUMMARY

DATE: March 22, 1965 Total Minutes: 723 (0601-1804) Total Miles 127

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
205	469	2.29	3.69

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
145	78	7	-	219	111	8	-	1.51	1.42	1.14	-	1.72	0.87	0.06	-

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
0											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
53	232	4.38	1.83

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	<0.01

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
10	1	6	3	15	1	11	3	1.5	1	1.83	1	0.12	<0.01	0.09	0.02

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	2	2	0.02

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
3	199	0.02	3	199	0.02

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DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: March 23, 1965 Total Minutes: 724 (0646-1850) Total Miles 127

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
317	582	1.84	4.51

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
212	130	2	-	316	207	2	-	1.49	1.59	1	-	2.49	1.63	0.02	-

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		2			2			1			0.02

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
66	203	3.08	1.60

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
33	1	21	9	52	1	27	11	1.58	1	1.29	1.22	0.41	0.01	0.21	0.09

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
7	9	1.29	0.07

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
2	135	0.02	1	123	<0.01

DATE Wed 3 MAR '65

Time at sunrise = Position at sunrise =
Time at sunset 1844 Position at sunset $21^{\circ} = 34.5' N$ $159^{\circ} - 42' W$
Miles traveled from 0000 hours to sunrise =
Miles traveled from sunrise to sunset = 104 mi.
Miles traveled from sunset to 2400 hours = 64 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1100W	Vis + Radar	158-15'W 21-16'N	21-14'N
2.	1500W	Lox 24	159-45W	21-32N
3.	2104W	Vis + Radar	160-10W	21-39N
4.	2130	" " "	NIIHAU abeam to stbd. 018/6 mi.	
5.	2300	" Radar	KAOLA I. 198°/6 mi.	
6.				

DATE THUR 4 MAR. '65

Time at sunrise = 0607 Position at sunrise = $22^{\circ} - 14' N$ $162^{\circ} - 03' W$
Time at sunset = 1803 Position at sunset = $22^{\circ} - 55' N$ $164^{\circ} - 27' W$
Miles traveled from 0000 hours to sunrise = 76 mi.
Miles traveled from sunrise to sunset = 139 mi.
Miles traveled from sunset to 2400 hours = 64

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0300	Loran	161-24W	22-03N
2.	0500	"	161-47W	22-08N
3.	0600 (xray)	" 4 stars	162-02W	22-14N
4.	1000	Loran	162-50W	22-28N
5.	1830	Stars	164-36W	22-57N
6.	2400	Loran	165-33W	23-15N

AT 2000 Necker I 011° - 33 mi.

DATE FRI - 5 MAR. 1965

Time at sunrise = 0627 Position at sunrise = L 23°-38'N λ 166°-48'W
Time at sunset = 1821 Position at sunset = L 24°-28'N λ 169°-00'W
Miles traveled from 0000 hours to sunrise = 70.5
Miles traveled from sunrise to sunset = 133 mi.
Miles traveled from sunset to 2400 hours = 63 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0230	LORAN	166°-01'W	23°-23'N
2.	1200	SUN/LORAN	167°-43'W	24°-00'N
3.	1830	SUN	169°-02'W	24°-29'N
4.	2035	LORAN/ADJUSTERS	169°-25'W	24°-38'N
5.				
6.				

DATE SAT 6 MAR 1965

Time at sunrise = Position at sunrise =
Time at sunset = Position at sunset =
Miles traveled from 0000 hours to sunrise =
Miles traveled from sunrise to sunset =
Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.				
2.				
3.				
4.				
5.				
6.				

Times ⓧ (+11)

DATE FRI 19 MAR 65 Underway from Pearl & Hermes Reef

Time at sunrise = — Position at sunrise = —

Time at sunset = 1854 Position at sunset = L 27°-47'N, λ 175°-44'W

Miles traveled from 0000 hours to sunrise = —

Miles traveled from sunrise to sunset = —

Miles traveled from sunset to 2400 hours = 58 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1900	Radar	175°-42.5'W	27°-47'N
2.				
3.				
4.				
5.				
6.				

DATE SAT 20 MAR 1965

Time at sunrise = 0640 Position at sunrise = 26°-37'N, 173°-35'W

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0600	stars	173°-43'W	26°-42'N
2.	1200	SUN	172°-44'W	26°-03'N
3.				
4.				
5.				
6.				

DATE 21 March 1965 Sun

Time at sunrise = 0621X Position at sunrise = L 24°-45' N λ 169-29 W
Time at sunset = 1822X Position at sunset = L 23°-46' N λ 167°-18' W
Miles traveled from 0000 hours to sunrise = 68
Miles traveled from sunrise to sunset = 135
Miles traveled from sunset to 2400 hours = 62

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0600 X	stars	169° 38' W	24° 46' N
2.	1836 X	"	167° 16' W	23° 46' N
3.	2224 X	Loran	166° 32' W	23° 33' N
4.				
5.				
6.				

DATE 22 MAR '65 MON

Time at sunrise = 0601X Position at sunrise = L 23°-08' N λ 165°-05' W
Time at sunset = 1804X Position at sunset = L 22°-29' N λ 162°-50' W
Miles traveled from 0000 hours to sunrise = 66 mi.
Miles traveled from sunrise to sunset = 127 mi
Miles traveled from sunset to 2400 hours = 49 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0600 X	stars/Loran	165-05 W	23-08 N
2.	1200 X	sun/Loran	163-57 W	22-47 N
3.	1900 X	Loran	162-46 W	22-28 N
4.	2300 X	LORAN	162-11 W	22-16 N
5.				
6.				

DATE 24 MAR 1965 WED

Time at sunrise = 0633 Position at sunrise = L 21-16N λ 157-56W

Time at sunset = — Position at sunset = —

Miles traveled from 0000 hours to sunrise = 51 mi.

Miles traveled from sunrise to sunset = —

Miles traveled from sunset to 2400 hours = —

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	Radar → 0235		λ 158-54W	21-16N
2.	0445	Radar/vis	158-06W	21-15N
3.				
4.				
5.				
6.				

DATE 23 MAR 1965 TUES.

Time at sunrise = 0646 Position at sunrise = L 23-06N, λ 164-58'W

Time at sunset = 1850 Position at sunset = L 22-27N, λ 162-48'W

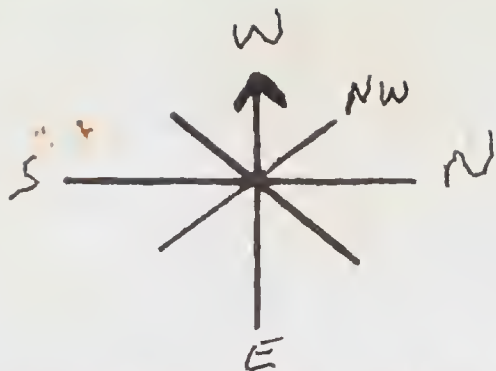
Miles traveled from 0000 hours to sunrise = 73 mi.

Miles traveled from sunrise to sunset = 127 mi.

Miles traveled from sunset to 2400 hours = 41

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0600	STARS	165-05W	23-08N
2.	1200	SUN	163-57W	22-47N
3.	1830	Loran	162-51W	22-28N
4.	2300	"	162-11W	22-17N
5.				
6.				

21/4
 0
 not right
 duplicate of
 22 March
 Del weather
 sheets



DATE March 3, 1965
Pg. # 1

time species # dir. hgt. remarks loc.

time	species	#	dir.	hgt.	remarks	loc.
					in Honolulu harbor	133 Ad ♀ on buoy
FF 0900	Brown Noddy Sooty Tern	12/3			off stb	
0910	Pom. Jaeger	10			2 on water + 3 flying	
0917	BFA	1			did not follow	
0950	"	1	→		ahead	
0955	Pom. Jaeger	1	↓			
0955	BFA	2			following one very white rump, other medium	
1005	Pom. Jaeger	1	↖		passing low	
1013	"	1	↓		dark phase	
1058	BFA	5	—		following (?) 1 dark rump	BB 13/2
1113	Pom. Jaeger	2	↗		circle stern light phase	SI 340/7
1124	"	1	↗	30'		PJ 10/1
1126	BFA	7	—		Following	RFB 1
1132	Pom. Jaeger	1	↶	low		HN 60/1
1137	BFA	4	—		following 2 dark rump	424/10
1145	"	11	—		4 land to feed	
1155	"	13	—		3 on water by driftwood, rest following	
1159	Pomarine Jaeger	1	↑	low	sat down on water	
1159	"	1	—		} suddenly appeared to land and feed on garbage	
	BFA	23	—			
1205	Sooty Tern	1	—			
1224	Sooty Tern	1	←			
1230					11 BFA	
1300	BFA	18			around ship	
FF 1305	Sooty	30	⊙		Feeding flock, passed about 1/4 mi. off port beam at this time, first sighted off port bow 1255	
1319	RF Bobby	1	→		2 min	
1330					19 BFA Bill says 30 at one point	
FF 1350	Sooty Tern	300 ± 25			Most of flock high, some to great heights - looked like colony over an island. most most calling. Small nos. feeding	
	Hawaiian Noddy	60 ± 10				
1430					16 BFA	
1430	Sooty Tern	4				
1444	ST	2				
1444	BB	1				



time	species	#	dir.	hgt.	remarks	loc.
1450	Pom. Jaeger	1				
1459	Jaeger	1				
FF 1504	Jaeger	1			} feeding and travelling - Booby and jaeger birds seen previously.	
	BB (ad)	1				
	Sooty Tern	100 ± 10				
	Common Noddy	2				
1506	BFA	12-16				
1517	Laysan	1				
1521	ST	3				
1529	Sh-Petrel sp	1				
1530	Sooty Tern	3			15 BFA	
1535	Wedgetail	1				
1602	RF Booby	1	↘		Imm	
1615	Sterodroma	1			at distance	
1618	Sooty Tern	2	→			ST - 140/15
1618	Porpoise	1	→			CN 2/1
1630	Sooty Tern	3	→	low		S-P 3/2
1634	wedgetail	1	→	"		W - 2/2
1637	"	1	↙	"		RFB - 1
1708	Sooty Tern	1	→	"		PT - 1
1710	Tropic	1	↙			TR - 1
1726	sooty Tern	3	←	50		WTT 3/2
1730	BFA	26	⊙		30 - RBC	153/26
	Laysan	1	ship			
1731	Jaeger	1	↑			
1731	wedgetail	1	→			
1732	Whitetail Tropic	2	↓	150'		
1740	" "	1	↓	100'		
F 1754	Sooty Tern	5	↙	to 100'		
1754	"	2	↑	"		
1755	"	2	↓	"		
1756	"	3	→	"		
1756	Shearwater-Petrel	1	↑	low		
1758	Sooty Tern	3	↙	to 75'		
1752	" "	2	↙			
1804	Pom. Jaeger	1	→			
1805	Sooty Tern	6	↑	low		
1809	" "	2				

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 4, 1965
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0600	BFA	5	follow	—	at dist.	
0601	Fairy Tern	1	→	30'		
0602	wedgetail	1	→	low		
0606					Sunrise	
0622	Sooty Terns	2	←	to 40'		
0625	BFA	6	follow	—		
0628	Sooty Tern	2	←	to 30'		
0630	Laysan	1				
0631	Sooty Tern	1	↑	35'		
0633	Laysan Alb.	3	?	to 75'	distant	
0634	Fairy Tern	1	←	to 10'		
F? 0635	wedgetail	5	←	—	in line	
0636	Sooty Tern	1	←	35'		
0638	"	2	↗	to 35'		
0639	"	1	↗	to 40'		
0641	wedgetail	2	↑	—		
0646	Masked(?) Booby	1	↖	to 25'	at distance	
0648	Fairy Tern	2	↓	"		
0648	Sooty Tern	1				
0648	" "	1				
0649	wedgetail	1	←			
0649	Sooty Tern	2	←			
0650	" "	2	↓			
0654	" "	1	→			
0654	" "	3	←			
0701	BFA Fairy	1	←		6 BFA	
0703	Sooty Tern	3	←			
0705	Fairy Tern	1	←			
0706	Sooty Tern	1	↓			
0708	" "	3	←			
0708	wedgetail	1	←			
0710	Sooty Tern	1	←			
0712	wedgetail	3	↗			
	Sooty Tern	1				
0721	Grayback(?) Tern	1	←	to 20'		
0728	Sooty Tern	2	←	low		
0747	"	2	←	40'		
0748	wedgetail	1	↗	low		
0749	Sooty Tern	1	↓	—		
0754	"	2	→	to 50'		
0758	"	4	←	"		
0800	"	3	↖			
	wedgetail	1				

ST 42/23
L 3/1
FT 5/4
W 14/7
BFB 1
GBT 1

66/35

Nihoa 30E me off rd

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 4, 1965
Pg. # 2



time	species	#	dir.	hgt.	remarks	loc.
0800					7 BFA	
0805	Sooty Tern	1	←			
0805	Wedgetail	1	→			
0806	"	1	←			
0807	Sooty Tern	2	←		Tail short, pointed, flight more uniform than Bulwers, more like Pterodroma; 100 yds ahead	
0807	Sooty Stormt	2	←			
0816	Wedgetail	1	←			
0817	Sooty Tern	1	→			
0818	Wedgetail	2	→			
0818					Whale far ahead	
0825	Petrel sp.	1	←		SSP or Bul - distant	
0825	Shear-Pet	1	↗		distant; banking more like Pterodroma	
0828	Sooty Tern	1	→			
0841	Wedgetail	1	→			
0847	Fairy Tern	1	→			
0858					11 BFA	
0854	Phalarope	1			Got off water ahead, lit again, then	
0922	Sooty Tern	2	→			
0925	Wedgetail	1	→			
0936	Fairy Tern	1	←			
0951	" "	1	→			
0951	G.B. Tern	1	←			
1008	FT	1	↓			
1015	WT	1	↻		light	
1021	ST	1	↑			
1036	FT	1	↓			
1050	FT	1	↘			
1109	ST	2			apparently fishing as it pursued its course to the NNE - made two dives from about 35-40 feet and	
1130	BFA				one aborted dive from about 40 feet to 20 feet.	
					3	
1230	BFA	6	follow			
1300	"	6	45			
1339	Sooty Tern	1	↗	45'	at last!	
1350	Fairy Tern	1	→			
1355	Leach's St. Pet.	1	lit on water		out some distance, but white rump seen	
1404	Laysan Alb.	1	rear		BFA circled close over it once.	

ST 11/8
W 8/7
SSP 2/1
Pet 1
S-P 1
FT 7/7
Ph 1
G.B.T 1
LSP 1
LA 1
39/29

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 4, 1965
Pg. # 3

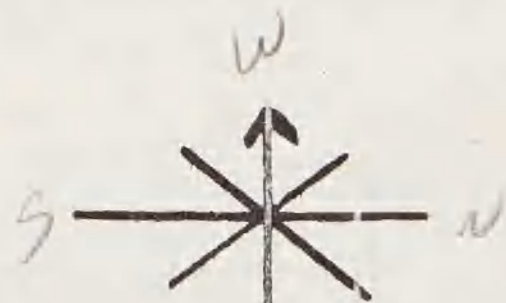


time	species	#	dir.	hgt.	remarks	loc.
1406	Fairy Tern	1	↓			
1420	Fairy Tern	1			Amerman agrees on identification - Bird sat on surface of water? or dabbled just along surface - distant	
1421	Sooty Tern	2				
P 1422	Sooty Tern	60 ± 2			No fish beneath	
	Fairy Tern	9 ± 1				
	Wedgetail	4				
	Christmas Is.	1				
1428	Blue-g. Noddy	1			northern	
1429	Sooty Tern	1				
FF 1430	Sooty Tern	60 ± 10			one bird hovered just above surface, appeared almost to light, wings pulled in - probably accounts for above	
	Wedgetail	3				
	Fairy Tern	13				
1439	Fairy Tern	1				
1450	Laysan Alb.	1	↓			
1451	Sooty Tern	2	↓			
1550	" "	2	↓			
1559	" "	2	↗			
1605	BFA	7	Follow	-	6 landed at garbage thrown overboard.	
1620	"	8	"	-	-	
1634	Laysan Alb.	1	→	± 50'		
1640	wedgetail (?)	1	→	low		
1714	Sooty Tern	3	→		whale far ahead atb	
1714						
1719	Sooty Tern	1	↑	-		
1725	Laysan Alb.	1	→	-		
1727	Sooty Tern	4	→			FT 25/5
1727	H. Noddy	1	↓			ST 148/14
1743	Leach's S. Petrel	1	↓			W 8/3
1747	"	1	←			CIS 1
1750	Sooty Tern	4	→			BGN 1
1753	BFA	9	Follow			LA 4/4
1755	Sooty Tern	1	↓			HN 1
1756	"	2	↑			LSP 2/2
1801	"	4	→			190/26
1801	Laysan	1				34/29
1802					Sunset	66/35
						11/1
						301/91

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 5, 1965
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0600	BFA	6			Following ship	
0608	RFB	1			Adult	
0614					Sunrise	
0635	BFA	7			Following ship	
0645	Sooty Tern	3	←	low		
0647	Blue-faced B.	1	←	low	circling as it moved west - <u>Adult</u>	
0654	Sooty Tern	6	←	low	in three groups of two	
0703	BFA	4			Following ship	
0712	Sooty Tern	4	↙	Low		
0716	Heaches S.P.	1	↙	low		
0722	Sooty Tern	2	↑			
0722	" "	3	←			
0726	" "	1	←			
0726	" "	1	→			
0734	" "	2	↘	200ft		
0735	BFA	5			Following ship	
0735	Laysan A	1	←			
0737	Laysan A	1	←			
0745	BFA	8			4 lit in water	
0802	BFA	6				
0830	"	5	follow			
0836	Sooty Tern	1	↑			
0852	"	2	↖	to 50'		
0900	BFA	6	follow			
0905	"	9	"			
0928	Laysan Alb.	1				
0930	BFA	9	follow			
1000	BFA	5	follow			
1015	G.B. Tern	1	↓			
1025	Sooty Tern	8				
1029	Sooty Tern	4	←			
1031	Sooty Tern	2	←		very pronounced tail streamers.	
1035	" "	1	←			
1035					Whale - 60' long, surfaced behind	
1050					12 BFA	
1107	ST	1	↘			
1130	ST	13			travelly - spread out	
1145	ST	2	↓			

0715 - Making ~~flight~~ preening motions & flight into the neck.

ST 56/17
BF 1
LSP 1
L 3/3
G-B 1

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 5 March 65
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1205	BFA	11	follow	—	—	
1211	Sooty Tern	1	↘	50'	—	ST 125/17
1213	"	2	↓	"	—	LA 5/4
1222	"	1	↘	Low	—	LSP 2/1
1230	BFA	9			Following ship	FT 2/1
1230	Laysan	1			" "	BFB 2/2
F 1240	Sooty Tern	16	←	low	—	BFA 23/1
1243	" "	4	↖	30ft		
1244	" "	3	↖	30ft		
F 1250	" "	7	↘	30ft	Circling as they go	
1303	BFA	9			Following ship	
1310	"	12	follow	—	11 lit, one in air when garbage dumped one old white rump with broken right leg (?)	
1330	Leaches SP	2			Flying around, lite on water three times while I watched	
1330	Sooty tern	2	↘	30ft		
1354	"	2	↗	—	—	
1400	BFA	8	in sight	—	—	
1402	Laysan	2	↖			
1406	Sooty Terns	3	→			
1414	" "	3	↗			
1425			←		Porpoise - about 30-40 - spinners	
1437					15 BFA - group sat - with new birds?	
1439	Sooty Tern	1		50'		
1450	Laysan	1				
1452	Sooty Tern	1				
F 1505	Sooty Tern	25-5				
1505	Fairy Tern	2			leading two flock?	
1508	Sooty Tern	2	↙			
1515	BFB	1	↓		Ad.	
1540					16+? BFA	
1600	BFA				15 min. 23	
1640	BFA				15+?	
1657	Masked Booby	1	↗	to 30'	adult	
1721	Laysan	1				
1729	Sooty Tern	4	↙	to 30'		
1730	Sooty Tern	2	↓	to 30'		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE March 5, 1965
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1740	BFA	15			Following ship	
1757	"	15			" "	
1838	"	17			" "	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE March 6, 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0630	BFA	11				
0639	Petrel sp.	1	←		Bulwers or SS	
0640	Laysan	1				
0650	Shear-Pet	1	←		Possibly Bonin but appeared all black above, white below possibly with black under tail, under throat, much black under wing but good amt. of white also	
0650	Sooty Tern	3	←			
0652	Bonin?	1	←			
0652	Sooty Tern	4	←			
0652	" "	1	←			Pet - 1
0653	Bonin?	1	←			S-P-1
0655	Sooty Tern	5	←			ST- 36/13
0655	" "	2	←			BIIP 11/11
0657	Bonin	1	←			GB - 5/3
0659	Sooty Tern	4	←		1 Imm.	LA - 5/3
0659	" "	3	←			BFA - 11/1
0702	Bonin?	1	←			
0705	Laysan	2			14-16 BFA	
0707	Bonin	1				
0707	Sooty Tern	1				
0710	" "	2				
0710	G.B. Tern	2				
0710	Bonin	1				
0710	Sooty Tern	2				
0713	G.B. Tern	2	←			
0713	Bonin	1	→			
0713	" "	1	↑			
0715	G.B. Tern	1				
0716	Bonin	1	←			
0716	Sooty T.	5	←			
0719	Laysan	2			Total 4	
0719	Bonin	1				
0719	Sooty	2				
0719	Sooty	2				
0719	Bonin.	1				

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 6, 1965
Pg. # 2



time	species	#	dir.	hgt.	remarks	loc.
0722	Bonin	1				
0722	Sooty	1				
0722	Bonin	1				
0722	C.B. Tern	3				ST 16/14
0725	Sooty	1				BIP 22/11
0725	Bonin	1				GB 9/5
0726	"	1				RFB 2/2
0728	Sooty	1				F 1
0728	"	1				CIS 1
0728	LB	2				
0729	Sooty	1				
0729	"	2				
0729	Bonin	1				
0730	RFB	1				
0731	Frigate	1				
0732	GBT	2				
0732	RFB	1	⇒			
0732	Bonin	1				
0733	GBT	1				
0733	Sooty	1				
0733	"	1				
0736	"	1				
0736	"	1				
0740	CIS	1				
0741	Bonin	1				
0742	GB	3				
0742	Sooty	1				
0742	"	1				
0742						36-40 BFA
0744	BOP	1	↓			
0745	"	1	↓			
0748	WTS	1	→			
0751	ST	1				
0751	BOP	1				
0753	ST	2				
0755	BOP	12	←			

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SMITHSONIAN INSTITUTION
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AT SEA DAILY LOG -- E

DATE Monday 6
Pg. # 3



time	species	#	dir.	hgt.	remarks	loc.
0800	BOP	5	↓			
0800	BOP	1	←			
0800	GBT	2	←			BIP 27/11
0802	Bonin	1	↓			GB 14/7
0802	ST	1				ST 1
0802	Wedge T	1				W 4/4
0805	Red-footed B	1	↓			RF 2
0805	Bonin	2	↓			BA? 1
0807	wedgetail	1	←			BFB 2
0808	Bonin	2	↓			
0810	Bonin	2	←			
0812	Bonin	3	↓			
0813	Bonin	2	↓			
0814	wedgetail	1				
0816	Grey BT	2	←			
0817	Bonin	2	↓			
0818	Bonin	2	↓			
0820					→ Feeding flock 2 miles to left of ship Booby, Black feet & Laysans can't tell for sure Bonins	
0822	Bonin	4				
	Birds to numerous				to record.	
0825	BFA	100			Following ship	
0830	GBT	2	↓	low		
0820	Bulweries?	1	←	low		
0832	Blue faced B	1	↓	low		
0832	wedgetail	1	←	"		
0837	GBT	1	↓	"		
0843	"	2	—	—		
0845	"	3	—	—		
0845	BFB	1	—	—		
	BIP	—	—	—	continually in sight	
0846	GBT	2	—	—		
0848	RFB	1	—	—		

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AT SEA DAILY LOG -- E

calm 15% cloudy, mod. swells
3/4 moon waning

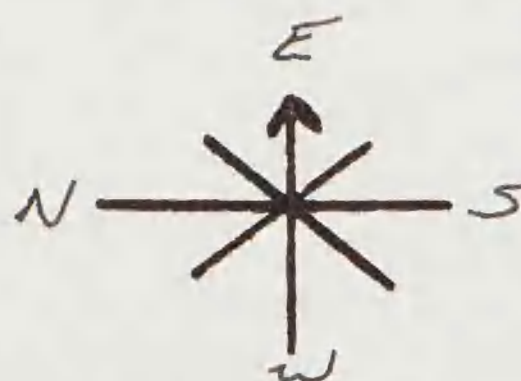
DATE 21 Mar 65
Pg. # 1

time	species	#	dir.	hgt.	remarks	Via Hoeman on watch	loc.
0600					begin birdwatch		
0605	Blackfoot Albatross	3	follow				
0607	Laysan Alb.	1	NW	25'	circled once.		
0610	{ Blackfoot Laysan	{ 3 2	follow	to 30'	Laysans at distance		
0621	{ Blackfoot Laysan	{ 6 3	} follow	to 40'	species mingle at times		
0622	- - -	-	-	-	apparent sunrise (horizon obscured by clouds)		
0624	{ Blackfoot Laysan	{ 9 3	follow	to 40'	exact count difficult, some of both spp. lit together on water can they smell chow cooking?		
0627	Bonin Is. Petrel	1	NW	to 35'	far out		
0630	Sooty Tern	2	W	"	alternately low and high		
0634	Laysan Alb.	1	N	"	not one of ship followers apparently		
0648	Bonin Is. Petrel	1	NW	low	-		
0650	"	1	N	"	-		
F 0652	Sooty Tern	10	W	to 50'	crying, a loose flock splits around us		
0652	Bonin Is. Pet.	1	N	low	-		
0653	Sooty Tern	2	W	to 40'	-		
0657	"	1	SW	to 25'	-		
0700	Blackfoot Alb.	11	follow	to 50'	in sight at present		
0702	Wedgetail	1	S	low	-		
0708	Laysan Alb.	1	-	-	-		
0711	Blackfoot "	18	}		14 Blackfoot + 1 Laysan lit for garbage		
	Laysan "	1	}		4 Blackfeet stayed in air		
0715	Pterodroma	1	E	low	gray back, immaculate white belly + underwings extending up behind head.		
0718	Sooty Tern	2	N	to 50'	far eastern.		
0725	Wedgetail	1	W	low	-		
0727	"	1	NW	"	-		BI P 6/6
0728	Christmas Island Sh.	1	S	"	-		LA 7/7
0735	Wedgetail	1	E	"	-		ST 22/8
0736	Great Frigatebird	1	W	to 200'	in distance		W 6/6
0744	Bonin Is. Petrel	1	SE	to 30'	-		PT 1
0802	Laysan	1	↓				CIS 1
0802	Wedgetail	1					GF 1
0805	Laysan	1	↓				S-P 1
0812	Sooty Tern	1	→				
0823	Sh. Petrel	1			far off port - dark above, white below		
0835	Wedgetail	1			off stern		
0836	Sooty Tern	2	SW				
0837	Bonin	1	S				
0840					15-18 Blackfoots + 1 Laysan lit astern		
0843	Sooty Tern	2	N				

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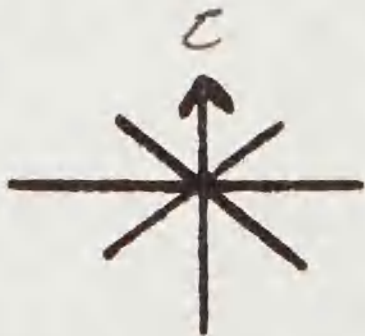
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AT SEA DAILY LOG -- E

DATE 21 March 65
Pg. # 2



time	species	#	dir.	hgt.	remarks	loc.
0904	Wedgetail	1	sw			
0905	Bonin	2	⊖			W 2/2
0908	Sooty Tern	3	sw			B 8/6
0915	Wedgetail	1	sw			S 71/16
0935	Sooty Tern	2	N			L 8/4
0935	" "	2	N			S-P 1
0940	" "	1	N			FT 1
0956	Bonin	1	S			
1002	Bonin	1	↓			
1003	Blackfoot	5			5 following ship	
	Laysan	1			1 " "	
1005	Blackfoot				13 Behind ship	
1009	"				20 Behind ship	
1014	"				25 Garbage thrown over board	
1014	Bonin	2	W	5-15		
1020	Laysan Alb.	2			join crowd following	
1035	Sooty Tern	1	East	10-20		
F 1039	sooty Tern	22	⊙	100-200	high soaring, scattered, flapping too, generally w.	
F 1042	"	6	⊙	very low	moving, not feeding	
F 1044	"	13	W	to 50'	loose flock	
F 1045	"	7	W	"	"	
F 1046	"	6	W	"	"	
1103	Bonin S-P Wedgetail	1	W	low		
1104	Blackfeet				18 following ship	
1109	Sooty Tern	1	N	to 20'		
1112	Blackfeet				27	
1114	Sooty Tern	1	NE	35'		
1115	Laysan S				3	
1115	Blackfeet				31	
1125	"				well over 30 most lit for garbage	
	Laysan				3 lit with Blackfeet	
1132	Fairy Tern	1	W	to 15'		
1143	Sooty Tern	1	W	10-20		
1145	Sooty Tern	1	W	20-30		
1156	Bonin Is. Petrel	1	SE	low		
1159	sooty Tern	1	SW	"		
1200	Bonin Is. Pet.	1	"	"		
1200	Blackfeet	28	2	Follow		
1201	Laysan Alb.	2	W	"		
	Sooty Tern	3	W	"		

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AT SEA DAILY LOG -- E

DATE 21 March
Pg. # 3

	time	species	#	dir.	hgt.	remarks	loc.
F	1207	Sooty Tern	2	C			S 140/16
	1207	Wedgetail	1				W 7/7
	1208	Sooty Shear	1	NE		definite flashes	B 9/9
F	1208	Sooty Tern	5	E			SS 1
	1210	" "	1	E			L 3/3
	1212	" "	1	N			LSP 1
	1212	" "	2	N	low		CIS 1
	1212	" "	1	N			
	1216	Wedgetail	1	N			
	1218	Sooty Tern	3	N	low		
	1220	Wedgetail	1	SW			
	1227	Bonin	1	SW			
	1227	Sooty Tern	1	SW			
	1240	Bonin	1	SW			
	1257	" "	1	W			
	1327	Wedgetail	1				
	1335					Passed 055 32 - ~ 35 Blackfoots following 1/2 mi off port	
	1359	Sooty Tern	2	W			
	1359	Laysan	1				
	1431	S Tern	1	N			
	1431	S Tern	1	N			
F	1436	S Tern	60+	W			
F	1443	Sooty Terns	50+	N			
	1443	" "	1	N			
	1450	Heech S.P.	1	W			
	1500	Bonin Petrel	1				
	1500	Wedgetail	1	N			
	1505	Bonin Petrel	1	W			
	1512	Bonin Petrel	1	W			
	1516	Wedgetail	1	W			1745 wedgetail
	1532	Sooty Tern	2	N			
	1600	Bonin	1	E			
	1600	Bonin	1				
	1616	Bonin	1	W			
	1616	Laysan Alb.	1	NW			
	1621	Bonin	1	NW			
	1628	" "	1	N			
	1632	" "	1	N			
	1635	Sooty Tern	2	NW			
	1718	Sooty Tern	1	N			
	1731	Bonin	1	S		25+ Blackfoot, 2 Laysan	
	1735	Laysan	4	Follow			
	1738	Emas Island	1	W			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE March 22
Pg. # 1

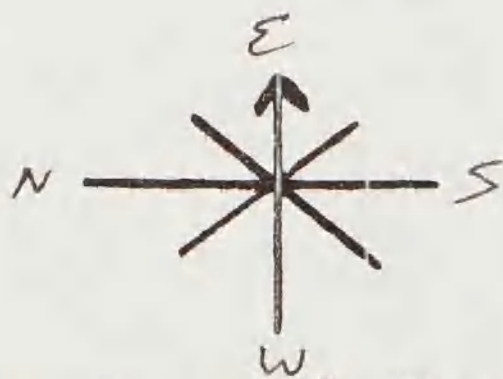
time	species	#	dir.	hgt.	remarks	loc.
0635	Blackfoot				6 following ship (slight rain)	
FF 0650	Sooty Tern	10	SE	5-20	feeding flock	
	Shearwater	5	S			
0655	Red-footed-B	1	N	25	Immature bird	
0700	Wedgetail	1	S	10		
0701	Wedgetail	1	N	10ft		
0702	"	1	W	10ft		
0702	"	3	S			
0702	"	1	W			
0703	Sooty Tern	1	W			
0704	Wedgetail	1	W			
0705	"	3	S			
"	Sooty Tern	1	S			
"	Red foot	3	S			
"	wedgetail	1	S			
0706	"	2	S			
0708	Bonin	1	N			
0708	Blackfoot				8 following ship	
0709	Wedgetail	3	S			
0711	"	4	SW			
0712	"	1	W			
0714	Sooty Tern	1	E	50		
0715	"	1	E	50ft		
0716	Wedgetail	1	E	5-10		
0717	"	1	N	5-10		
0723	"	1	SE	5-10		
0724	"	1	SW	"		
0728	Redfoot	1	W	5-15		
0728	wedgetail	1	W	"		
0729	"	1	W	5-10		
0733	Bonin	1	W	5-15		
"	Sooty Tern	1	W	"		
0735	wedgetail	1	SE	5-15		
0740	Pterodroma	2	NW	5-15		
0742	Sooty Tern	1	S	50ft		

ST 16/7
RFB 5/3
S-P 5/1
W 29/19
B 2/2
PT 2/1
59

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 22
Pg. # 2



time	species	#	dir.	hgt.	remarks	loc.
0743	Laysan	1	W	5-20		
0747	Wedgetail	1	W	"		
0750	"	3	S	5-20		
0755	Puffinus Elm. Shear	2	N		CIS or SS type - no arcing	
0758	Fairy Tern	1	W	30ft		
FF 0758	Sooty Tern	90/10			distant off str	
	Wedgetail	15/5				
	Frigate	2				
	Red foot	1			Ad.	
0800					17 Blackfoot	
0804	Wedgetail	1	W			
0805	Sooty Tern	1	NW			
0806	Wedgetail	2	S			
0806	"	1	W	low		
0813	Puffinus Elm. Shear	1	N		CIS or SS type - no arcing, quick wing beats	
0819	Puffinus	2	NW		} Sooty Shear type, long low arcs w much flapping - } too far to see underwing	
0819	"	1	NW			
0824	Wedgetail	1	E			
0824	"	1	E			
0824	Laysan	1				
0827	Puffinus	1			} Sooty Shear type	L 3/3
0827	"	2	NW			W 27/10
0827	"	1				P 11/8
0827	"	1				FT 3/2
0828	Fairy Tern	2				ST 96/5
	Tern sp.	2-3				F 2/1
0828	Sooty Tern	3	S			RF 2/2
0828	Bonin	1	NW			Tern 3/2
0831	Tern sp	1	S	low	distant	B 1
0833	Sooty Tern	1	NW			SS 2/2
0842	Wedgetail	1	E			BIB 1
0842	Laysan	1			on water	<u>151</u>
0845	Sooty Shear	1	W		close	
0845	" "	1	W		"	
0846	Wedgetail	1	N		Dark phase	
0850	Sooty Tern	1	E			
0850	Red-foot	1	E		Ad	
0852	Brown Booby	1	W		Imm	

Note slightly lighter area near tip of upper wing; wingbeats similar to CIS in horizontal flight, slightly slower + more of wing used

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 22
Pg. # 3



time	species	#	dir.	hgt.	remarks	loc.
0855	Sooty Tern	1	E	low		
0858	Puffinus	1			SS type - no flapping, long glides	
0902	Sooty Shear	1	W			
0902	" Tern	1	W			
0905	Laysan	1				
0906	Wedgetail	1	E			
0910	"	1	E			
0910	C. Noddy	1	W			
0910	Brown Booby	1	W		Ad.	
0917	Puffinus	1	NW		SS type	
0917	Sooty Shear	1	NW		very high arcs, meandering rather than straight line flight	
0918	Puffinus	1	W?		SS type	ST 5/5
0920	"	1	NW		"	P 12/12
0920	"	1	NW		"	SS 12/12
0923	Wedgetail	1	W		off stern	L 2/2
0927	Puffinus	1	NW		SS?	W 5/5
0927	"	1	NW		SS?	CN 1
0929	"	1	"		"	BIB 2/2
0929	"	1	"		"	S-P 1
0929	SS	1	W		"	FT 1
0935	Sooty Tern	1	W			<u>41</u>
0935	SS	1	NW		flying like wedgetail, higher more regular arcs	
0935	Puffinus	1	NW		SS type	
0938	SS	1	W		close	
0940	"	1	NW			
0942	"	2	NW			
0946	Shear-Pet	1	E		possibly Bonin	
0948	Fairy Tern	1	N			
0951	SS	1	NW		little flapping, long arcs	
0954	"	2	NW		" " "	
1025	S/SB S	1				
1025	Laysan A	1			looked more like slender-billed S. Underwing not seen clearly.	
1032	ST	1				
1036	SS	1	NW			
1036	WT	1	W		light	
1036	ST	1	W			
1042	WT	1	W		light	
1050	S/SB S	1	E			
1051	B. B.	1	W		light	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE Mar. 22
Pg. # pg. 41



time	species	#	dir.	hgt.	remarks	loc.
1053	GBT	2	W			
1053	ST	2	N			
1054	ST	2				
1054	WT	1				
1100	ST	60±	W		Feeding flock	GBT 2/1
	RFB	4-5				ST 74/9
	Sh. Pet	10-15				W 12/12
1102	ST	2	N			RFB 4/1
1104	WT	1	W			S-P 12/1
1106	Sh sp	1	E			Sh 1
1110	BFA	20 min	E			L 3/2
1125	LA	2	E			FT 2/2
1127	WT	1	E			SS 5/5
1141	ST	1				B 1
1200	WT	1	E			Pet 1
1210	1210	Sooty tern	1	SW		
	1212	Sooty tern	3	W		
	1215	Wedgetail	1	N		
	1216	"	1	SW		
	1228	Sooty tern	2	SW		
	1234	Wedgetail	1	E		
	1242	Fairy Tern	1	NW		
	1246	Wedgetail	1	W		
	1252	Sooty Shear.	1	W		
	1307	Sooty Tern	1	W		
	1330	Wedgetail	1	W		
	1334	Sooty Shear.	1	W		
	1341	Fairy Tern	1	W		
	1343	Sooty Shear.	1	SW		
	1412	Sooty Shear	1	NW		
	1413	Wedgetail	1	NW		
	1425	Laysan	1			
	1432	Bonin	1	SW		
	1442	Sooty Shear	1	NW		
	1442	Petrel	1	NW		
	1445	Wedgetail	1	SW		
	1449	"	1	W		

GBT 2/1
ST 74/9
W 12/12
RFB 4/1
S-P 12/1
Sh 1
L 3/2
FT 2/2
SS 5/5
B 1
Pet 1

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Bulwers or Sooty

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE March 23
Pg. # 5



time	species	#	dir.	hgt.	remarks	loc.
1452	Phalarope	1			lit on water	
1455	G. B. Tern	2	N			
1513	wedgetail	1	W			
1513	"	1	N			
1515	Fairy Tern	1	E			
1516	wedgetail	1	NW			
1520	Laysan	1				
1522	wedgetail	1	W		Small, gray	Ph 1
1522	Fairy Tern	1	E			G13T 14/8
1525	wedgetail	2	NW			W 19/17
1527	Fairy Tern	1	NE			FT 7/7
1527	wedgetail	1	E			L 2/2
NF 1531	Grayback	5	N		string	ST 1
1532	wedgetail	1	W			SS 2/2
1532	Grayback	2	N			Tern 3/1
1535	"	1	N			49
1535	Laysan	1			2 total	
1540	Grayback	1	N			
1540	"	1	N			
1546	"	1	N			
1546	wedgetail	1	N			
1546	"	1	E			
1549	Fairy Tern	1	NW			
1552	wedgetail	1	W		Dark phase	
1556	"	1	E			
1607	Fairy Tern	1	W			
1610	wedgetail	2	N			
1611	Sooty Tern	1	WN	30		
1616	Grey BT	1	N	20		
1620	Fairy Tern	1	W	32'6"		
1625	Sooty ShearW	1	W			
1630	" "	1	N			
"	wedgetail	1	N			
1632	"	1	W			
1635	Fairy Tern	1	W	30		
1635	wedgetail	1	N			
1645	"	1	E			
1650	"	1				
1650	Terns	3	} 10-15		Together	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 22 March 65
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time	species	#	dir.	hgt.	remarks	loc.
1658	Wedgetail	1	NW			
1702	"	1	E			
1705	"	1	E			
1710	Laysan	1				
1710	Blue-faced	1			Ad.	W 19/15
1713	Shearwater	1	NW		SS?	L 1
1714	"	1	NW		"	BFB 1
1714	"	1	NW		"	
1715	wedgie	1	E	low		P 4/4
1715	"	1	NW	"		B 2/2
1718	Bonin	1	W	10-15		SS 1
1725	Wedgetail	1	W			GBT 3/1
1727	"	3	W	10-15		ST 1
1728	Sooty Sh.	1	N	5-15		32
1728	Wedgetail	1	N			49
1732	"	1	N			117
1732	"	1	N			41
1732	"	1	E	5-15		151
1736	"	1	E	5-15		59
1738	Grey BT	3	N			20
1738	Bonin	1	NE			
1738	Wedgetail	1	E			
1740	Shearwater	1	NW		SS type	
1741	Wedgetail	2	E			
1744	"	1	E?			
1745	"	1	N			
1750	"	2	N			
1755	Sooty T	1	N			
~ 1805					Sunset	

Total - 469 / 205

SPA 219 / 145

Term - 232 / 53

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 23 March
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0700	Blackfoot				5 following ship	
0703	Wedgetail	1	N			
0705	Shearwater Petrel	2	W			
0705	Wedgetail	1	W			
0708	"	1	W			
0709	"	1	W			W 27/19
0710	Sooty Tern	1	N			S-P 2/1
0712	Sooty Storm P	1	W	5-15		ST 6/4
0713	Sooty Shearw.	1	W	5-15		SSP 3/3
0715	Wedgetail	1	W			SS 5/3
0716	Wedgetail	1	E			LSP 1
0722	"	1	W			FT 1
0722	Sooty T	1	W			P 2/2
0727	Sooty Shear	3	N			
0730	Sooty Storm P	1	W			
0736	Wedgetail	1	W			
0737	Hech S.P.	1				
0738	Sooty Shear	1	W			
0742	Fairy Tern	1	W			
"	Sooty Tern	1	W			
0745	Wedgetail	1	W			
0748	"	1	W			
0748	Sooty Tern	3	W			
0749	Puffinus	1				
0750	Wedgetail	2	W			
0751	"	1	W			
0752	"	1	W			
0753	"	2	W			
0754	"	1	W			
0755	"	3	W			
0755	"	2	W			
"	"	1				
0757	"	4				
	Puffinus	1				
	Sooty Storm P	1				

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SMITHSONIAN INSTITUTION
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AT SEA DAILY LOG -- E

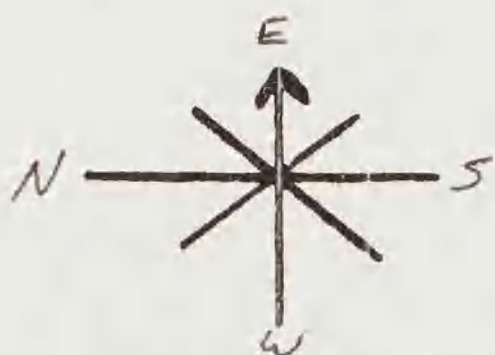
DATE 23 March
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0758	Sooty Tern	2				
	wedgetail	1				
0759	Sooty Shearwater	1	N			ST 5/3 W 54/26 SS 2/2 CN 1 RFB 1
0759	Wedgetail	1				
0800	Common Noddy	1	N			
0801	Wedgetail	3			1 dark phase	SSP 2/2 P 5/4 SP 4/4 HN 5/2
0801	Red-footed B	1			Ad	
0801	Sooty St. Pet.	1				
0802	Wedgetail	2				
0802	shearwater	1				
0802	wedgetail	1				
0804	"	2				
0805	"	2				
0806	"	1				
0807	"	1				
0810	Blackfoot Alb	6			in sight following	
0811	wedgetail	3			to port	
0813	"	2	NW			
0815	storm Petrel	1			light rump + light patches on undersides of wings (?)	
0816	wedgetail	2				
0816	Sooty St. Petrel	1	W			
0817	wedgetail	2	NW			
0818	wedgetail	4	WNW	low	loose, not really together, but I'm tired of writing 'em separately!	
0820	Sooty (?) shear.	1	W			
0820	wedgetail	1	W			
0822	"	3	W			
0827	storm Petrel	1	W		seems all dark	
0823	wedgetail	4	E-W		loose	
0824	Sooty Tern	1	NW			
0824	Haw. Noddy	4	"			
0824	Sooty Shear	1	"			
0825	Wedgie	2	W			
0826	"	3	W			
0827	storm Petrel	1			seems all dark	
0827	wedgetail	3				
0828	storm Petrel	1			seems all dark but dist. far, day dark	
0830	Sooty Tern	2	E?			
0832	shearwater	2	WNW			
0833	wedgetail	1	"			
0833	Haw. Noddy?	1		low		
0834	wedgetail	2	W			
0835	wedgetail	3				
0836	shearwater	1			one arc + goddam bird vanishes!	
0838	wedgetail	3			one dark phase - not together	
0839	"	1				
0840	"	1	WNW			

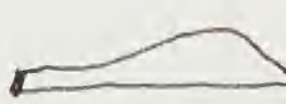
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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 23 MARCH '65
Pg. # 3



foul, damn day

time	species	#	dir.	hgt.	remarks	loc.
0848	wedgetail shear	3	W	to 20'		
0849	wedgetail	1	NW	low		
0851	"	1				
0852	Blackfoot Albatross	8			come on 4 in water, 4 more in air follow ship	
0855	wedgetail	3	NW	low	each 1/2 minute apart actually	
0859	"	1	NE	"		
0900	Haw. Noddy	2	N	"		
0901	Sooty Tern	1				
0914	wedgetail	1	N	"	Kaula in sight 	
0915	"	1	"	"		
0920	"	2				
0923	"	1	N			
0926	Fairy Tern	1				
0930	Blackfoot Alb.	9			} follow	
	Laysan Alb.	2				
0931	Sooty Tern	2				
0942	"	1	NW			
0943	wedgetail	1	"	low		
0944	Sooty Tern	2	N			
0947	wedgetail	1				
0947	Brown Booby	1	W	to 15'	ad.	
0948	Fairy Tern	1				
0955	? Albatross	1			size of and generally marked like Laysan but quite light "salt + peppery" all across back + tops of wings	
0956	Sooty Tern	4				
0957	"	3	NW			
NF 1000	Sooty Tern	20	2 N		stream	W 20 19/15
1002	wedgetail	1	N			HN 2/1
1002	G.B.Tern	1	N			ST 42/12
1003	"	1	N			FT 2/2
1003	G. Frigate	1	NW	150'		L 2/1
1005	wedgetail	1	NW			BB 1
1007	S. Tern	1	NW			Alb. 1
1012	"	1	W		Kauai	G.B.T 5/5
1012	"	1	N		Michau in sight	GP 1
1013	"	2	E			P 2/1
1013	"	4	N			
1014	wedgetail	1	W			
1016	Shearwater	2	NW		SS?	
1016	G.B.Tern	1	N			
1020	"	1	N			
1020	"	1	N			
1031	wedgetail	1	W			

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AT SEA DAILY LOG -- E

DATE March 23, 1965
Pg. # 4



time	species	#	dir.	hgt.	remarks	loc.
1035	BG Noddy ?	1	NE			
1036	Wedgetail	1	N			
1036	"	1	N			
1037	"	1	W			
1037	Sooty Shear	1	NW		close	
1040	Brown Booby	1	NE		Ad.	
1041	Sooty Tern	1	E			BGN? 1
1043	Noddy sp.	2	NE		H-KA; C-RBC	W 17/17
1043	G.B. Tern	1	N			SS 1
1043	Fairy Tern	1	NW			BB 1
1046	"	1	W			ST 8/5
1055	Wedgetail	1	NW			Nod 2/1
1100	"	1	SW			GBT 1
1107	Frigate	2	⊙		near Kaula	RF 6/5
1110	Sooty Tern	1	E		} Two Kaula?	GP 5/4
1111	"	2	SE			CN 2/1
1112	Frigate	1	⊙	250'	Imm, over head	BGN 1
1121	Wedgetail	1	W			
1122	"	1	NW			
1125	"	1	W?			
1129	Fairy Tern	1	N		appeared to be feeding	
1130	Wedgetail	1	NW			
1135	"	1	W			
1137	"	1	N			
1204	Frigate	1			Immature feeding behind ship	
1204	Wedge tail	1				
1220	"	1				
1224	Fairy Tern	1	N	5-20		
1232	Common N	2	N		feeding beside the ship	
"	Blue G Noddy	1	N			
"	Fairy Tern	2				
"	Sooty Tern	3	W			
1240	Frigate	1			Following fishing lure (again)	
1240	Wedgetail	1				
1252	"	1	W			
1253	Sooty Tern	1	W			
1255	Wedgetail	1	W			
1300	"	1	W			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 23 March
Pg. # 5

time	species	#	dir.	hgt.	remarks	loc.
1302	Wedgetail	1				
1304	Sooty Tern	1	NW	—		
1306	Fairy Tern	1	E	—		
1307	Common Noddy	1	W			
1309	Wedgetail	1	W	—		
1310	"	1	W			
1312	Sooty Shear.	1	NW			
1313	Wedgetail	1	NW			
1313	Great Frigatebird	1	W	250'	Imm. ♀	
1322	Fairy Tern	1	NW			
"	Wedgetail	1	N			
1324	"	1	NW			
1334	"	1	NW			
1340	"	1	W			
1342	Brown Booby	1	E			
1347	Wedgetail	2				
1352	"	1	WNW			
1355	Haw or Noddy T.	1				
1400	Wedgetail	1	N			
1402	Sooty Tern	1	W			
1415	Sooty Tern	2	NW			
1420	Sooty Shear	1	NW			
1420	Sooty Shear?	1	NW			
1421	Wedgetail	1	N			
1422	Red-foot	1	NE			
1425	Wedgetail	1	NW			
1430	Flock					
1437	Wedgetail	1	N			
FF 1440	"	35	5			
	Sooty Tern	30	5			
	Fairy Tern	4				
	H. Noddy	40	5			
	G.B. Tern	60	3			
	Brown Booby	2			Ad.	
	Red-foot	2				
	WT					

W 50/15
ST 34/4
FT 6/3
CN 1
SS 2/2
GF 1
BB 3/2
HN 4/2
P 1
RF 3/2
GB 10/1

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

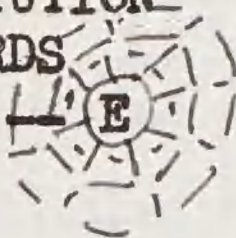
DATE 23 March
Pg. # 6



time	species	#	dir.	hgt.	remarks	loc.
1440	Puffins	1	NW		SS type, appeared all dark	
1448	Frigate	2	N			
1449	Brown body	2	SE			
1450	Wedgetail	1	E			
1452	Sooty Tern	2	W			P 3/3
1500	Gray Back	1	N			F 2/1
1504	Sooty Tern	1	NW			BB 3/2
1504	Sooty Tern	2	NW			W 12/2
1504	Wedgetail	1	NW			ST 8/5
1504	Sooty Shear?	1	NW			GB 1
1507	Sooty Shear?	1	NW			SS 6/4
1509	Wedgetail	1	NW			N 1
1514	Wedge tail	1	NW			BF 1
1535	Sooty Shear.	1	NW			RF 4/4
1538	Brown Body	1	NW			Booby - 12/3
1539	Sooty Shear.	1	NW			
1541	Sooty Shear.	2	NW			
1541	Wedgetail	1	NW			
1545	Sooty Tern	1	NE			
1550	Newells	1	NW			
1552	Blue-faced	1	⊙			
1554	Wedgetail	1	N			
1555	Sooty Tern	2	NW			
1557	Red-foot	1	E			
1558	Sooty Shear.	1	NW			
1558	Wedgetail	1	NW			
1600	flock of				⊙ Brown + red-foot or blue-faced 10-15 birds	
1604	WT	1				
1606	RFB	1			ad WP	
1607	WT	1				
1608	RFB	1				
1609	WT	1			dark phase	
1610	WT	1				
1611	RFB	1				
1612	WT	1				

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG



DATE Mar. 23 56
Pg. # 857



loc.

time	species	#	dir.	hgt.	remarks	loc.
1614	WT	1				
1614	WT	1				
1617	RFB	1				
1618	RFB	1				
1620	WT	1				
1621	SS	1				WT 18/17
1622	BB	1	N		towards Kauai - ad.	RFB 5/5
1622	WT	1	N			SS 9/9
1623	WT	1	N			BB 3/3
1624	WT	1	N			GB 1
1624	WT	1	N			Boo 1
1625	WT	1				P 1
1625	GBT	1				Tern 3/1
1626	SS	1	NW			ST 2/1
1626	WT	1	NW			
1626	WT	1	NW			
1626	SS	1	NW			
1627	SS	1				
1632	WT	1				
1633	Booby sp	1			RFB	
1634	Ch. sp.	1				
1637	RFB	1	W		imm/subadult	
1644	WT	1	W			
1646	WT	2				
1649	RFB	1			RFB	
1651	WT	1				
1656	SS	1				
1659	WT	1			dark phase	
1700	ST	2	NW			
1700	SS	1	NW			
1704	WT	1				
1704	WT	1				
1705	Tern sp	3				
1705	BB	1	W		ad toward Kauai	
1706	BB	1				
1706	SS	1				
1707	SS	1				
1710	RFB	1	W		ad	
1710	SS	1	W			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE Mar. 23
Pg. # 8



time	species	#	dir.	hgt.	remarks	loc.
1714	Pt? sp?	1	W		Appeared light gray above, white below	
1715	RFB	2	NW		two ad Kaui - ad WP	
1716	RFB	1				
1716	SS	1				
1717	WT	1	NW		— tow. Kaui	
1722	Mottled Petrel	1	NW			
1723	RFB	1			No question - Seen very well - <u>RFB</u> - Possibly	
1723	ST	1			1714 bird was same species.	
1724	SS	1			Seen in good light, sun at our back - About	
1726	SH/P	1			100 ²⁰⁰ yds out - Black-patch on belly seen distinctly. Uniform	
1730	RFB	1			light gray above with dark W, Brownish	
1731	WT	1			WP ad marks on underwing	
1732	SS	1	NW			
1736	SS	1	NW			
1739	SS	1				
1739	SS	1	←			
1738	SS	1	↓			PT 1
1739	SS	1	↓			RF 13/8
1740	WT	1	↓			SS 29/20
1740	WT	1	←			WT 7/7
1741	RFB	1				MP 1
1741	Sh. sp.	1				ST 1
1742	SS	1				S-P 1
1742	SS	1	←			
1743	SS	1				P 1
1744	WTTB	1				WTT 1
1744	SS	1				GB 3/1
1746	SS	1	←			FT 1
1747	SS	1				
1749	WT	1	←			
1751	GBT	3				
1751	Tern sp?					
1754	FT	1				
1750	RFB	1	N		ad WP	
1600	RFB	1				
1601	SS	1				
1609	SS	2				
1610	RFB	5	N			
1610	SS	5				
1610	WTS	1				
1612	SS	2				
1614	WTS	1	NW			
1615	SS	3				
1620	SS	2				

NF
NF

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7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 23 March
Pg. # 9

time	species	#	dir.	hgt.	remarks	loc.
1821	SS	2				
1822	WTS	1				
1823	Sooty Shear.	1	NW			
1825	Sooty Shear.	1	NW			
1826	Sooty Tern	1	E			
1828	Sooty Shear.	1	NW			
1829	Sooty Shear.	2	NW			
1830	Sooty Shear.	1	NW			
1831	Sooty Shear.	1	NW			
1835	Sooty Shear	2	N			
1835	Wedgetail	1	N			
1835	Sooty Shear	1	NE			
1837	Sooty Shear.	1	NW			
1840	Red-foot	1	NW			
1843	WT Tropicbird	1	E			

SS - 13/10
WTS - 2/2
ST 1
RF 1
WTT 1

DATE Wed. 3 MAR '65

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200																
0300																
0400																
0500																
0600																
0700																
0800																
0900																
1000																
1100																
1200	21°-18 N	157°-57 W	Few clds	15	1022	76	66	70		3	1	090/8/7	76	18	090	282/11
1300	21°-21 N	158°-37 W	"	"	1021	75	66	74		2	1	060/9/7	76	16	060	282/11
1400	21°-24 N	158°-49 W	"	15	1021	74	67	78		2	1	060/9/7	76	20	050	282/11
1500	21°-27 N	158°-59 W	"	15	1020	73	65	77		2	1	060/9/7	76	22	060	282/11
1600	21°-29 N	159°-10 W	"	15	1020	73	65	77		2	1	060/9/7	75	19	060	282/11
1700	21-32 N	159-21 W	"	15	1020	72	66	82		2	0	045/8/7	75	18	045	282/10.5
1800	21-32 N	159-33 W	"	20	1020	72	66	82		2	0	045/8/7	75	21	070	282/10.5
1900	21-35 N	159-45 W	"	20	1020	72	63	73		1	0	045/8/7	75	21	070	282/10.5
2000	21-37 N	159-57 W	"	20	1021	72	63	73		1	0	045/8/7	75	19	070	282/11
2100	21-39 N	160-09 W	"	15	1022	72	63	73		1		045-6-7	75	18	045	289-10.5
2200	21-42 N	160-20 W	"	15	1022	72	63	73		1		045-6-7	75	18	045	289-10.5
2300	21-45 N	160-31 W	"	15	1022	72	63	73		1		045-6-7	75	18	045	289-10.5
2400	21-49 N	160-41 W	"	15	1022	72	63	73		1		045-6-7	75	18	045	289-10.5

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE THUR, 4 MAR, '65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TOT SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	21°-56N	161°-01W	clear	15	1022	72/66	63	73	1	1	050/7/5	75	17	080	286/10.5
0200	21°-59N	161°-13W	clear	15	1022	72/66	63	73	1	1	050/7/5	75	16	075	286/10.5
0300	22°-03N	161°-24W	"	15	1022	72/66	63	73	1	1	050/7/5	75	15	065	288/10.5
0400	22°-06N	161°-36W	"	15	1022	72/66	63	73	1	1	050/7/5	75	15	060	288/10.5
0500	22°-08N	161°-47W	ffy cldy	15	1021	72	63	73	8	6	050/7/5	75	18	080	288/11
0600	22°-14N	162°-02W	" "	15	1021	72	61	69	3	0	050/7/5	75	17	080	288/11
0700	22°-17N	162°-13W	" "	15	1022	73	66	77	1	0	050/7/5	75	17	080	288/11
0800	22°-22N	162°-24W	" "	15	1022	74	67	65	1	0	050/7/5	75	18	080	288/11
0900	22°-25N	162°-37W	Few cldy	15	1022	74	68	71	1	0	090-6-4	74	12	110	289 11.5
1000	22°-28N	162°-50W	"	15	1022	78	68	71	1	0	090-6-4	74	12	110	289 11.5
1100	22°-31N	163°-02W	"	15	1022	78	68	71	1	0	090-6-4	74	12	110	289 12
1200	22°-34N	163°-14W	"	15	1022	78	68	71	1	0	090-6-4	74	12	110	289 12
1300	22°-38N	163°-26W	"	15	1020	76/68	63	56	1	1	070-7-4	73	11	110	288 - 11.5
1400	22°-41N	163°-39W	"	15	1019	77/68	64	63	1	1	070-7-4	73	9	125	288 - 11.5
1500	22°-45N	163°-51W	"	15	1019	78/68	63	60	1	1	070-7-4	73	10	115	288 - 11.5
1600	22°-48N	164°-03W	"	15	1019	78/68	63	60	1	1	070-7-4	73	10	120	288 - 11.5
1700	22°-51N	164°-15W	"	20	1019	76	62	63	8	0	070/8/3	73	7	120	288 11.5
1800	22°-55N	164°-26W	"	20	1020	73	60	62	1	0	070/8/3	73	7	120	288 11.5
1900	22°-58N	164°-38W	"	20	1020	73	61	64	1	0	070/8/3	74	7	120	288 11.5
2000	23°-02N	164°-50W	ffy cldy	15	1020	73	61	64	5	2	070/8/3	74	5	120	288 12
2100	23°-05N	165°-00W	Few cldy	15	1020	72	61	67	1	0	comf	74	5	120	289 - 11
2200	23°-08N	165°-12W	"	15	1020	72	61	69	1	0	"	74	5	120	289 - 11
2300	23°-11N	165°-23W	"	15	1020	72	61	69	1	0	"	74	5	120	289 - 11
2400	23°-15N	165°-34W	"	15	1020	72	61	69	1	0	"	74	5	120	289 - 11

REMARKS:

XRAY
 ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
 WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
 12-5-63

DATE FRI - 5 MAR. 1965

TIME	LAT (N)	LONG (W)	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	23°-17' N	165°-44'	Few clds	15	1020	72.66	59	65	1	0	Conf		9	130	288-11
0200	23°-20' N	165°-55'	"	15	1019	72.66	59	65	1	0	"		8	140	288-11
0300	23°-24' N	166°-06'	"	15	1019	72.66	59	65	1	0	"		6	130	288-11
0400	23°-27' N	166°-17'	"	15	1019	72.66	59	65	1	0	"	74	7	135	288-11
0500	23-32 N	166-31 W	"	15	1018	72	59	65	2	0	"	74	6	150	292-10.5
0600	23-32 N	166-42 W	"	15	1018	72	59	65	1	0	"	74	6	150	292-10.5
0700	23-41 N	166-54 W	"	15	1019	72	59	65	1	0	"	74	10	150	292-11
0800	23-45 N	167-05 W	"	15	1019	72	59	65	2	0	"	74	11	150	292-11
0900	23-46 N	167-14 W	"	15	1019	74	65	74	1	0	320	74	12	180	294-11
1000	23-50 N	167-25 W	"	15	1019	74	65	74	1	0	320	74	12	180	294-11
1100	23-54 N	167-36 W	"	15	1019	74	65	74	1	0	320	74	12	180	294-11
1200	23-58 N	167-47 W	"	15	1019	74	65	74	1	0	320	74	12	180	294-11
1300	24-04	167-54	"	20	1017	74.66	65	74	1	0	330-9-10	73	12	160	291-10.5
1400	24-08	168-06	"	20	1016	74.66	65	74	2	1	330-9-10	73	14	175	294-10.5
1500	24-13	168-18	"	20	1016	74.66	65	74	1	0	330-9-8	73	15	170	294-10.5
1600	24-20	168-35	"	20	1016	74.66	65	74	1	0	330-9-8	73	16	180	294-10.5
1700	24-22 N	168-45 W	"	20	1016	74	65	74	2	0	Conf	73	11	180	294-11
1800	24-26 N	168-56 W	"	20	1016	74	65	74	3	1	330/9/8	73	13	180	294-11
1900	24-31 N	169-08 W	"	20	1016	74	65	74	3	1	330/9/8	73	10	190	292-11.5
2000	24-35 N	169-19 W	"	20	1016	74	65	74	2	0	330/9/6	73	10	190	292-11.5
2100	24-40 N	169-30 W	Clear	20	1016	72	69	91	0	0	330-8-5	73	10	200	292-11
2200	24-44 N	169-41 W	"	20	1016	72	69	91	0	0	330-8-5	73	10	200	292-11
2300	24-48 N	169-52 W	"	20	1016	72	69	91	0	0	330-8-5	73	10	200	292-11
2400	24-52 N	170-04 W	"	20	1016	72	69	91	0	0	330-8-5	73	10	200	292-11

REMARKS:

XRAY
 ALL TIMES LOCAL (~~WILSON~~); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
 WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
 12-5-63

DATE SAT 6 MAR 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	24-56	170-15	clear	15	1015	72.69	68	86	0	0	330-8-5	73	14	185	292-11
0200	25-01	170-26	ptly cldy	10	1014	72.67	68	86	4	4	330-8-5	72	16	210	292-11
0300	25-05	170-37	Rain Squalls	1	1014	69.67	66	90	10	10	330-8-5	72	28	240	292-11
0400	25-08	170-48	Squally	6	1013	69.67	66	90	7	6	330-8-5	72	15	210	292-11
0500	25-10	170-51	Few clds	10	1013	72	68	86	1	0	Cont	72	18	210	292-10.5
0600	25-13	171-02	"	10	1013	72	68	86	4	1	330-8-5	72	18	210	292-10.5
0700	25-19	171-13		15	1013	72	68	86	5	2	330-8-5		15	210	311 10.5
0800	25-26	171-22													
0900															
1000															
1100															
1200															
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															

REMARKS:

XRAY

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE 20 MAR 1965 (SAT.)

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	Air Temp			HUMID %	TOTAL TL SKY	opaque OPA SKY	swell WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
						DRY B	DEW PT	WET B								
0100	27-14	174-37	clear	10	1007	68.00	55	63	63	1	1	240/6/10	70	26	285	120/11
0200	27-08	174-26	ptly cldy	10	1007	68.61	57	61	61	6	5	240/6/10	70	34	270	"
0300	27-02	174-15	cldy	10	1006	69.00	54	59	59	8	7	240/6/10	70	27	290	"
0400	26-57	174-04	"	10	1006	69.61	56	64	64	9	9	260/7/10	70	25	290	"
0500	26-57	173-53	"	10	1006	69	58	64	64	7	6	270/7/10	69	25	280	"
0600	26-42	173-43	ptly cldy	15	1006	69	56	64	64	7	5	270/7/10	69	25	280	"
0700	26-36	173-32	"	15	1007	68	58	71	71	5	3	270/7/10	69	25	280	"
0800	26-30	173-21	"	15	1008	68	58	71	71	5	3	270/8/10	69	25	280	"
0900	26-26	173-12	cldy	15	1008	69.62	58	68	68	7	6	270/9/16	70	25	280	118/11
1000	26-21	173-03	cldy	15	1009	69.62	58	68	68	8	7	270/9/18	71	25	280	"
1100	26-11	172-54	cldy	15	1009	69.62	58	68	68	8	7	270/9/18	71	25	280	"
1200	26-03	172-44	cldy	15	1010	69.62	58	68	68	8	7	270/9/18	71	25	280	"
1300	25-58	172-33	ptly cldy	15	1010	70.62	57	64	64	5	4	270/9/19	71	28	285	"
1400	25-53	172-22	Few clds	15	1009	73.62	54	59	59	3	2	270/9/20	71	30	290	"
1500	25-47	172-12	"	15	1009	73.62	54	59	59	3	2	270/9/20	71	25	290	"
1600	25-42	172-01	"	15	1009	72.62	56	57	57	2	2	270/9/20	71	21	300	"
1700	25-38	171-53	ptly cldy	15	1010	70	61	72	72	5	5	270/11/20	71	21	300	110/10.5
1800	25-34	171-43	"	15	1011	70	61	72	72	7	5	270/11/20	71	21	300	"
1900	25-30	171-32	"	15	1011	70	61	72	72	8	6	270/11/20	71	21	300	"
2000	25-26	171-22	"	10	1011	70	61	72	72	8	6	270/11/20	71	20	310	"
2100			"	10	1012	67	54	66	66	5	3	"		17	340	112/10.5
2200																
2300																
2400																

REMARKS:

ALL TIMES LOCAL (^{W BAY} WHEISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE 21 March 1965 Sunday

TIME	LAT <i>N</i>	LONG <i>W</i>	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200																
0300																
0400																
0500	24-50 N	169-43 W		<i>Phy Cloudy</i>	15	1012	67	54	66	5	3	290/11/10	71	17	310	114/10.5
0600	24-46 N	169-33 W		"	15	1013	68	58	71	3	1	300/11/10	71	13	310	114/10.5
0700	24-42 N	169-22 W		"	15	1013	68	58	71	2	1	310/11/10	71	15	315	" 4
0800	24-38 N	169-11 W		"	15	1014	69	55	59	2	1	315/11/10	71	15	320	"
0900	24-33 N	169-00 W		"	15	1015	71	58	61	2	1	315/10/12	71	15	315	113 11 KTS
1000	24-29 N	168-49 W		"	15	1015	71	58	61	2	1	315/10/12	71	15	315	113 11 KTS
1100	24-24 N	168-39 W		"	15	1015	71	58	61	2	1	315/10/12	71	15	315	113 11 KTS
1200	24-19 N	168-28 W		"	15	1015	71	58	61	2	1	315-10-12	71	15	315	113 11 KTS
1300	24-13 N	168-15 W		"	15	1014	70	57	64	3	1	320/12/12	71	13	320	113 "
1400	24-08 N	168-02 W		"	15	1014	70	57	64	5	2	330/12/12	71	11	320	113 10.5
1500	24-03 N	167-52 W		"	15	1014	70	57	64	8	5	330/12/12	70	7.2	315	115 10.5
1600	23-58 N	167-42 W		"	15	1014	70	57	64	6	3	330/12/12	70	1.4	320	113 10.5
1700	23-53 N	167-31 W		"	15	1014	70	57	64	3	1	330/12/12	70	13	320	113 10.5
1800	23-48 N	167-21 W		"	15	1015	69	57	67	5	2	330/12/12	70	16	340	"
1900	23-43 N	167-11 W		"	15	1015	69	52	67	3	1	330/12/12	72	15	330	"
2000	23-40 N	167-00 W		"	15	1015	69	52	67	5	2	340/12/12	77	13	330	177/10.5
2100	23-38 N	166-48 W		"	15	1017	69	52	67	2	1	315-10-10	72	10	315	107/10.5
2200	23-34 N	166-36 W		"	15	1017	69	52	67	2	1	315-10-10	72	10	315	107 "
2300	23-31 N	166-25 W		"	15	1017	69	52	67	2	1	315-10-10	72	10	315	107 "
2400	23-27 N	166-14 W		"	15	1017	69	52	67	2	1	315-10-10	72	10	315	107 "

REMARKS:

RRAS
 ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
 WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
 12-5-63

DATE Monday 22 MAR 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	cloud Total TL SKY	opaque OPA SKY	swell WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	23-24	166-02 W	"	15	1016	69.62	58	67	2	2	315/6/9	73	10	325	107/11
0200	23-21	165-51	Few clds	15	1016	69.64	61	76	3	3	315/6/8	73	9	345	107/11
0300	23-18	165-40	"	15	1015	70.65	62	77	4	4	315/6/8	74	9	350	"
0400	23-15	165-29	"	15	1015	70.65	62	77	4	4	315/6/8	74	10	350	"
0500	23-11	165-16	Partly Cldy	15	1015	68	58	71	7	5	315/10/6	74	11	005	"
0600	23-08	165-05	Cldy w/ sun	15	1017	68	62	81	10	9	320/10/6	74	7	000	"
0700	23-05	164-54	"	15	1017	68	62	81	10	9	320/10/6	74	9	015	11
0800	23-01	164-43	Cldy	15	1017	68	57	67	10	9	320/10/6	74	9	015	"
0900	22-57	164-32 W	Few clds	15	1018	71	55	59	3	1	340-8-6	74	10	045	106 11 KTS
1000	22-54	164-21 W	"	15	1018	71	55	59	3	1	340-8-6	74	12	045	106 11 KTS
1100	22-50	164-10 W	"	15	1018	71	55	59	3	1	340-8-6	74	12	045	106 11 KTS
1200	22-47	163-58 W	"	15	1018	71	55	59	3	1	340-8-6	74	12	045	106 11 KTS
1300	22-44	163-45	Cldy	15	1017	71.62	57	60	9	8	340 8-6	74	14	045	105 11 "
1400	22-41	163-34	"	15	1017	71.62	57	60	8	7	340/8/6	73	14	045	" "
1500	22-37	163-23	"	15	1017	71.62	57	60	7	5	340/8/6	73	13	040	" "
1600	22-34	163-12	"	15	1017	71.62	57	60	6	4	340/8/6	73	12	025	" "
1700	22-32	163-05	Partly Cldy	15	1017	71	57	60	6	3	340/8/6	73	13	030	" "
1800	22-30	162-56	"	15	1017	71	57	60	5	3	340/8/6	73	13	035	11/9 KTS
1900	22-28	162-48	Mostly Cldy	15	1017	72	58	61	17	8	340/8/6	73	15	020	" 9
2000	22-24	162-37	"	10	1018	72	58	61	9	7	340/8/6	73	14	025	" 9
2100	22-22	162-29	"	15	1019	70	59	68	10	9	340-8-5	73	12	020	105 8.5
2200	22-19	162-20	"	15	1019	70	59	68	10	9	340-8-5	73	12	020	105 8.5
2300	22-17	162-11	"	15	1019	70	59	68	10	9	340-8-5	73	12	020	105 8.5
2400	22-14	162-06	"	15	1019	70	59	68	10	9	340-8-5	73	12	020	102 8.5

REMARKS:

XRAY

ALL TIMES LOCAL (~~WISKEY~~); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE TUES 23 MAR 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	clouds tenths TL SKY	opaque OPA SKY	swell WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	22°-13	161°-58	cldy	10	1019	72.63	58	61	10	9	340/8/5	73	10	010	105/8.5
0200	22°-11	161°-50	"	10	1019	73.64	59	61	10	9	340/8/5	73	9	350	" / 8.5
0300	22°-10	161°-43	"	10	1018	72.65	61	69	10	9	340/8/5	73	12	025	"
0400	22°-07	161°-35	"	10	1018	72.67	64	77	10	9	340/8/5	73	14	030	107/8
0500	22°-06	161°-29	"	10	1018	71	58	65	10	8	340/8/5	73	14	035	"
0600	22°-01	161°-22	"	15	1018	71	58	65	9	7	340/8/5	73	13	040	"
0700	21°-57	161°-13	ptly cldy	15	1018	71	60	69	5	3	340/8/5	73	12	040	"
0800	21°-54	161°-04	"	15	1018	71	60	69	5	3	340/8/5	73	18	020	"
0900	21°-51	160°-55	few clks	15	1020	72	58	61	4	3	045-6-4	75	18	045	107 8.5
1000	21°-50	160°-46	"	15	1020	72	58	61	4	3	045-6-4	75	18	045	107 8.5
1100	21°-48	160°-38	"	15	1020	72	58	61	4	3	045-6-4	75	18	045	107 8.5
1200	21°-46	160°-29	"	15	1020	72	58	61	4	3	045-6-4	75	18	045	107 8.5
1300	21°-42	160°-20	"	15	1019	72.66	59	65	3	2	045/6/4	75	17	040	" "
1400	21°-40	160°-11	"	15	1018	72.67	59	65	3	2	045/6/4	75	16	030	102 "
1500	21°-38	160°-02	"	15	1017	73.68	62	69	5	4	045/6/8	75	20	030	101 "
1600	21°-36	159°-54	"	15	1017	73	62	69	2	1	045/6/8	75	18	035	101 "
1700	21°-34	159°-47	"	15	1017	73	62	69	2	0	045/6/8	75	20	040	"
1800	21°-33	159°-40	"	15	1017	71	61	72	3	1	045/6/8	75	23	040	"
1900	21°-31	159°-32	ptly cldy	15	1017	69	60	72	5	3	215/6/8	75	21	040	"
2000	21°-29	159°-26	"	15	1017	69	62	76	7	4	045/6/8	75	21	040	"
2100	21°-26	159°-16	"	15	1019	69	62	76	6	3	045-6-6	75	18	040	100 8 KTS
2200	21°-24	159°-07	"	15	1019	69	62	76	6	3	045-6-6	75	18	040	100 8 KTS
2300	21°-23	158°-58 W	"	15	1019	69	62	76	6	3	045-6-6	75	18	040	100 8 KTS
2400	21°-22	158°-50	"	15	1019	69	62	76	6	3	045-6-6	75	18	040	100 8 KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63