

SI-124-958e  
7-28-64

SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG — E



DATE June 4, 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
1030					Begin observations	
F 1030	Sooty Tern	6				
	C. Noddy Tern	2				
F 1050	Wedgetail	30 ±				
F 1100	Bulwers	7				
F 1105	Sooty Tern	15 ±				
	C. Noddy	5				ST 90/11
	Wedgetail	10				CN 22/6
1110	Bulwers	2				W 116/11
1112	Sooty Tern	4				B 14/6
1115	Wedgetail	3				RFB 24/4
F 1120	Sooty Tern	4				FT 2/1
	Wedgetail	3				<u>268/30</u>
F 1125	Wedgetail	40 ±			<del>not a flock</del>	
1	C. Noddy	10				
1145	Sooty Tern	35 ±				
1148	Wedgetail	2				
1150	Sooty Tern	2				
1154	"	1				
1200	Wedgetail	3				
1201	Bulwers	1				
1202	Sooty Tern	1				
1203	C. Noddy	3				
1205	RFB	1				
1206	Wedgetail	3				
1207	Bulwers	2				
1208	C. Noddy	1				
1209	Sooty Tern	1				
1210	Bulwers	1				
1211	Wedgetail	1				
1215	"	1				
1230	Bulwers	1				
1234	Sooty Tern	1				
1234	C. Noddy	1				
FF 1236	Sooty Tern	20 ±				
	Fairy Tern	2				
	Wedgetail	20 ±				
	RFB	15 ±				
1237	RFB	1				
F 1238	RFB	7				

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DATE June 4, 1965  
Pg. # 2

	time	species	#	dir.	hgt.	remarks	loc.
F	1239	RFB	12 ±				
FF	1240	Sooty Tern	45 ± 5				
		Wedgetail	30 ±				
		RFB	10 ±				
F	1245	Sooty Tern	20 ±				RFB 36/7
		C. Noddy	50 ±				ST 80/5
		Wedgetail	35 ±				W 115/9
		RFB	10				CN 51/2
	1247	Bulwers	3				B 29/17
	1250	Wedgetail	2				Tn 1
	1252	Bulwers	2				312/37
	1254	Sooty Tern	3				
	1256	RFB	1				
	1257	Wedgetail	1				
	1301	Bulwers	1				
	1307	RFB	1				
	1311	Bulwers	1				
	1315	"	1				
	1320	RFB	1				
	1321	Bulwers	1				
	1323	Wedgetail	1				
	1325	"	1				
	1326	Bulwers	2				
	1328	C. Noddy	1				
	1332	Wedgetail	2				
	1338	Bulwers	1				
	1345	"	3				
	1347	Wedgetail	2				
	1353	Bulwers	2				
	1402	"	1				
	1403	Sooty Tern	2				
	1404	Bulwers	1				
	1406	"	2				
F	1410	Sooty Tern	10				
		Wedgetail	40 ±				
		RFB	1				
	1411	Wedgetail	1				
	1412	Bulwers	3				
	1414	"	1				
	1416	Tropic bird	1				
	1422	Bulwers	2				
	1425	"	2				

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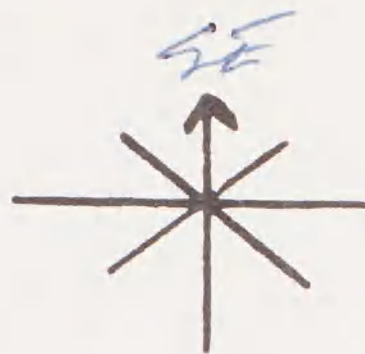


DATE 4 June 1965  
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1427	Sooty Tern	1				
1430	Bulwers	1				
1432	WTTB	1				
1435	C. Noddy	1				ST 123/13
1436	Wedgetail	2				B 18/13
1443	Petrel	1				WTT 1
1446	Bulwers	2				CN 36/2
1448	"	1				W 60/17
1449	Wedgetail	1				Pet 1
1450	Sooty Tern	2				S-P 1
1454	"	1				RFB 1
1456	Bulwers	2				NS 1
1502	Wedgetail	1				
1503	Shear-Pet	1				
1513	Bulwers	2				
1522	Wedgetail	2				
1527	Bulwers	1				
F 1531	Sooty Tern	90±				
	C. Noddy	35±				
	Wedgetail	30±				
	RFB	1				
1536	Sooty Tern	2				
1537	"	1				
1538	"	1				
1540	"	2				
1541	Wedgetail	1				
1542	Bulwers	3				
1544	Sooty Tern	2				
1545	Wedgetail	1				
1546	"	1				
1551	Bulwers	1				
1553	Wedgetail	1				
1554	Sooty Tern	1				
1556	Bulwers	1				
1557	Wedgetail	2				
1558	"	1				
1600	"	1				
1602	Sooty Tern	1				
1603	Wedgetail	1				
1605	"	1				
1606	Bulwers	1				
1607	"	1				
1610	Wedgetail	1				
1615	Bulwers	1				
1616	Newells	1				
1620	Wedgetail	1				
F 1622	Sooty Tern	18±				
	Wedgetail	12±				
1623	Sooty Tern	1				
1624	Bulwers	1				

242/46

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DATE 4 June 1965  
Pg. # 4

	time	species	#	dir.	hgt.	remarks	loc.	
F	1630	Sooty Tern	50±					
		c. Noddy	10±					
		RFB	2					
		Wedgetail	75±					
	1634	c. Noddy	2					
	1638	Bulwers	1					
	1702	Frigate	1					
	1704	Wedgetail	1					
F	1708	Sooty Tern	30±					
		Frigate	3					
		Wedgetail	25±					
	1712	Wedgetail	1					
	1716	Bl. F. Alb.	1					
	1720	Sooty Tern	2					
	1724	Bulwers	1					
	1725	"	1					
	1732	"	1					
	1740	"	1					
	1745	"	3					
F	1750	Sooty Tern	40±					
		c. Noddy	30±					
		Wedgetail	100±					
		Newells	1					
	1757	Wedgetail	3					
	1802	Bulwers	1					
	1809	Wedgetail	1					
	1812	Sooty Tern	1					
	1815	Bulwers	1					
	1822	"	1					
	1825	"	1					
	1830	"	1					
	1852	Wedgetail	1					
F	1855	Bulwers	7					
	1900	Sooty Tern	1					
✓	1905	Sunset						

ST 124/5  
CN 42/3  
RFB 2/1  
W 207/8  
B 20/12  
F 4/2  
BFA 1  
NS 1

401/26  
268/30  
312/37  
242/46  
1223/139

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DIVISION OF BIRDS  
AT SEA DAILY LOG -- E



DATE 5 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0546					Sunrise	
0558	Newells	1				
0602	Wedgetail	1				
0611	Shear-Pet	1				
0615	"	1				
0618	Wedgetail	1				
0629	Newells	2				
0630	Sooty Tern	1				
0638	"	2				
0640	Bulwers	1				
0641	"	1				
0643	"	1				
0656	Sm. Pterodroma	2				
0704	Bulwers	1				
0706	Newells	1				
0712	Bulwers	1				
0712	Shear-Pet	1			Wedgetail or Pterodroma	
0720	"	1				
0725	Gray back T.	2				
0736	Wedgetail	1				
0747	Newells Shear	2				
0800	JFP	1				
0816	Sooty Tern	50±				
	C. Noddy Tern	10±				
	Fairy Tern	2				
	Wedgetail	2±				
	DRP	3±				
0816	Frigate	1				
0837	Wedgetail	1				
0848	Wedgetail	1				
0849	Wedgetail	1				
0857	Bulwers Pet	1				
0901	Wedgetail	1				
0907	Wedgetail	1				
0922	Cooks	2				
0942	Sooty Tern	2				
0947	Wedgetail	1				
0948	Bulwers	1				
1004	"	1				
1006	Newells	1				
1022	Pterodroma	1				
1036	Shear-Pet	1				
1042	Wedgetail	1				
1046	Shear-Pet	1				
1109	RTTB	1				
1112	Newells	1				

NS 9/7  
W 80/11  
S-P 6/6  
ST 70/5  
B 9/9  
PT 3/3  
GBT 2/1  
JFP 1  
CN 10/1  
FT 2/1  
DRP 3/1  
F 1  
EP 2  
RTTB 1

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199/44

0910 Newells 1  
0913 Bulwers 1  
0930 Sooty Tern 15

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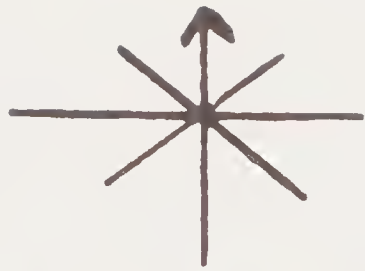
DATE June 1965  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1115	Bulwers	1				
1115	Sooty Tern	4				
1122	Cooks	1				
1125	Wedgetail	1				
1125	RTTB	1			Possibly same as previous	
1144	Wedgetail	2				
F 1205	Sooty Tern	100	SE	±50		B 4/4
	Shear Petrel	50	SE	±20		ST 118/6
1208	Wedgetail	1				CP 6/5
1211	Cooks Petrel	1				W 29/17
1225	Wedgetail	1				RTT 1
1230	Bulwer	1				S-D 50/11
1233	Sooty Shear	1	W			SS 1
1237	Wedgetail	1				PT 1
1255	"	4			on water	DRP 2/2
1315	Bulwers Pet	1				DFP 2/2
F 1342	Wedgetail	3				214/37
	Cooks Petrel	1			like Cooks, slightly darker back, no black underwing	
	Pterodroma	1				
1355	Dark Rump	1			Uniform dark brown back, ends of wings appeared darker as in Wedgetail; Dark-rump pattern below (dark wing borders); Appeared smaller	
1400	Wedgetail	7				
1400	Cooks	1				
1405	"	2				
1403	Bulwers	1				
1437	Wedgetail	1				
1444	"	3				
1446	Sooty Tern	2				
1502	"	1				
1505	Dark rump	1				
1515	Wedgetail	1				
F 1536	Sooty Tern	10				
1538	Wedgetail	1				
1544	"	1				
1544	Sooty Tern	1				
1555	Wedgetail	1				
1604	"	1				
1606	Sooty Tern	1				
1638	Juan Fernandez	1				
1712	Wedgetail	2				
1717	DFP	1				
1720	Wedgetail	1				

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DATE 5 June 65  
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1742	RTTB	1				
1747	QFP	1				
1755	Leach's	1				RTT - 1
1828	Bulwers	1				QFP - 2/2
1830	QFP	1				LSP - 1
✓ 1848					Sunset	B - 1
						5/5

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AT SEA DAILY LOG -- E

DATE 6 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0541					SUNRISE	
0712	<del>Cooks</del>	1				
0722	WEDGETAIL	1				
0745	wedgetail	1				
0757	<del>COOKS</del>	1				
0802	wedgetail	5				CP 7/7
	COOK	1				W 17/9
0827	wedgetail (dark)	1				S-P 1
0850	" "	2				PT 4/4
0852	<del>COOKS</del>	1	se			DRP 1
0952	"	1				LSP 2/2
1000	shear. Petrel	1				B 2/2
1005	wedgetail	3				RTT 1
	cooks Petrel	1				
1129	wedgetail	3				
	Pterodroma	1				
1138	Dark-rump	1	nw			
1155	L. shear. Pet	1				
1213	Bulwers	1				
1238	Wedgetail	1				
1344	Pterodroma	1				
1500	RTTB	1				
1503	L. shear. Pet	1				
1516	<del>cooks Petrel</del>	1				
1524	wedgetail	1				
1742	Bulwers	1				
1744	Sm. Pterodroma	1				
1748	"	1				
1837					Sunset	

CP 7/7  
W 17/9  
S-P 1  
PT 4/4  
DRP 1  
LSP 2/2  
B 2/2  
RTT 1  
35/24



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DATE 7 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0540					SUNRISE	
0557	Newells	1	N			
0637	Shear-Pet	1	W		Newells or Pterodroma	
0704	Sm. Pterodroma	1	SE		Cook - Brown	
0726	<del>Cooks</del>	1				9? 1
0740	Small Pterodroma	2			cooks?	NS 1
0741	Shear-Petrel	1			Wedgetail?	S-P 13/12
0758	"	1				PT 12/12
0759	"	1				CP 4/4
0813	Sm. Pterodroma	1	NW		Stegreys?	LSP 3/3
0814	Shear-Pet	1				SFP 13/8
0816	Leachs	1				W 2/2
0818	Sm. Pterod.	1	S		JFP or Steg?	WNP 5/5
0831	JFP	1	SW			DRP 2/2
0834	Sm. Pterod.	1	NW		Stegs?	<del>WNP</del> 4/3
0849	<del>Cooks</del>	1	SW			59
0850	Shear-Pet	1				
0925	Pterodroma	1	N		Cooks?	
1000	<del>Cooks</del>	1				
1054	Wedgetail	1				
1055	White Neck?	1			molting in 1° - white patches on upper wing	
1139	Leachs	1	N			
1153	SFP	1	SW			
	wedgetail (dark)	1				
1200	Dark Rump	1	S			
1223	<del>wedgetail</del>	2	NW			
1303	<del>Pterodroma</del> Shear-Pet	1			All dark, no flapping, horizontal flight close to water	
1311	Dark-rump	1	N			
1315	Pterodroma	1	NW			
1409	Leachs	1	SW			
1423	Sm. Pterod.	1	NW			
1425	"	1	NW			
1436	<del>Cooks</del>	1			Got off water	
1458	Shear-Pet	1				
1550	"	1				
1558	"	1				
1625	"	3			All dark. wedgetail?	
1651	JFP	1	SW			
1655	White Neck	1				
1718	"	1			molting in primaries	
1753	Pterodroma	1	NW			
1800	"	1			Cooks?	
	White Neck	1				
	JFP	1				

Over

F 1804 9FP 3  
 WNP 1  
 Jaeger 2 1

1808 9FP 1

1814 " 1

F 1815 9FP 4-5

Shear Pet 2  
~~Shear Pet~~  
 Slender-bill Sh.

All day, appeared too small  
 for Slender bill, otherwise similar

1825 \_\_\_\_\_ Sunset

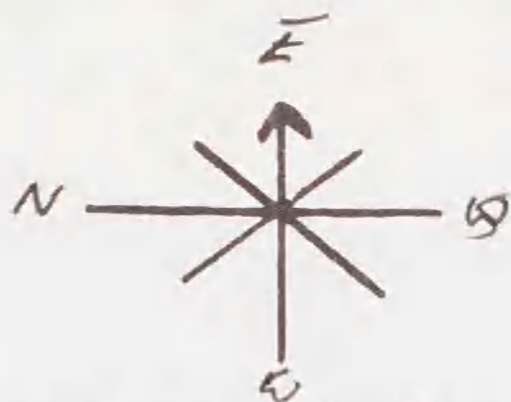
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 Ark. Ariz. Cal. Cal. Conn. Del. Ill. Ind. Ia. Kan. Ky. La. Maine Md. Miss. Mich. Mo. Miss. Mont. Minn. Neb. Nev. N.C. N.D. N.H. N.M. N.Y. Ohio Oreg. Pa. R.I. S.D. Tenn. Tex. Va. W. Va.

Haw. Cal. Gt. Ariz. Colo. Kan. Tex. Ark. Tenn. Ky. Ind. Mich. W. Va. Va. N.C. N.D. Pa. Md. Ia. Iowa Miss. S.C.

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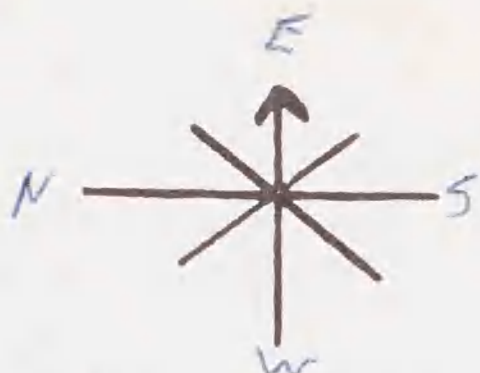
DATE 8 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0538					Sunrise	
0545	JFP	1				
0607	<del>Cooks</del>	1	S			
0610	Sm. Pterodroma	1	NW			
0616	Pterodroma	1	NW			
0621	JFP	2	E			
0622	<del>Cooks</del>	1				
0641	JFP	1	N			
0644	Shear-Pet	1	N		Appeared all dark except for white spot on upper wing (molt?); underwings slightly lighter a/o shiny. Keenadee?	
0708	" "	1				
0715	small Pterodroma	1			Petrel flight, same size as JFP.	
0717	Pterodroma	1	NW			
0731	JFP	1	W			
0745	Pterodrom.	2	W		WNV?	
0753	Shear-Petrel	4	SW		dark brown, lighter <sup>brown</sup> under the wings, shear flight	
0755	<del>Cooks</del> Petrel	1	SW			
0758	JFP	1	W			
0803	Shear-Petrel	1				
0806	" "	1			" " " " " " " "	
0811	JFP	1				
0818	" "	1				
0823	" "	1				
0825	<del>Cooks</del> Petrel	1				JFP 28/21
0826	" "	1				CP 9/8
0827	Small Pterodroma	1				PT 10/9
0829	JFP	1				S-P 10/7 (2 dark)
0830	JFP	1				WNP 1
0831	<del>Cooks</del> Petrel	1				WTT 1
0831	<del>Small Pterodroma</del>	1				TA 1
0832	<del>WNP</del>	1				
0833	JFP	1				
0836	JFP	1			W on NW	
0838	JFP	1				
0839	<del>Cooks</del> Petrel	1				
0856	Pterodroma	1				
0900	JFP	6			look bird, flight Petrel like, smaller than JFP	
0900	Shear Petrel	1				
0902	<del>Cooks</del> Petrel	2				
0906	JFP	1				
0909	Shear-Petrel	1			Probably JFP	
0909	WTTB	1				
0910	JFP	1				
0915	JFP	2				
0916	Tropicbird sp	1				
0917	Pterodroma	1				
0918	JFP	1				
0930	" "	1	NW			
0931	" "	1	W			
0934	" "	1	NW			

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DATE 8 June 65  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0939	9FP	1	NW			
0939	White Neck	1				
0940	9FP	1				
0940	Pterod.	1	NW			
0940	"	1	NW			
0944	Slender Bill Sh?	4	N.D.		All dark, wings not straight, slow	
0950	Pterodroma	3	NW		meandering flight	
0953	Shear-Pet	1	S		" " " " "	
0954	"	1	S		" " " " "	
0956	"	1	N			
0956	White Neck	1	<del>NW</del> S			
1005	9FP	1	E			
1005	9FP	1	E			
1006	9FP	1				
1010	Bulwers	1	NW			9FP 20/18
1014	9FP	2	NW			WNP 5/5
1017	"	2				PT 23/8
1030	"	1	E			S-P 14/10 (13 all dark)
1031	White Neck	1				BP 1
1039	Shear-Pet	1	NW			CP 1
1046	<del>Cook's</del>	1			All dark	FT 1
1054	Shear-Pet	1	N		" "	65/42
1105	9FP	1	N			
1107	Pterodroma	1	E <sup>2</sup>		Cooks?	
1109	Shear-Pet	1			All dark	
1115	Sm. Pterod.	1				
1117	9FP	1				
1117	Sm. Pterod.	1	S			
1124	9FP	1				
1128	"	1				
1140	"	1				
1142	Shear-Pet	1			All dark	
1149	JFP	1				
1153	"	1				
1154	WNP	1				
1201	JFP	1				
1203	"	1				
1204	Shear-Pet	1			all dark	
1200	Small Pterodroma	1	NW			
1232	JFP	1				
1258	White Neck	1				
F 1301	JFP?	19±				
	Fairy Tern	1				
	Shear-Pet	2			All dark	



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DATE 5 June 1965  
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1308	JFP	1	W			
1320	dark shearwater petrels	3	S			
1334	JFA	1				
1335	JFP	3	E			
	<del>Cook's Petrel</del>	1				
1337	JFP	1				
1342	Bulwer's Pet	1				
1344	JFP	2				
1346	Cook's Petrel	1				
	JFP	1				
1347	JFP	1				
1350	JFP	2			sitting on water	
1353	Wedgetail	1			flopping up and down in water	
1354	WNP	1				
1355	Shear-Pet	2			dark	
	JFP	1				
1358	QFP	1	NW			
1400	"	1	S			
1401	"	1				
1401	Shear-Pet	2			All dark	
1405	"	1			light phase Wedgetail or Herald's Pet. - light (not white) below, body only; underwing appeared mostly dark with lighter center streak; short stubby tail.	
FLOCK	Dark Wedgetail	7				
	JFP	2				
	White neck	1				
1421	Dark Wedgetail	2				
1430	Dark Wedgetail	3				
1430	"	1				
1444	White neck	1	S?			
1447	Pterodroma	1	E			
1455	QFP-WN	1	S			
1506	QFP	1	S			
1510	Wedgetail	1	S		Dark	
1515	QFP	1				
1521	Shear-Pet	1				
1525	White-neck	1			Dark - high arcing, wings bent	
1535	QFP	1	S			
1554	"	1				
1555	WNP	1				
1600	JFP	1				
1601	Shear-Petrel	1			dark	
1603	" "	3				
1610	JFP	1				

QFP 24/19  
S-P 13/7 9 dark  
CP 2/2  
BP 1  
W 15/6 (11, 1st)  
WNP 5/5  
PT 2/2  

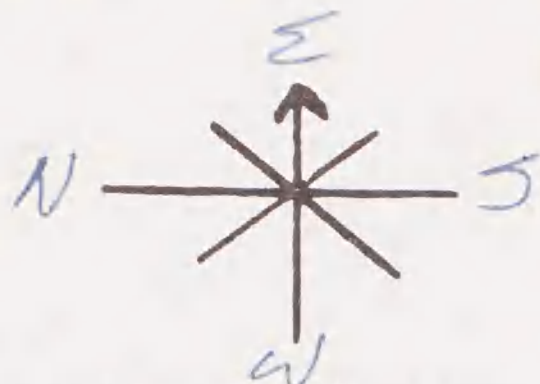
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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG -- E

DATE 8 June 1965  
Pg. # 4

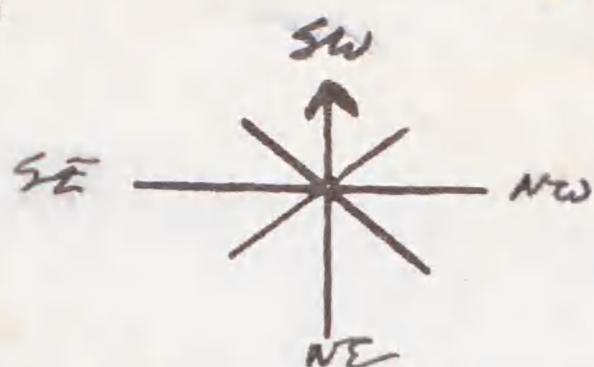


time	species	#	dir.	hgt.	remarks	loc.
F 1615	Sooty Tern	3				
	Pterodroma	5±				
	Shear-Pet	5±				
1630	Wedgetail	1	N		Dark	
1632	Wedgetail	1	S		Dark	
1634	Christmas Is. Shear	1				
1638	JFP	1				
1645	JFP	1				
1700	JFP	1	S			ST 4/2
1708	Wedgetail	1	S		Dark	PT <del>6/2</del> 7/3
1719	Bulwers	1	NW			SP 7/2 2dark
1727	<del>Pterodroma</del>	1				W 6/5
	Shear-Pet	2			Dark	CIS 1
1727	JFP	1				JFP 7/7
	<del>Cook's Petrel</del>	1				BP 1
	Pterodroma	1				CP 1
	"	1				WNP 1
1735	"	1				
1738	JFP	1				35/19
1759	Wedgetail	2			Dark	60/47
1808	Wedgetail	1				65/42
1809	JFP	1				62/37
1810	"	1				
1815	Sooty Tern	1				
1819	WNP	1				22.2/14.5

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

DATE 9 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0536					Sunrise	
0547	JFP	1	NW			
0548	BFB	1			SA	
F 0550	Sooty Tern Wedgetail <del>Wedge-tail</del>	4 2-3 <del>1</del>			dark	
0558		1				
	Puau Tern	12				
0602	Newells	2				JFP 98/19
0607	JFP	2				BFB 3/3
0608	Newells	2	SE			ST 4/1
0609	JFP BFB	1			coll 17	W 22/6
0640	JFP	2				NS 12/7
0645	Wedgetail	1				S-P 15/1
0648	JFP	1				RTT 2/2
0655	JFP	1				LTY 3/1
0702	"	2			0700 RT Tropicbird	CP 6/1
0707	Wedgetail	1				WNP 4/2
0710	JFP	1				
F 0815	Shear-Pet	15				
0835	JFP	4				
0836	"	2				
0839	"	1				
0842	"	1				
0845	WNP	1				
0848	JFP	1				
0849	Newells Shear	1				
0850	Wedgetail	3			dark	
F 0900	Wedgetail	10			3 dark	
	JFP	15				
	WNP	3				
	Newells Shear	3				
	Shear-Pet	6				
0920	JFP	4				
0931	RTTB	1				
0940	Newells Shear	1			Black under tail, white extends upon back	
F 0945	JFP	1				
	Newells Shear	2				
0950	BFB	1				
F 1002	JFP	29			sitting on water	
F 1004	Wedgetail	5			dark	
1005	Newells Shear	1				
1008	T. Tanager	3				
F 1010	JFP	6			sitting on water	
F 1015	JFP	8			" " "	

JFP 98/19  
BFB 3/3  
ST 4/1  
W 22/6  
NS 12/7  
S-P 15/1  
RTT 2/2  
LTY 3/1  
CP 6/1  
WNP 4/2

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



DATE 9 June 65  
Pg. # 2

	time	species	#	dir.	hgt.	remarks	loc.
	1017	<del>Cook's Pet</del>	3				
	1018	JFH	4				
	1020	JFP	3				
F	1040	Sooty Tern	6				
		JFP	15				
		Newell's Shear	1			1 call <u>10/10/10</u>	
		Wedgetail	10			3 dark	
	1110	JFP	3				
F	1115	"	6				
	1135	<del>Cook's Pet</del>	1				
	1145	JFP	2				
	1150	<del>Cook's Pet</del>	1				
	1152	JFP	1				
	1156	Newell's Shear	1				
	1209	JFP	1				
	1215	"	1				
F	1220	Sooty Tern	8				
		JFP	15				
		Wedgetail	5				
	1228	JFP	2				
	1235	Newell's S	1				
	1236	JFP	1				
	1300	BFB	2			1 call <u>7/10/10</u> ♀	
	1301	JFP	2				
	1321	BFB	1			" " " ♀	
	1334	JFP	1				
	1344	"	2				
	1346	Small Pterodroma	1				
	1358	Shear-Petrel	1				
	1407	JFP	1				
F	1412	JFP	10			withing on water	
		Wedgetails	7				
F	1414	Sooty Tern	9				
	1415	JFP	2				
	1420	Newell's Shear	1				
	1421	Wedgetail	1			dark	
	1422	<del>Cook's Pet</del>	1				
	1425	Sooty Tern	1				
	1427	JFP	2				
	1430	"	1				
	1433	<del>Cook's Petrel</del>	1				
	1437	JFP	1				
	1452	JFP	1				
	1504	<del>Cook's Petrel</del>	1				
	1510	JFP	1				
	1516	JFP	1				

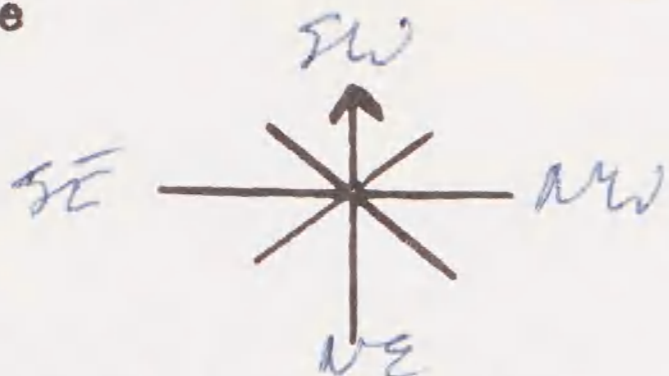
CP 8/6  
JFP 79/24  
ST 24/4  
NS 4/4  
W 23/2  
BFB 3/2  
PT 1  
S-P 1  

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



DATE 9 May 65  
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1526	JFP	1				
1538	Remell's S	1				
1540	JFP	2				
1545	"					KP 1
1547	Cook's Pet	1				9FP 10/7
1556	JFP	1				NS 1
1600	BFB	1			well <u>hunted</u> u	CP 4/3
1622	Cook's Petrel	1				BFB 3/3
1628	Small Pterodroma	1				PT 15/4
1630	Wedgetail	2				W 11/24
1639	Bulwers	1	NW			BP 1
1715	BFB	1			Down	ST 30/1
F 1728	Sm. Pterodrom	3	NE			S-P 2/1
	9FP	2	NE			WNP 1
1729	JFP	1	NE			<u>76/20</u>
F 1740	Sooty Tern	30+				
	Cook's	2+				
	Wedgetail	5+			dark	
	Pterodroma	10+				
	Shear-Pet	2+			dark, appeared to have light area	
	Kermadec	1			on outer part. of underwing but may	
					have been shiny feathers rather than	
					white	
1800	Wedgetail	1			dark	
F 1805	"	3			"	
	9FP	2				
1806	White-neck	1				
1816	BFB	1				98/19
1816	9FP	1				79/24
1818					Sunset	10/7
1827	JFP	3				<u>187/50</u>

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



DATE 10 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
					Sunrise	
F 0553	Juan FP	3				
	Wedgetail	2			dark	
	B.F. Booby	1			(coll.) <u>Wulley</u>	
0550	Shear-petrel	3				
0605	Wedgetail	2			dark	
0606	BFB	1				
0610	JFP	1				
0628	BF Booby	1				
0631	Wedgetail	1			dark	
0635	"	1			"	
0646	Sooty Tern	4				
0648	Wedgetail	3			dark	
0652	"	1			"	
F 0658	Sooty Tern	18				
0700	small Pterodroma	1				
0702	Wedgetail	1			dark	
0706	Wedgetail	1				
0716	Sooty Tern	1			dark	
0718	small Pterodroma	1				
F 0735	Wedgetail	3			2 dark, 1 light	
	Sooty Tern	12				
	JFP	5				
	BF Booby	1				
F 0750	Sooty Tern	20				
	Large Pter.	3				
	Wedgetail	4			dark	
0753	Frigate	2				
0755	Wedgetail	1				
0757	Laysan S. P.	1				
0804	Cook's Petrel	1				
0805	BFB	1				
0814	Lg. Pterodroma	1	SE		coll - <u>Husted</u>	
0816	Phoenix Is.	1	SE			
0816	Pterodroma	1				
0816	"	1				
FF 0830	Sooty Tern	175 ± 25			1 coll. <u>Husted</u>	
	Wedgetail	50 ±			also dark	
	Juan Fern.	30 ±				
	Fairy Tern	1				
	Christmas Is.	1			coll <u>Husted</u>	

JFP 39/4  
W 70/12  
BFB 5/5  
S-P 3/1  
ST 230/6

SPT  
LPT  
F 2/1  
LSP 1  
CP 1  
PIP 1  
PT 8/C  
FT 1  
CIS 1

369/29

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

DATE 10 June 1965  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0905	BFB	1	W			
0906	Wedgetail	1			dark	
0906	Sooty Tern	2				
0915	Wedgetail	3			2 dark, 2 coll. <u>Whites</u> , 1 coll. Bayan	
0950	JFP	2				
1000	BF Booby	1				
	Wedgetail	1			dark	
	JFP	2				
1006	<del>W</del> Cook's Pet	1				BFB 5/5
1009	JFP	1				W 21/14
1009	JFP	1				ST 6/4
1009	<del>W</del> Cook's Petrel	1				JFP 18/13
1015	BFB	1				CP 3/3
1019	JFP	1				P 1
1022	JFP	1				RTT 1
1027	<del>W</del> Cook's Pet	1				PIP 2
1028	Sooty Tern	1				GB?T 1
1031	JFP	1				
1032	JFP	1			ritting on water	58/33
1040	Wedgetail	1				
	BF Booby	1			coll. <u>Whites</u>	
	Wedgetail	1				
1045	Sooty Tern	1			dark	
1052	Wedgetail	3			dark	
	JFP	1				
1104	JFP	1				
1110	Frigate	1				
1111	Wedgetail	1			dark	
1128	"	1			dark	
1130	GB? Tern	1				
1136	Wedge tail	1			dark	
1142	JFP	1				
1155	Sooty Tern	2			coll. <u>Whites</u>	
1157	Wedgetail	1			dark	
1230	RT Tropicbird	1			coll.	
	Wedgetail	1			dark	
	BF Booby	1			coll.	
	Phoenix I. Pet.	1				
1235	Wedgetail	2			1 dark	
	JFP	1				
1240	Wedgetail	3			dark	
	Phoenix I	1				
	JFP	4				
1245	Wedgetail	1			dark	

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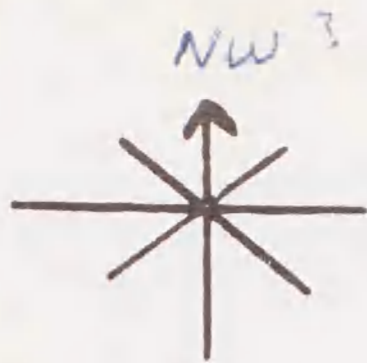


SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG -- E

DATE 10 June 65  
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1243	Sooty Tern	4			1 coll. <del>white</del>	
1250	Wedgetail	1			dark	
1300	"	1			"	
1304	"	1			"	
F 1310	Sooty Tern	50+				
	Frigate	2				ST 358/7
	JFP	4				W 212/15
	Wedgetail	35+			30 dark	F 513
1325	"	1			dark	9FP 34/8
1332	Sooty Tern	1				BP 4/3
1334	Wedgetail	1			"	BFB 9/5
1335	<del>Bulwers</del>	1			sitting on water	RTT 1
1338	Wedgetail	2			" dark	NS 1
1345	Bulwers	2				
F 1410	Sooty Tern	150 ± 20				<del>572/27</del>
	Wedgetail	50 ± 10			2 coll. ~ 45 dark	624
	Frigate	2			2 coll. 11 water	362/29
	BFB	5 ±			1 coll. Harrington	58/33
	9FP	5 ±				<u>1044/89</u>
1415	BFB	1				
1417	Bulwers	1				
1418	BFB	1				
1426	RTTB	1				
<del>1440</del>	<del>BFB</del>	<del>2</del>			<del>coll. Harrington</del>	
1540	Newells	1			circling downed wedgetails	
1554	9FP	1				
1559	Bulwers	1				
1600	Wedgetail	1	SE		dark	575
1613	Wedgetail	1	N.		dark.	49
1615	BFB	1			♀	<u>624</u>
1620	JFP	1				
F 1650	JFP	4				
	Sooty Tern	3				
	Wedgetail	5				
F 1655	Sooty Tern	50+				
	Wedgetail	35+			dark	
	JFP	15+				
1710	Wedgetail	2			dark	
	JFP	1				
	BF Booby	1			coll.	
FF 1715	Sooty Tern	100 ±				
	Wedgetail	75 ±			all dark	
	Frigate	1			Imm. - coll. Husted	
	Queen Frigate	3				
182	7 Terns					

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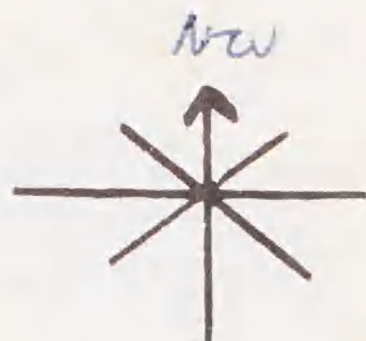


SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG -- E

DATE 11 June 1965  
Pg. # 1

	time	species	#	dir.	hgt.	remarks	loc.
	0604	Wedgetail	1			dark <sup>sunrise</sup>	
	0611	Bulwers	1	SW			
	0621	Bird	1			instant, head on	
	0628	Wedgetail	2	SW		dark	
	0629	"	1				
	0640	BFB	1			coll - KA Ad.	
	0648	Wedgetail	1				
	0650	Sooty Tern	2				
VF	0651	Sooty Tern	30				
		Wedgetail	10			2 light } large fish beneath	
	0714	BFB	1			coll. - Musted	
	0734	Bulwers	1				
	0736	Wedgetail	1			dark	
	0744	Phoenix Is.	1				W 97/21
F.	0810	Sooty tern	15			1 coll.	BP 2/2
		Wedgetail	5			light, 1 dark coll. E	Bird 1
		RT Tropic	1				
		BF Booby	1			coll	BFB 3/3
		small Preradrom	1				ST 163/10
	0815	Wedgetail	1			dark	PIP 1
	0832	"	1			"	RTT 2/2
	0833	"	2			"	PT 1
	0844	"	1			"	Booby 1
	0847	"	1			"	
	0848	Booby sp	1			all white	
F	0851	Sooty Tern	10	E			9FP 6/2
		Wedgetail	3			dark	CP 1
	0855	Sooty Tern	1	E			
	0903	Wedgetail	1	E		dark	
	0905	Sooty Tern	1	E			268/37
	0912	JFP	1	SE			
	0914	Sooty Tern	1	E			
	0920	"	1	E			
	0922	Wedgetail	1	SE		dark	
	0932	"	1			"	
	0933	"	1			"	
	0934	Booby Petrel	1	NW			
	0947	RTT	1				
	0954	Wedgetail	1			dark	
F	0956	Sooty Tern	100 ±				
		Wedgetail	50 ±				
		JFP	5				
	1015	Wedgetail	1			dark	
	1027	"	1			"	
	1028	Sooty Tern	2				

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

DATE 11 June 1965  
Pg. # 2

	time	species	#	dir.	hgt.	remarks	loc.
	1034	Wedgetail	1			dark	
	1042	Wedge Petrel	1				
	1046	Wedgetail	1			"	
	1055	Sooty Tern	2			"	
	1057	Wedgetail	1			"	
	1058	Small Pterodrom	1				
F	1115	Sooty Tern	25			1 coll. 14 nested	
		Wedgetail	3			dark <del>14</del>	
		Fairy Tern	2				
	1203	Wedgetail	1	W		dark	
		Sooty Tern	3	SE			
	1210	Wedgetail	1	N		dark	
	1223	"	1	NW		dark	
	1230	Phoenix Is.	1				
	1230	RTT	2			on water - coll. 14 nested	
	1235	BFB	1				
	1247	Wedgetail	1				
	1254	Sooty Tern	1				
F	1335	" "	6			1 coll. <u>P. rostrata rostrata</u>	
	1350	Phoenix Is Pet	2			call	
	1358	BFB	1				W 74/13
	1400	Sooty Tern	1				CP 1
	1412	Shear-Petrel	1				ST 121/10
	1417	Wedgetail	1			dark	PT 1
	1421	BFB	1				FT 2/1
	1425	Phoenix Is Pet	3				PIP 8/4
F	1433	Sooty Tern	75 ±			call	RTT 3/2
		Wedgetail	60 ±				BFB 5/5
	1503	BFB	1			call	S-P 3/2
	1515	Bulwer's Pet	1				BP 1
	1522	Wedgetail	1			dark	219/36
	1541	RTTB	1				
	1549	Sooty Tern	21	NW			
	1553	Shear-Pet	2	N			
	1555	Wedgetail	1	NW		dark	
	1556	Sooty Tern	3	NW			
	1559	" "	1	NW			
	1602	Wedgetail	1			dark	
	1615	Phoenix Is Pet	2				
	1626	BFB	1				

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG — E



DATE 11 June 65  
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1650	Phoenix I. P.	1	S			
1658	shear-petrel	1			horizon	
1700	BF Booby	1	S			
1705	wedgetail	1			dark	
1708	wedgetail	1	NW		dark	
1720	Cook's Pet	1				
1730	wedgetail	2			dark	
F 1740	Sooty Tern	20 ±			1 coll - <del>W. I. P.</del> + American	
	wedgetail	3			dark	
1800	wedgetail	1				
1805	RTTB	1			coll. (husted)	
1838	Phoenix Is. Pet	1				
1839	Cook's Pet	1				
1842	<del>W. I. P.</del>				<del>Sighted</del>	

PIP 2/2  
S-P 1  
BFB 1  
W 8/5  
CP 2/2  
ST 20  
RTT 1

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35/12  
268/37  
219/36  

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SMITHSONIAN INSTITUTION  
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AT SEA DAILY LOG -- E

DATE 12 July 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0617					Sunrise	
0619	Wedgetail	4			dark	
0629	"	1			"	
0638	"	1			"	
0644	9FP	1				W 122/15
0645	Sooty Tern	1				9FP 6/4
0645	Cook's B. W	1				ST 163/12
F 0646	Sooty Tern	6				CP 1
0656	9FP	1				Tern 1
0657	Wedgetail	1			dark	S-P 1
0704	Sooty Tern	1				PIP 4/3
0705	Tern	1			dark, low	BP 1
0705	Shear-Pet	1				FT 3/2
F 0714	Wedgetail	5	W		all dark	Sk 1
0715	Phoenix I.P.	1	W			F 8/1
	Wedgetail	2			dark	RFB 1
0718	Sooty Tern	1				NS 1
0724	Wedgetail	1			dark	M 1
0727	Sooty Tern	4				
0727	Bulwers	1				
0728	Sooty Tern	2				
0732	9FP	1				
FF 0739	Sooty Tern	140 ± 10				
	Fairy Tern	2				
	Christ. I. Shear	1			ident. not positive, but not a dark wt. and smaller.	
	<del>Shear</del>	<del>6</del>				
	G Frigate	8			1 coll.	
	RF Booby	1			Southern	
	Guantern	3				
	Wedgetail	100 ±			2-3 light	
	Newell's	1				
0903	Wedgetail	1			dark	
0909	Sooty Tern	1				
0910	"	1				
0915	"	2				
0931	Wedgetail	1			dark	
0937	"	1			dark	
0940	"	1			"	
0950	sooty tern	1			"	
0958	"	3			"	
	Phoenix I	1				
1008	Sm petrel	1	se			
	wedgetail	1	se		dark	
1014	wedgetail	1	sw		dark	
1015	Fairy tern	1	ne			
	P.I. petrel	2	ne			
1019	Wedgetail	1	ne		dark	

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



DATE 12 June 1965  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1022	wedgetail	1	Ne		dark	
1025	coons <sup>N, W</sup>	1	N			
1026	sooty tern	2	sw			
	wedgetail	1			dark (visibility now < 2 mile)	
1028	wedgetail	1	S		dark	
1031	sooty tern	2				
1040	wedgetail	1	E		dark	
1047	Fairy tern	1				
1054	Sooty tern	5	E			
	Fairy tern	3	E		visibility now about 3 miles	
1059	wedgetail	1	E		dark	
1100	small pteridrom	1	N.W.			
	wedgetail	1	N.W.		dark	
1103	"	1	"		dark	
1115	wedgetail	1				
1118	W.T. tropicbird	1				
1123	wedgetail	1			dark	
1125	Phoenix I. Petrel	1	N			
	wedgetail	3	N		dark	
1145	wedgetail	1			dark	
1150	"	1			"	
1154	"	1			"	
1208	"	1			"	
1208	"	1			"	
1208	"	1			"	
1208	Sm. Pterod.	1				
1208	Phoenix Is.	1				
1215	wedgetail	1			dark	
1215	BFB	1				
1220	Bulwers	1				
FF	WADON					
1240	Sooty Tern	50 <sup>+</sup>			3 coll, all dark but 2 or 3 Feeding, true underneath	
	wedgetail	35 <sup>+</sup>			1 coll.	
	Bulw Pet	3			Bulwers Pet 1	
	JFP	3				
	BFB	2			1 coll capt.	
1340	wedgetail	1				
1347	wedgetail	2			dark	
1349	Sooty Tern	3				
1351	"	1				
1352	wedgetail	2			dark	
1355	Charismatic S.	1				
1356	JFP	1				
1358	wedgetail	1			dark	
1415	Sooty Tern	2				
1416	wedgetail	1			dark	
1431	Sooty Tern	2			half dark	
	wedgetail	1			dark	
1432	White neck	1				

W 62/24  
CP 4/2  
ST 67/8  
FT 4/2  
PT 2/2  
WTT 1  
PIP 2/2  
BFB 3/2  
BP 1  
JFP 4/2  
CIS 1  
WNP 1  

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152/39

SI-MNH-958e  
7-28-64

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



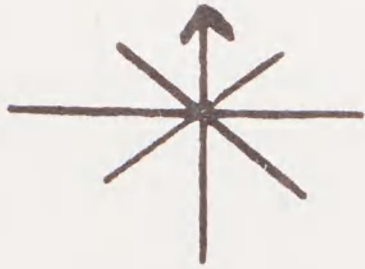
DATE 12 June 1965  
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1434	Wedgetail	2			dark	
1436	<del>Cook's Pet</del>	1				
1441	Wedgetail	1			dark	W 34/24
1450	"	2			dark	CP 5/5
1452	"	1			"	ST 6/4
1501	Sooty Tern	2	S			PIP 1/4
1503	Wedgetail	1			dark	BFB 6/4
1504	"	1			"	PT 1
1506	"	2			"	BP 3/3
1507	Sooty Tern	1	SE			JFP 3/3
1508	Phoenix H. Pet	1				F 2/2
1510	<del>Cook's Pet</del>	1				WNP 1
1512	Wedgetail	3			dark	62/43
1515	BFB	3				
1523	Wedgetail	1			dark	
1526	"	2			"	
1531	"	1			"	
1532	Sooty Tern	1			"	
1534	Wedgetail	1			" call	
1553	Small Pterodroma	1			dark head and neck, definite dark W on lighter wings and back	
1600	Wedgetail	1			white underneath	
1605	<del>Cook's Petrel</del>	1			dark	
1607	Wedgetail	1			dark	
1615	"	2			"	
1620	Sooty Tern	2	S			
1627	BFB	1				
1630	Wedgetail	1			dark	
1632	Bulwers Pet.	1				
1637	JFP	1				
1640	Wedgetail	1			dark	
1643	JFP	1				
1644	BFB	1				
1647	Wedgetail	1			dark	
1652	BFB	1				
1655	Wedgetail	1			dark	
1700	<del>Frigate</del> <del>Cook's Pet</del>	1				
	Wedgetail	2			dark	
	JFP	1				
1705	Wedgetail	1			dark	
1707	"	1			"	
1723	"	2			"	
	Bulwers	1				
	Frigate	1				
1727	White-neck P.	1				
1735	Wedgetail	2				
1740	<del>Cook's Pet</del>	1				
1740	Bulwers	1				

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

DATE 12 June 65  
Pg. # 4



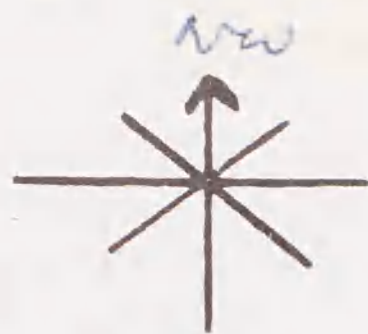
time	species	#	dir.	hgt.	remarks	loc.
FF 1510	Sooty Tern	100	I		Feeding, then jumping	
	Wedgetail	60	I			
	Frigate	2				
	BFB	2				
	AFB	2				
	JFP	3				
	<del>Cook's Petrel</del> S.W.	2				
	Newell,	1				

172 / 1  
62 / 43  
132 / 39  
314 / 35  
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699 / 118  
700

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

DATE 13 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0531					Sunrise	
0542	Cook's B.W	1				
0544	Sooty Tern	2			Ad. & Imm.	
0545					Course change	
0613	Pterodroma	1	N			
0615	Sm. Pterodroma	1	NW			CP 3/2
0617	wedgetail	2			dark	ST 32/2
0620	white-neck	2			SE	PT 6/6
0628	white neck	1			S	W 33/12
0632	wedgetail	1	S		dark	WNP 4/3
	lg. Pterod.	1				JFP 11/9
0635	Wedge tail	1	S			RFB 5/1
0635	JFP	1				FT 2/1
0635	Pterodroma	1				KP 1
0645	JFP	1				S-P 3/2
FF 0650	Sooty Tern	30				100/36
	Wedgetail	15	E			
	Red-foot	5	E			
	Fairy Tern	2				
	JFP	1				
0733	Wedgetail	1	NW		dark	
0733	Pterodroma	1	S			
0737	Wedgetail	1			light	
0740	"	1			dark	
	Kermadec	1			"	
0743	JFP	1	NW			
0745	Cook's B.W	2	NW			
0752	JFP	1			Sitting on water	
0756	Shear-Petrel	1	NW			
0807	wedgetail	1			dark	
0810	"	1			"	
0814	"	2			"	
0819	JFP	2	N			
0825	Shear-petrel	2			horizon	
0832	JFP	1	NW			
0833	wedgetail	1			dark	
0835	"	1			"	
0843	JFP	1	NW			
0852	wedgetail	1			dark	
0855	large pterodrom	1	NE			
0900	wedgetail	1	W		dark	
0905	"	1	W			
	JFP	2	NE			
0910	wedgetail	1	N		dark	
0915	"	1	"		"	
0918	whiteneck	1			coll. Harrington	

1269 P.E. extern  
coll. Harrington

1269 P.E. extern

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



DATE 13 Jun  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0932	Sm. pterodrom	1	NE			
0940	JFP	1	NW			
0945	WNP	1	W			PT 1
0946	JFP	1	SE			9FP 16/12
0949	Wedgetail	1	W		dark	WNP 7/10
0950	"	1	W		"	W 20/17
0952	"	2	NW		"	CP 3/3
0955	JFP	1	SE			S-P 3/2
0957	JFP	1	E			FT 1
	<del>Wedge</del> Petrel	1				ST 5/2
1000	Wedgetail	1			dark	
1001	WNP	1	SE			56   4
1006	Wedgetail	1	SE		dark	
1012	JFP	1	W			
1020	Shear Petrel	1	SE			
1026	Wedgetail	1	SW		dark	
1028	JFP	2	NW			
1030	WNP	1	SW			
1031	JFP	1	W			
1037	Wedgetail	1	NW		dark	
1035	WNP	1	NW			
1037	Wedgetail	1	NW		dark	
1039	"	1	NW		"	
1047	JFP	2	W			
1049	JFP	1	NW			
1053	Fairy Tern	1	E			
1054	Shear Petrel	2	W			
1058	JFP	2	NW			
1100	Wedgetail	1	W		dark	
1102	<del>WNP</del>	1	W			
1103	Sooty Tern	1	SE			
F 1108	Sooty Tern	1	E			
	Wedgetail	2			dark	
	JFP	3			Travelling	
	WNP	1				
1114	Wedgetail	1	W		dark	
1115	"	1	W		"	
1122	"	1			dark	
1122	JFP	1				
1126	Wedgetail	2	W		dark	
1130	White Neck	1	W			
1133	COOK 7.0	1				
1137	Wedgetail	1			dark	
1145	COOK 7.0	1	W			
1300	Wedgetail	1			light	

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

DATE 13 June 1965  
Pg. # 3



	time	species	#	dir.	hgt.	remarks	loc.
FF	1325	Sooty Tern	30±				
		Wedgetail	120±			5± light 2 dark coll. Harrington	
		9FP	6±			1 coll - Harrington	
		WNP	3±			1271 <u>P.e. externa</u> collected	
	1400	<del>Cook</del> <sup>W</sup>	2				
	1428	Wedgetail	1			dark	
	1505	9FP	1				
	1521	Sm. Pterodroma	1				
	1538	Wedgetail	1			dark	
	1611	"	1				
	1611	"	1				
F	1630	Sooty Tern	15	I			
		white necks	3±	I			
		JFP	7±	I			
		Wedgetail	5±				
	1638	wedgetail	1			light	
	1645	White neck	2	S			
		SFP	1	S			
	1724	Wedgetail	2			dark	
	1736	"	1			"	
F	1740	Sooty Tern	5				
		Wedgetail	6±				
	1814					Sunset	

ST 50/3  
 W 139/10  
 9FP 15/4  
 WNP 8/3  
 CP 2/1  
 PT 1  


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 215/14  
 155/8  


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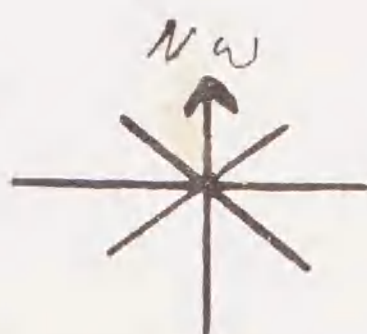
 360/9

1274 P.e. externa coll.

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

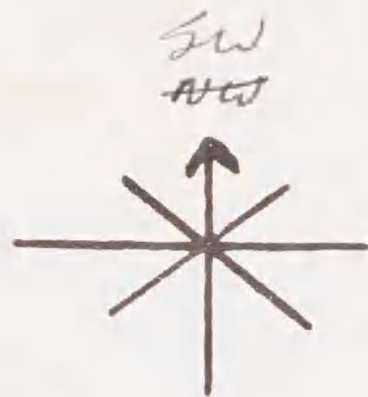
DATE 14 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0531					Sunrise	
0543	WNP	1			on water; yawned, took off	
0559	Pterodroma	1				
0630	JFP	1				
0639	JFP	1	NW			
0645	Wedgetail	1	E			
0702	WNP	1	NW			
0745	WNP	1	W			
0749	"	1				WNP 7/5
0754	Bulwers	1	S			Pt 3/3
F 0815	Sooty Tern	15+			10 sitting on water, docks	JFP 20/10
	Wedgetail	25				W 41/10
	JFP	10				BP 2/2
0900	JFP	1				ST 2/2
1015	JFP	1	E			PRTT 1
1022	Wedgetail	1			dark coll. (B&H.)	S-P 5/4
1040	JFP	1	NW			CP 2/1
1145	PTTB	1				102/31
F 1314	Sooty tern	6	E			
	Shear-petrel	2	W			
1415	Small-pterodrom.	1	W			
1506	Wedgetail	2			dark	
1623	Shear-Petrel	1			instant, in sun	
1628	"	1			" " "	
1628	"	1			" " "	
1639	Pterodroma	1			huddled on water, flew ~50', repeatedly	
1646	Wedgetail	1			dark	
1650	"	2			joined by 1646	
	JFP	1				
F 1655	JFP	2	NW			
	WNP	3				
	Looks P.	2				
	Wedgetail	3			- 1 light phase	
1700	JFP	1				
1705	Bulwers	1				
1710	all still with boat.					
1720	Wedgetail	3			dark - 3 on water, 1 coll. Warrington	
	JFP	1				
1805	Wedgetail	2			dark - got off water	
1813	"	1			"	



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

DATE 15 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0604	Sooty Tern	1				
0655	Wedge PT	1			sitting on water	
0710	Sooty Tern	1	NE			
0725	WTTB	1			call	
0823	Sw. Pterodrom	1				
0809	Wedge-tail	1	SE			
0926	Shear-Petrel	1	W			
0953	JFP	1	W			
1058	Wedgetail	1			DARK	
1132	COOK	1	SE			
1150	WNP	1	S			
1247	COOK	1	S			
	Wedgetail	1	S		light phase	
1300	change course to SW - enter grid					
1310	Pterodroma	1				
1340	white-neck	1	N			
1351	"	1			got off water	
1430	JFP	1				
1520	Wn. T. Tropic	1				
1550	Wedgetail	1	NW		dark	
1615	Wedgetail	1				
1739	COOKS	1	W			

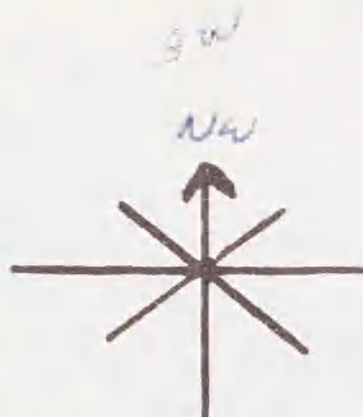
	<u>OG</u>	<u>IC</u>
ST	2/2	
CP	4/4	1
WTT	1	1
PT	1	1
S-P	1	
JFP	1	1
W	2/2	2/2
WNP	1	2/2
	<u>13/12</u>	<u>8/8</u>



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

DATE 17 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0550					Sunrise Two all dark? birds, at least one with streamer, reported by budge hovering over ship for ~10 min 0530	
0615	Pterodroma	1	NW			
0624	Wedgetail	2	NW		dark } flying like Pterodroma	
0629	<del>Shear-Pet</del>	1	N		light }	
0629	Wedgetail	1	N			
0633	Bonin H. Pet	6	SW			
0647	Shear-Petrel	8	W			
0651	WNP	9	E			
0703	Shear-Petrel	1	NW			
0731	Sooty Tern	2			horizon	PT 5/5
	Shear-pet	1-2				W 46/6
0748	Sm. Pterodroma	1			little black under wing	ST 5/5
0805	<del>Cook's W</del>	1			coll - Husted	BIP 1
0814	Wedgetail	1	NW		light	WNP 3/2
0817	<del>Cook's W</del>	1	NW			BT 160/5
0819	Sm. Pterod.	1	SE			CP 3/3
0831	"	1	NW			JFP ?
0831	"	1	S			FT 3/2
0835	Shear-Pet	1	SE			Q 2/1
0851	Sooty Tern	3	SE			KP 3/1
0900					Turned	RTT 2/2
0912	Wedgetail	1			coll - Husted light	
0934	Sooty Tern	1				234/27
1008	Wedgetail	1	SW			
FF 1045	Sooty Tern	150±			including ~40 imm, 1 imm orange Yng	
	Wedgetail	40±			30 dark 1 light coll. 1 ad. " "	
	JFP	1				
	Fairy Tern	2				
	<del>Jaeeger</del>	2			Long tailed?	
<del>1150</del>	<del>RTTB</del>	<del>1</del>	<del>SW</del>			
	White neck	2				
	Kermadec	3			2 light, 1 dark	
1115	<del>Cook's W</del>	1				
1117	RTTB	1				
1150	"	1				
1158	Fairy Tern	1				
1203	Sooty Tern	4			2 ad, 2 imm, appeared as though adults were teaching young to feed - flying 15' above water, repeatedly touching down, young almost lighting.	

reported on  
Sooty Tern  
in presence  
of  
Pterodroma

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7-28-64

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

DATE 17 June 1965  
Pg. # 2



	time	species	#	dir.	hgt.	remarks	loc.
	1207	Pterodroma	1	NE		Cooks? little black below	
F	1210	Wedgetail	10			on water - dark	
	1210	WNP	1				
	1210	9FP	1				
	1231	Sooty Tern	2			Ad. & imm.	
	1244	"	2			" "	
	1247	"	2			2 ad.	
	1302	WTTB	1				PT 1
	1305	Sooty Tern	2	SW			W 14/5
F	1402	" "	5			(1 coll. hatched) ✓ 1/0	WNP 2/2
F	1410	" "	9				9FP 1
F	1458	" "	15	NE			ST 62/11
	1504	" "	2	NE			WTT 1
	1524	Wedgetail	1	NE		dark	FT 1
	1530	"	1	N			Bird ?
	1535	Fairy Tern	1				
	1535	Sooty Tern	3	SW			1 83/23
	1547	Wedgetail	1			dark	2341
	1630	Tropicbird?	1			on water	-17
	1705	WNP	1	SE			
	1810	Sooty Tern	3	SE			
F	1830	"	17				
	1835	Wedgetail	1			dark	

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

DATE 18 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0545	Wedgetail	1			light	
0556	Shear-Pet	1			Pterodroma or light wedgetail	
~ 0600					Sunrise	
0616	RTTB	1				
0626	Wedgetail	1			light	
0647	Pterodroma	1			} joined	
0653	White-neck	1				
0712	"	1	NNW			
0717	Pterodroma	1	S			
0719	"	1	S			
0750	Sooty Tern	4	SE			
0758	Wedgetail	1	S			
0803	Sooty Tern	2	SE			
0824	Cooks <sup>9:10</sup>	1			coll. (BAH)	
0830	Wedgetail	1			light coll-KA circling over & dabbling	
0832	JFP-WN	1			around downed Cooks	
<del>0838</del>						
0902	Cooks <sup>9:10</sup>	1			on water chased for 10 min, lit 3 times	
0918					after flying few hundred yards	
0929	Cooks <sup>9:10</sup>	1			turn to NE	
1010	Cook's Pet <sup>9:10</sup>	1				
1017	JFP	1				
1030	Shear-Pet	1				
1042	Wedgetail	1			dark	
1104	Cook's Pet <sup>9:10</sup>	1				
1126	Wedgetail	1				
1140	Shear-Pet	1				
1354	JFP	1				
1434	"	1	W			
1524	Cook's Pet <sup>9:10</sup>	1	NE			
1545	Shear-Pet	1				
1636	Cooks <sup>9:10</sup>	1	S			
1718	Shear-Pet	1	SW			
1742	White-neck	1	W			
1745	Sooty tern	2	NW		ad and imm	
1747	"	"	NE		" " "	
1807	Fairy Tern	1				
1816	Pterodroma	1	S			
1820	Sooty tern	3				
1821	"	1				

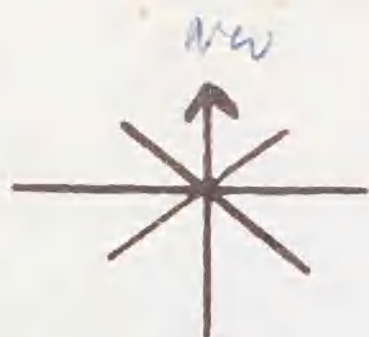
RTTB 1  
W 5/5  
PT 5/5  
WNP 3/3  
ST 14/6  
CP 7/8  
S-P 4/4  
JFP 3/3  
FT 1

Total - 43/35

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

DATE 19 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0553					Sunrise	
0600					Turn to NW	
0604	Sooty Tern	1	E			
0609	"	1	SE	150'	Seering in spirals like a Frigate	
0615	Newells	1	SW			
0621	Shear-Pet	1	S			
0625	Sooty Tern	1	SW			
0626	Sm. Pterodroma	1	SW			ST 100/13
0630	Pterodroma	1	SW			NS 2/2
0634	JFP	1	SW			S-P 3/3
0639	Wedgetail	1	W			PT 9/8
0640	JFP	1			Sitting on water	JFP 3/3
0652	Pterodroma	1	NW			W 7/5
0654	Shear-Pet	1	SW			Tn 1
0715	Pterodroma	1	SW			WNP 3/2
0727	Wedgetail	1			dark	RTT 4/2
0732	Tropicbird sp	1			Sitting on water	CP 5/5
0733	Shear-Pet	1	S			Bird 1
0806	Sooty Tern	1	S			
0823	"	2	S			
F 0825	"	20				138/45
0900	Sooty Tern	1	SW			
F 0905	Sooty Tern	25	W		Traveling	
F 0906	Sooty Tern	6			3 coll, 3 immature (husted)	
	Wedgetail	2			dark	
0940	White neck	1	Sitting		coll (Harrington)	
0950	RTTB	1			coll ( " )	
1005	COOKS SW	1				
1010	"	1	W			
1015	Sooty Tern	1	E		coll (Harrington) Turn SW	
1109	Wedgetail	1	SW		dark	
1117	RTTB	1			coll (husted)	
1130	COOKS SW	1			quite dark underwing	
1137	"	2				
1145	WHITE NECK	2				
F 1215	Sooty Tern	25			Adult & immatures Traveling	
1345	Newell's Shear	1				
1400	Shear-Pet	1				
1422	Wedgetail	2			dark	
1528	Cook's? Pet	1			appeared dark backed, underwing heavy black	
1539	"	2				
1559	"	1				
1711	RTTB	1			Sitting on water	
1715	Sooty Tern	4	NW			
1716	JFP	1	SW			
1800	RTTB	1				
1844	Bird	1			Frigate?	
F 1845	Sooty Tern	12				

$$\begin{array}{r} 7.69 \\ 13 \overline{) 100.00} \\ \underline{91} \\ 90 \\ \underline{78} \\ 120 \\ \underline{117} \end{array}$$

$$\begin{array}{r} 3.06 \\ 45 \overline{) 138.00} \\ \underline{135} \\ 300 \\ \underline{270} \end{array}$$

$$\begin{array}{r} 1.18 \\ 27 \overline{) 32.00} \\ \underline{50} \\ 230 \\ \underline{216} \\ 14 \end{array}$$

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7-28-64

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



DATE 20 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0607					Sunrise	
0716	JFP	4	SW			
0734	JFP	2	SW			
0745	COOKS <sup>B, W</sup>	1				
0800					→ shift to Ne course	
0805	Sooty tern	1	N		imm	
0830	COOK <sup>B, W</sup>	1	W			
0837	RTTB	1				
0841	JFP	1	W			
0842	COOKS Pet	1	SW			
0905	COOKS Pet	1	SW			
0916	" "	1	SW			
1010	" "	1	SW			
1019	Shear. Petrel	1				
1057	JFP	1	W			
1215	COOKS <sup>B, W</sup>	1	W			
1231	" "	1	NE			
1234	wedgetail	1	NE		dark	
1250	COOKS <sup>B, W</sup>	1	N			
1317	White neck	1	SW			
1334	COOKS <sup>B, W</sup>	2	N			
1337	Kermadec	1	NE			
1401	COOKS Pet <sup>B, W</sup>	1	SW			
1409	" "	1	SE			
1530	Shear Petrel	1	W			
1502	" "	2	SW			
1837	COOKS Petrel <sup>B, W</sup>	1	W			
1907	Sooty					

JFP 7/4  
CP 13/13  
ST 1  
RTT 1  
S-P 3/3  
W 1  
WNP 1  
RP 1  

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28/25



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

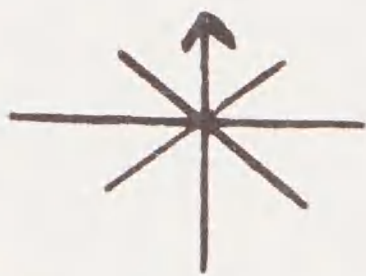
DATE 21 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0554					Sunrise	
0554	Sooty Tern	1	ENE			
0605	Wedge tail	1			light	
0606	Sooty Tern	2	ENE			
0614	<del>Cook's S. W</del>	1	SW			
0621	Sooty Tern	2	ENE			
0628	Tropic bird <del>WT</del>	1			Appeared size of White-tail, no black on wings, black cap, black or orange bill, upper surfaces grayish (Just call it a bird) diff. not WTT! off.	
0632	<del>Cook's S. W</del>	1	N			
0650	"	1	NW			
0700	Sooty Tern	1				
0732	WNP	2	NW			ST 411/23
0745	<del>Cook's S. W</del>	1				W 13/4
0800	Sooty Tern	1	SW			CP 9/8
0820	Sooty Tern Frigate	200 1			Travelling	WTT 1
0823	Sooty Tern	320			Travelling	WNP 2/1
0833	Sooty Tern	3				GF 5/3
0834	JFP	1				RFP 1
0845	Wedgetail sooty tern	1 1	E "		light	RTT 4/3
0850	RFB	2			one quite pink	PT 1
0925	<del>Cook's S. W</del>	2				B 1
0928	Sooty Tern	1				448/42
1027	"	1				
1035	"	1	ENE		Imm. flying with ship, trying to come aboard?	
1039	"	2			Ad. + Imm.	
1041	"	1				
1041	"	1				
1041	Wedgetail	1			Dark	
1107	Sooty Tern	5	ENE		Imm., behaving as 1035, with ship ~ 10 min	
1129	"	2	SW			
1200	Frigate wedgetail sooty tern	3 10 200				
1256	Sooty Tern	4			2 immatures	
1319	RFB	1				
1330	Sooty Tern	1	NE			
1342	<del>Cook's S. W</del>	1	SW			
1351	Sooty Tern	1	SE			
1404	Sooty Tern	7	E		Travelling up high	
1411	Frigate	1	⊙			
1420	RTTB	1				
1459	<del>Cook's S. W</del>	1			with on water	
1535	<del>Cook's S. W</del>	1	SW			
1550	Phaethon	1	SW		probably a dark JFP, dark on underwing mainly at tip	
1551	Bulwer's Pet	1				
1610	Sooty Tern	120	SW		immatures	

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



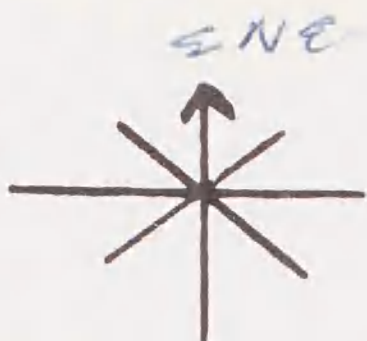
DATE 21 June  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1615	WTTB	1			1 call	
1630	Fringale	2			1 call	
F 1710-20	Sooty Tern	45	S		all very low over water in very loose formation pattern; Flying swiftly.	
F 1735	" "	10	S		Two seen with orange streamers. → same as above except 2 small groups rather than several small scattered groups.	
1752	" "	2	SE			
1754	" "	2	SE			
1806	" "	3	E			
F 1820	" "	9	SE		Travelling	
1821	" "	2	"		"	
F 1822	" "	6	"		"	
1825	JFP	1	W			WTT - 1
1831	Sooty Tern	1	SE			F - 2/1
1832	" "	2	"			ST - 92/16
1833	" "	1	"			9FP - 1
1834	" "	1	"			<u>96/19</u>
1835	" "	2	"			
1836	" "	3	"			
1837	" "	2	"			
1852	" "	1	"			
1856	<i>[Handwritten signature]</i>	1				

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

DATE 22 June 1965  
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0535					Sunrise	
0547	Bulwers	1				
0550	Shear-Pet	1			light brown <sup>?</sup> above, very white below; undertail <sup>?</sup>	
0607	Pterodroma	1				
0614	Sooty Tern	1				
0625	<del>Cooks</del> <sup>B.W</sup>	1	NW			
0658	Shear-Pet	1			glimpsed on horizon	
0700	Sooty Tern	2	ENE			
0702	Wedgetail	1			dark	
0706	Sm. Pterodroma	1	N			
0733	"	1				
0733	Sooty Tern	2				
0737	WTTB	1				
0810	Wedgetail	1	SE			
0836	Sooty Tern	1	SW			
F 0858	Sooty Tern	22	SW		up high, travelling fast	
0905	"	3	S			
0910	Shear-Petrel	1	NE			
F 0921	Sooty Tern	19	SW		" " " "	
0924	Frigate	1	SW		heading for flock	
0933	<del>Cooks</del> <sup>B.W</sup>	1	NW			
0950	Shear-Pet	1	W			
1000	Sm. Pterodroma	1	NW			
1002	RTTB	1			on water	
1005	<del>Sm. Pterodroma</del> <del>Cooks</del> <sup>B.W</sup>	1			in air	
1038	RTTB	2			off water	
1107	Sooty Tern	1	SW			
1150	WTTB	1				
1223	<del>Cooks</del> <sup>B.W</sup>	1	N			
1243	"	1				
1243	Sooty Tern	1				
F 1258	"	35 ±	W			
	Frigate	2				
1300	Wedgetail	1			1 wd flock	
1302	"	2				
1310	Sooty Tern	2	NW			
1355	Wedgetail	1	S			
FF 1415	Frigate	3			1 coll - KA	
	Sooty	35				
	Wedgetail	5 ±				
	JFP	3				
	<del>Cooks</del> <sup>B.W</sup>	2				
1510	Tropicbird sp?	1			horizon	
1555	<del>Cooks</del> <sup>B.W</sup>	1				
1606	Wedgetail	1			high T	
1612	RTTB	1				
1650	<del>Cooks</del> <sup>B.W</sup>	1				

BP 1  
S-P 3/3  
PT 4/4  
ST <sup>12</sup> 12  
CP 4/8  
W 12/7  
WTT 2/2  
F 6/3  
RTT 4/3  
T<sub>1</sub> 1  
JFP 3/1

~~169~~ 169  
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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG -- E



DATE 22 June 65  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1720	RTTB	1			behind ship several minutes, flew off to	
1740	Bulwers	1			port + dove once, then back for a few minutes	
1844					Sunset	

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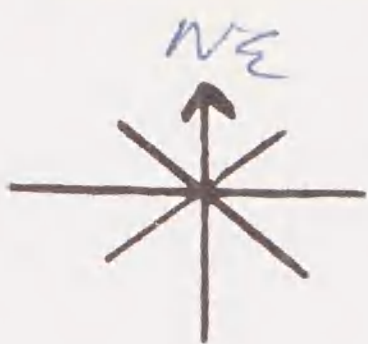
SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG -- E

DATE 23 June 1965  
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0520					Sunrise	
0552	Wedgetail	1	SE			
0600	Bulwers	1	NW			
0603	Shear-Pet	1	SE			
0611	Wedgetail	1				
0645	Shear-Pet	1	W			W 69/17
0655	<del>Cook's Petrel</del>	1	NW			BP 5/5
0720	Wedgetail	1	W			S-P 5/4
0731	Wedgetail	1	N			CP 7/7
0750		1	N			ST 97/5
0820	<del>Cook's Pet</del>	1	NW			F 1
0905	<del>Cook's Pet</del>	1	SW			WTTB 1
0940	Shear-Pet	2	NE			CIS 1
0957	Wedgetail	1	S			PT 2/2
1004	Sooty Tern	1	S			FT 1
1028	<del>Cook's Pet</del>	1	NW			
1032	Frigate	1	W			
1037	Sooty Tern	1	W			189/42
1050	Shear-Pet	1	SW			
1055	Wedgetail	3				
1056	WTTB	1				
1057	Sooty Tern	3				
1102	<del>Cook's Pet</del>	1				
F 1120	Sooty Tern	80			2 coll	
	Wedgetail	40			4 coll	
1230	Christmas Is. Shear	1	SW			
1246	Sm Pterodrom.	1	N			
1255	Fairy Tern	1				
1330	Wedgetail	1	SW			
1336	"	1	E			
1347	Small Pterodrom.	1	E		Probably Bonin Is. Pet	
1405	<del>Cook's Pet</del>	1	N			
1436	Bulwers	1	W			
1441	"	1	W			
1459	Wedgetail	1	NW			
1510	"	1	SE			
1518	"	1	NW			
1526	"	1	NW			
1532	<del>Cook's Pet</del>	1	NW			
1542	Wedgetail	4			on water	
F 1558	Wedgetail	9				
	Sooty Tern	12			1 coll - 14 started	
1605	Bulwers	1				
1616	Wedgetail	1				
1619	Bulwers	1	NW			



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

DATE 24 June 1965  
Pg. # 1

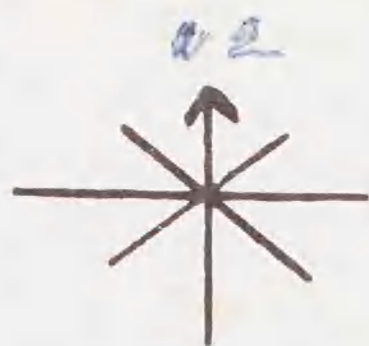
time	species	#	dir.	hgt.	remarks	loc.
0610					Sunrise	
0622	Newells	1	NE			
0623	Bulwers	1				
0626	Newells	3	NE			
0631	Dark Rump	1	SE			
0631	Bulwers	1				
0642	Wedgetail	1				
0645	Newells	2	NE			
0654	Bulwers	1				
0656	Shear-Pet	1	NE			
0656	Newell	2	NE		possibly same as 0645	
0657	Sp. Procellariid	1				
0709	RTTB	1				
0720	Shear-Pet	1				
0730	Bulwers	1				
0732	Shear-Pet	1				
0735	Sooty Tern	1				
0736	Wedgetail	1				
0745	shear-pet	1				
0747	Newell	1	NE			
0755	Wedgetail	1	NE			
0800	Newells	1	N			
0800	Sooty T.	2	W			
0808	"	1	NE			
0813	Bulwer	2			on water	
0813	"	1				
0819	Wedgetail	1				
0821	Gray back	1	NE			
0827	Sooty Tern	3	SE			
0836	Shear-Pet	1				
0841	Wedgetail	1	S			
0842	Sooty Tern	2				
0843	RTTB	1				
0845	Sooty Tern	1				
0846	"	2			coll. - Harrington	
0846	Wedgetail	1				
0846	Sooty Tern	1				
0855	Newells	1				
0856	Sooty Tern	1				
0901	"	1				
FF 0905	Sooty Tern	40+				
	Wedgetail	20				
	Frigate	2			1 coll	
0918	RTTB	2			1 coll	

NS 11/7  
BP 7/6  
DRP 1  
W 27/7  
S-P 5/5  
PT 1  
RTT 4/3  
ST 55/11  
GBI 1  
F 2/1  

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113/41

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

DATE 24 June 1965  
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0927	RTTB	2			calling & wheeling	
0930	wedgetail	2				
0935	Bulwers	1				
0943	"	1				
0950	RTTB	2			returned 1015, $\frac{2}{2}$ coll.	
1000	WTTTB	1				
1005	wedgetail	1				
1006	Shear-Pet	1				
1006	Bulwers	1				
1015	<del>RTTB</del>	1	RTTB		<del>with 2 RTTB above, coll. with 2 RTTB + 1 WTTTB</del>	
1036	wedgetail	1				
1039	Bulwers	1				
1045	wedgetail	1				
1051	Bulwers	1				
1052	wedgetail	1				
1053	Bulwers	1				
1058	"	1			off water?	
1119	Newells	1	NE			
1211	Tropic bird	1				
1226	wedgetail	1				
1226	G.B. Tern	2				
1231	Sooty	2				
1234	Newells	1				
1240	Sooty Tern	2				
1240	"	2				
1249	Bulwers	1				
1307	wedgetail	1			coll - Hannington	
1313	RFB	1			coll - Hunted	
1326	Bulwers	1			on water - coll - Amerman	
1342	Cook's	1				
1355	wedgetail	1				
1359	RFB	1				
1359	Newells	1				
1405	Bulwers	1				
1407	Sooty Tern	2				
1431	"	1			coll - Amerman	
1433	wedgetail	1			circling downed Sooty	
1446	"	1				
1449	Tern com	1	RIP			
F 1515	Sooty Tern	4				
	G.B. Tern	1				
	wedgetail	1				

RTTB 5/3  
W 12/11  
BP 10/10  
WTTTB 1  
S-P 1  
NS 3/3  
Tr 1  
GBT 3/2  
ST 13/6  
RFB 2/2  
CP 1  

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52/38



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

DATE 24 June 1965  
Pg. # 3



time	species	#	dir.	hgt.	remarks	loc.
1528	RFB	1				
1530	Sooty Tern	1				
1530	Frigate	1			Ad. ♀	
1535	Bulwers	1			coll - Husted	
1545	RTTB	1				
FF 1545	Sooty Tern	25+				
	Wedgetail	20+			1 dark, 1 light coll.	
	Red-foot	7			5 ad. white	
	Blue-faced	1				
	Frigate	1			same as 1430? Ad ♀	
	C. Noddy	12+2				
	Newells	2			1 coll.	
	G.B. Tern	2				
1644	Wedgetail	1				
1655	Sooty tern	1				
1710	Bulwers	1				
1710	Shear-Pet	1				
1741	Dark rump	1				
1749	Shear-Pet	1				
1751	Bulwers	1			coll - Harrington	
1800	Wedgetail	1				
1805	Newells	1			off water	
1805	Sooty Tern	4	N		1 coll. low, fast directional flight	
1815	"	2	N		" " " "	
1816	"	2	N		" " " "	
1825	"	2	N		" " " "	
1825	Shear-Pet	1				
1831	Bulwers Pet	1				
1831	sooty tern	1	N			
1843	"	3	N			
1846	Wedgetail	1				
1903	sooty tern	8	N			
"	Newells	1	SW			

RFB 8/2  
ST 49/10  
F 2/2  
BP 4/4  
RTTB 1  
W 23/4  
BFB 1  
CN 12  
NS 4/3  
GBT 2/1  
S-P 3/3  
DRP 1  

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110/26

PAU

DATE SUNDAY 6 JUNE 1965

Time at sunrise = 0541 Position at sunrise = L 16°-24'N λ 153°-20'  
 Time at sunset = 1837 Position at sunset = L 15°-08'N λ 151°-56'  
 Miles traveled from 0000 hours to sunrise = 58  
 Miles traveled from sunrise to sunset = 110  
 Miles traveled from sunset to 2400 hours = 58

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0530	* LORAN	153°-21'	16°-25'
2.	1036	o LORAN	152°-48'	15°-56'
3.	1215	LORAN	152°-37'	15°-43'
4.	1500	"	152°-19'	15°-26'
5.	1900	"	151°-52'	15°-07'
6.	2200	"	151°-53'	14°-38'

DATE MONDAY 7 JUNE 1965

Time at sunrise = 0540 Position at sunrise = L 13°-24'N, λ 152°-20'  
 Time at sunset = 1825 Position at sunset = L 12°-40'N, λ 151°-09'  
 Miles traveled from 0000 hours to sunrise = 55  
 Miles traveled from sunrise to sunset = 100  
 Miles traveled from sunset to 2400 hours = 53

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	152°-18'	13°-54'
2.	0800	o LORAN	152°-31'	13°-14'
3.	1250	o LORAN	151°-53'	12°-59'
4.	1505	o LORAN	151°-38'	12°-55'N
5.	1906	LORAN	151°-04'	12°-37'N
6.				

DATE TUES. 8 JUNE 1965

Time at sunrise = 0538 Position at sunrise =  $11^{\circ}-22'N, 150^{\circ}-30'W$   
 Time at sunset = 1816 Position at sunset =  $11^{\circ}-06'N, 148^{\circ}-55'W$   
 Miles traveled from 0000 hours to sunrise = 59  
 Miles traveled from sunrise to sunset = 99  
 Miles traveled from sunset to 2400 hours = 54

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0030	LORAN	150°-30	12°-13
2.	0448	LORAN	150°-30	11°-30
3.	1200	☉/LAN	149°-39	11°-15
4.	1500	LORAN	149-19	11°-12
5.	1900	LORAN	149-00	11°-00
6.				

DATE WED. 9 JUNE 1965

Time at sunrise = 0538 Position at sunrise =  $9^{\circ}-42'N \lambda 150^{\circ}-04W$   
 Time at sunset = 1818 Position at sunset =  $8^{\circ}-17'N \lambda 151^{\circ}-17W$   
 Miles traveled from 0000 hours to sunrise = 55 mi.  
 Miles traveled from sunrise to sunset = 112  
 Miles traveled from sunset to 2400 hours = 47

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	<del>00300</del>	LORAN	149°-48	10°-05
2.	0500	"	150°-00	9°-47
3.	1615	☉	151°-05	8°-31
4.	2030	*	151°-27	8°-14
5.	2300	* / ↘	151°-44	7°-54
6.				

DATE THURS 10 JUNE 1965

Time at sunrise = 0553 Position at sunrise = L 7°-02'N λ 152°-28'W  
Time at sunset = 1827 Position at sunset = L 6°-04'N λ 153-38'W  
Miles traveled from 0000 hours to sunrise = 59  
Miles traveled from sunrise to sunset = 90  
Miles traveled from sunset to 2400 hours = 40

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	1200	O/LAN	153°-04'	6°-36'
2.	1405	O	153°-12'	6°-20'
3.	1900	STARS	153°-41	6°-02
4.	2130	STARS	153°-54	5°-50'
5.				
6.				

DATE FRIDAY 11 JUNE 1965

Time at sunrise = 0605 Position at sunrise = L 6°-07'N λ 155°-06'  
Time at sunset = 1842 Position at sunset = L 6°-33'N λ 156°-49'  
Miles traveled from 0000 hours to sunrise = 60  
Miles traveled from sunrise to sunset = 107  
Miles traveled from sunset to 2400 hours = 41

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0200	LORAN	154°-28	5°-48'N
2.	0600	STARS	155°-05	6°-07'N
3.	1200	O/LAN	155°-51	6-17
4.	2200	STARS	157°-09	6°-39
5.				
6.				

DATE SAT. 12 JUNE 1965

Time at sunrise = 0617 Position at sunrise =  $L-7^{\circ}-02'N, \lambda 158^{\circ}-30'W$   
Time at sunset = 1856 Position at sunset =  $L-7^{\circ}-29'N \lambda 160^{\circ}-15'W$   
Miles traveled from 0000 hours to sunrise = 63  
Miles traveled from sunrise to sunset = 108  
Miles traveled from sunset to 2400 hours = 49

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0200	LORAN	157°-47	6°-49'
2.	0600	LORAN	158°-28	7°-01'
3.	0728	⊙	158°-41	7°-05'
4.	2100	STARS	160°-29	7°-32'
5.				
6.				

DATE SUN 13 JUNE 1965 TIME XRAY AFTER 0500

Time at sunrise = 0531 Position at sunrise =  $L-08^{\circ}-02'N \lambda 162^{\circ}-03'W$   
Time at sunset = 1814 Position at sunset =  $L 9^{\circ}-21'N \lambda 163^{\circ}-32'W$   
Miles traveled from 0000 hours to sunrise = 64  
Miles traveled from sunrise to sunset = 119  
Miles traveled from sunset to 2400 hours = 58

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0418	LORAN	161-49	7-55
2.	0630	⊙/LORAN	162-11	8°-09
3.	0900	⊙/LORAN	162- <del>48</del> <sup>28</sup>	8-27
4.	1200	⊙/LAN	162-48	8-47
5.	1700	⊙/LORAN	163°-20	9°-23
6.	2200	STARS	163°-59	9°-49

DATE MON. 14 JUNE 1965 (TIMES XRAY)

Time at sunrise = 0537 Position at sunrise = L 10°-40'N, λ 164°-54' W  
Time at sunset = 1828 Position at sunset = L 12°-00'N, λ 166°-37' W  
Miles traveled from 0000 hours to sunrise = 57  
Miles traveled from sunrise to sunset = 132  
Miles traveled from sunset to 2400 hours = 57

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0500	STARS	164-48W	10-36N
2.	1100	⊙/LORAN	165-36W	11-18
3.	1400	⊙/LORAN	166-00	11-38
4.	1900	STARS	166-41	12-04
5.				
6.				

DATE TUE. 15 JUNE 1965

Time at sunrise = 0543 Position at sunrise = L 13°-20'N, λ 168°-08'  
Time at sunset = 1848 Position at sunset = L 13°-26'N, λ 169°-52'  
Miles traveled from 0000 hours to sunrise = 62  
Miles traveled from sunrise to sunset = 128  
Miles traveled from sunset to 2400 hours = 65

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0100	LORAN	167°-29	12°-51
2.	0700	⊙ LORAN	168°-18	13°-28
3.	1200	LAN/⊙	168°-57	14°-04
4.	1700	⊙/LORAN	169°-36	13°-43
5.	2300	*'s	170°-23	12°-58
6.				

DATE WED 16 JUNE 1965

Time at sunrise = 0550 Position at sunrise =  $\angle 12^{\circ}-21'N, \lambda 171^{\circ}-19'W$   
 Time at sunset = 1854 Position at sunset =  $\angle 13^{\circ}-48'N, \lambda 170^{\circ}-39'W$   
 Miles traveled from 0000 hours to sunrise = ~~67~~  
 Miles traveled from sunrise to sunset = 122  
 Miles traveled from sunset to 2400 hours = 47

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0530	STARS	171 <sup>o</sup> -47	12-18
2.	0900	0	171 <sup>o</sup> -42	12-45
3.	1200	0/LORAN	171 <sup>o</sup> -20	13-01
4.	1500	LORAN	171 <sup>o</sup> -04	13-20
5.	1900	STARS	<del>170</del> <sup>o</sup> -38	13-49
6.	2300	*LORAN	170 <sup>o</sup> -40 <sup>13</sup>	14-17

DATE THURS 17 JUNE 1965

Time at sunrise = 0548 Position at sunrise =  $\angle 15^{\circ}-09'N, \lambda 169^{\circ}-38'W$   
 Time at sunset = 1855 Position at sunset =  $\angle 14^{\circ}-31'N, \lambda 171^{\circ}-09'W$   
 Miles traveled from 0000 hours to sunrise = 60  
 Miles traveled from sunrise to sunset = 123  
 Miles traveled from sunset to 2400 hours = 53

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0524	STARS	169 <sup>o</sup> -34	15-06
2.	1200	0/LORAN	170 <sup>o</sup> -18	15-19
3.	1400	0/LORAN	170 <sup>o</sup> -33	15-04
4.	1700	0/LORAN	170 <sup>o</sup> -56	14-45
5.	1900	STARS	171 <sup>o</sup> -10	14-31
6.				

DATE FRIDAY 18 JUNE 1965

Time at sunrise = 0605 Position at sunrise = L 13°-30'N, λ 172°-39'W  
Time at sunset = 1900 Position at sunset = L 14°-53'N, λ 172°-03'W  
Miles traveled from 0000 hours to sunrise = 63  
Miles traveled from sunrise to sunset = 116  
Miles traveled from sunset to 2400 hours = 44

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0245	STARS	172°-15	13°-38'
2.	0530	"	172°-34	13°-26
3.	0924	⊙/LORAN	173-01	13-53
4.	1200	⊙/LAN/LORAN	172°-45	14°-08
5.	1400	⊙/LORAN	172°-32	14°-21
6.	1900	STARS	172°-03'W	14°-53

DATE SATURDAY 19 JUNE 1965

Time at sunrise = 0553 Position at sunrise = L 16°-10'N, λ 170-50  
Time at sunset = 1901 Position at sunset = L 15°-40'N, λ 172-24  
Miles traveled from 0000 hours to sunrise = 60  
Miles traveled from sunrise to sunset = ~~91~~ 132  
Miles traveled from sunset to 2400 hours = 53

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0530	Stars	170-53	16-08
2.	0700	⊙/LORAN	170°-57	16-19
3.	1030	⊙/LORAN	171-17	16-41
4.	1400	⊙/LORAN	171-45	16-17
5.	1700	⊙ LORAN	172-10	15°-55
6.	1900	STARS/LORAN	172°-24	15°-40



DATE SUNDAY 20 JUNE 1965

Time at sunrise = 0608 Position at sunrise = L 14°-50'N, λ 173°-55'W  
Time at sunset = 1905 Position at sunset = L 16°-18'N, λ 172°-57'W  
Miles traveled from 0000 hours to sunrise = 69  
Miles traveled from sunrise to sunset = 123  
Miles traveled from sunset to 2400 hours = 45

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0240	STARS/LORAN	173-29	14-43
2.	0700	☾/LORAN	174-03	14-58
3.	1200	⊙/LAN/LORAN	173-43	15-31
4.	1600	⊙/LORAN	173-19	15-57
5.	1930	STARS	172-55	16-20
6.	2324	*/LORAN	172-30	16-46

DATE MONDAY 21 JUNE 1965

Time at sunrise = 0554 Position at sunrise = L 17°-43'N, λ 171°-30'W  
Time at sunset = 1855 Position at sunset = L 17°-43'N, λ 169°-56'W  
Miles traveled from 0000 hours to sunrise = 58  
Miles traveled from sunrise to sunset = ~~45~~ 129  
Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0230	LORAN	172-04	16-59
2.	0530	STARS	171-34	17-13
3.	0900	⊙/LORAN	171-01	17-18
4.	1200	⊙/LAN/LORAN	170-34	17-28
5.	1720	⊙/LORAN	169°-51	17°-46
6.	2300	*/LORAN	168°-56	18°-03

DATE TUES, 22 JUNE 1955

Time at sunrise = 0535 Position at sunrise =  $L 18^{\circ}20'N, \lambda 167^{\circ}53'$   
 Time at sunset = 1844 Position at sunset =  $L 18^{\circ}54'N, \lambda 165^{\circ}55'$   
 Miles traveled from 0000 hours to sunrise = 53  
 Miles traveled from sunrise to sunset = ~~NM~~ 124  
 Miles traveled from sunset to 2400 hours = 45

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0500	Stars	167-58	18-19
2.	0930	LORAN	167-17	18-32
3.	1200	$\odot$ /LAN/LORAN	166-55	18-40
4.	1500	$\odot$ /LORAN	166-31	18-44
5.	1900	Stars/LORAN	165-53	18-54
6.	2300	LORAN	165-20	19-04

DATE WED 23 JUNE 1956

Time at sunrise = 0520 Position at sunrise =  $L 19^{\circ}23'N, \lambda 164^{\circ}30'$   
 Time at sunset = 1834 Position at sunset =  $L 19^{\circ}54'N, \lambda 162^{\circ}53'$   
 Miles traveled from 0000 hours to sunrise = 42  
 Miles traveled from sunrise to sunset = ~~NM~~ 100  
 Miles traveled from sunset to 2400 hours = 42

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0506	Stars	164-33	19-23
2.	0930	LORAN	163-57	19-33
3.	1200	LAN/LORAN	163-42	19-42
4.	1900	Stars	162-51	19-55
5.	<del>19</del> 2242	LORAN	162-20	20-04
6.				

DATE THURS. 24 JUNE 1965 (TIMES W HIKKEY AFTER 0500)

Time at sunrise = 0607 Position at sunrise =  $L 20^{\circ}-20'N, \lambda 161^{\circ}-15'W$

Time at sunset = 1922 Position at sunset =  $L 20^{\circ}-45'N, \lambda 159^{\circ}-33'W$

Miles traveled from 0000 hours to sunrise = 53

Miles traveled from sunrise to sunset = 100

Miles traveled from sunset to 2400 hours = 42

	<u>TIME OF FIX</u>	<u>TYPE OF FIX</u>	<u>LONGITUDE W</u>	<u>LATITUDE N</u>
1.	0200	LORAN	$161^{\circ}-54'$	$20^{\circ}-10'$
2.	1100	LORAN	$160^{\circ}-37'$	$20^{\circ}-28'$
3.	1500	LORAN	$160^{\circ}-03'$	$20^{\circ}-36'$
4.	1812	"	$159^{\circ}-43'$	$20^{\circ}-41'$
5.	2250	"	$159^{\circ}-02'$	$20^{\circ}-55'$
6.				

DATE FRI. 25 JUNE 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 =

	<u>TIME OF FIX</u>	<u>TYPE OF FIX</u>	<u>LONGITUDE</u>	<u>LATITUDE</u>
1.				
2.				
3.				
4.				
5.				
6.				

DATE FRIDAY, 4 JUNE 1965

Time at sunrise = 0549 Position at sunrise = HONOLULU  
Time at sunset = 1905 Position at sunset =  $\angle 20^{\circ}-11'N \lambda 157^{\circ}-01'W$   
Miles traveled from 0000 hours to sunrise =  
Miles traveled from sunrise to sunset = 84 mi  
Miles traveled from sunset to 2400 hours = 48 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	1200	VIS/RADAR	157-40W	21-00N
2.	1515	LORAN/VIS	157-28W	20-36N
3.	1900	LORAN	157-02'W	20-12N
4.	2318	"	156-28W	19-43'N
5.				
6.				

DATE SAT. 5 JUNE 1965

Time at sunrise = 0546 Position at sunrise =  $\angle 18^{\circ}-48'N \lambda 155^{\circ}-54'W$   
Time at sunset = 1848 Position at sunset =  $\angle 17^{\circ}-33'N \lambda 154^{\circ}-37'W$   
Miles traveled from 0000 hours to sunrise = 58  
Miles traveled from sunrise to sunset = 108  
Miles traveled from sunset to 2400 hours = 43

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0100	LORAN/VIS	156-16'	19-32'N
2.	0600	VIS/RADAR	155-53'	18-46N
3.	1220	LORAN/LORAN	155-17'	18-07'
4.	1718	@/LORAN	154-45'	17-40'
5.	2300	*/LORAN	154-11'	17-08'
6.				

P. J. Gould

SMITHSONIAN GRID I Survey No. 22

JUNE 1965

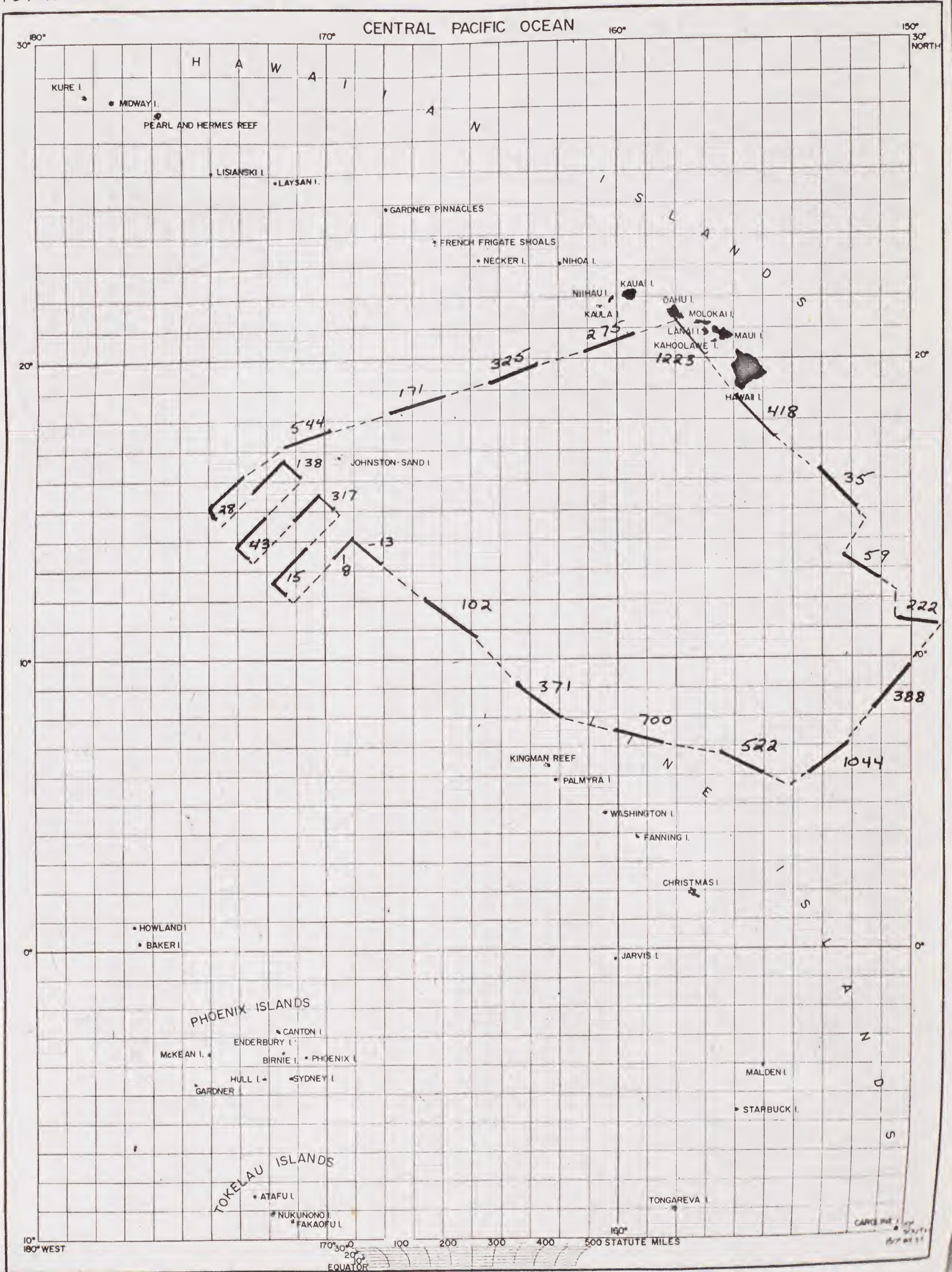
This report summarizes the observations and collections made at sea by Pacific Project personnel aboard the U.S.N.S. SHEARWATER during June, 1965. Project personnel included Kenneth Amerman (Biologist in Charge), Dayle Husted and Brian Harrington.

A total of 11.5 days were spent from Oahu to the Smithsonian Grid I, 5.5 days within the grid and 4 days returning to Oahu. During this time 267 hours of sunrise to sunset observations were conducted, 71 of these within the study grid.

A total of 124 birds of 14 species were collected (Table 7). Blood samples were obtained from 64 of these and 105 ectoparasite collections were made.

The course from Oahu was extended slightly farther east than in May since fairly high numbers of birds were recorded in the easternmost area reached last month. Comparable numbers of birds were recorded in this area both months. The course was continued southwest toward Christmas Island below 8°N to within 250 miles of that island. As expected, the numbers of birds increased substantially with greater proximity to the island. Due to the low numbers of birds observed within the Smithsonian Grid a straight line course was followed from the grid to Oahu, passing within 60 miles of Johnston Island. Numbers recorded along this path

TOTAL NUMBER OF BIRDS OBSERVED PER DAY, AT-SEA SURVEY, JUNE 4-24, 1965



were also comparable to those for May. As in May, a noticeable concentration of birds was encountered in the same area northwest of Johnston, indicating that this area is probably being utilized by birds from Sand-Johnston. Since numbers of Jarvis Island birds have consistently been recorded in the area northeast of the Line Islands, possibly most of the movement from these islands is to the north and east. If this is true, the present paucity of birds in the grid might indicate a similar distribution of Johnston Island birds, in which case even greater numbers may be expected in July northeast of the island in the area which has not been sampled these three months.

Approximately the same patterns of species distribution and population densities have been observed for all three visits to the area northeast of the Line Islands. However, many more birds were encountered this month on the path between Palmyra and Johnston Islands. These included numbers of dark phase Wedgetails and immature Sooty Terns, indicating a northward post-breeding dispersal of some southern birds.

Only 24 species were recorded in June, compared to 35 in May. This was reflected in lower average numbers of species for all areas. There also was a greater tendency for birds to occur in flocks outside the grid and for the flocks to be larger, indicated by higher birds per sighting figures.

Following are discussions of the principal species recorded outside the grid. Numbers and distribution of most other species did not differ significantly from May.

As in May, Wedgetailed Shearwaters were the only species present every day of the trip. Dark phase individuals were first encountered June 7 in the vicinity of 13°N. Dark birds constituted the majority of this species for the next 13 days, throughout the grid and to 17°N. Many individuals were noted with obvious gaps in the primaries due to molting feathers.

From June 7-9, between 13°N and 8°N, 37 all-dark birds were recorded which may have been Wedgetails but which more closely resembled petrels. None of these were observed undergoing obvious molt, as were many of the definite Wedgetails in the same area. It is possible that these birds were Murphy's Petrels.

Sooty Terns were more erratic in their distribution than Wedgetails, being absent some days and present in large flocks the next. This species was present in 58 of 71 mixed flocks (2 or more species). Immatures were observed in all areas except around Oahu. In nearly every sighting of immatures the birds were accompanied by one or more adults. Several adult young pairs were recorded and on at least one occasion two adults appeared to be instructing two young birds in methods of feeding. These adult-immature associations at sea parallel similar observations in the breeding colonies. Immatures were much more likely to approach the ship than adults, flying about it for several minutes as if attempting to land on a few occasions. A few birds were collected which possessed brood patches or partial ones but were undergoing molt in primaries, inner secondaries and/or tail. Two other birds with brown flecking on the underparts, possibly representing subadults, were collected, emphasizing the value of collecting large series of these birds at sea.



Juan Fernandez Petrels increased by 50% in June. As in May, the majority were concentrated south of  $11^{\circ}\text{N}$ , 187 being seen on June 9. Small numbers were seen daily above  $12^{\circ}\text{N}$  except near Oahu. Some individuals were noted in the same stage of molt as most of the birds in May but in most molt had progressed to the outer primaries. Movement was much less uniform in direction than in May.

Only 3 White-necked Petrels were recorded in May, while 67 were seen this month. The pattern of distribution was the same as for the Juan Fernandez Petrel, with two areas of high density below  $11^{\circ}\text{N}$  (Table 1). Nearly all individuals of this subspecies were also undergoing obvious molt in flight feathers.

Nearly three times as many Cook's Petrels were seen this month as in May. Distribution of this species tended to be much more uniform than for the larger Pterodroma, though two slight concentrations were again noted below  $11^{\circ}\text{N}$ . In contrast to the Juan Fernandez - White-neck pattern, the area between Johnston Island and Oahu also showed a higher density. No uniform northwest movement existed this month.

Blue-faced Boobies showed the same pattern of occurrence as in the previous two months, being limited almost entirely to the area north and northeast of the Line Islands. This population consists almost wholly of immature and sub-adult birds. For the first time birds in complete immature plumage were seen in addition to the older individuals with greatly varying amounts of white. These definite immatures probably represent recently fledged birds. Molt had progressed to the outer primaries in many of the older birds this month. Six more birds banded on Jarvis Island were collected.

Only 7 Leach's Storm Petrels were seen, from June 5-10, indicating that this species has moved north of our area.

A total of 21 birds recorded as Phoenix Island Petrels were seen, all below 8°N in areas nearest the Line Islands. However, the single individual collected appears to be a Tahiti Petrel (Pterodroma rostrata). This would represent only the second record of this species by the Project, but there is a strong possibility that most or all of the "Phoenix Island" Petrels recorded at sea in this area are instead Tahiti Petrels, in which case it appears that the two species cannot be separated at sea.

Only 6 Jaegers were present this month. One possible Pomarine Jaeger was seen on June 6. Three Long-tailed Jaegers were seen in a feeding flock on June 9 and two more possibly of this species were seen in the grid June 17.

## SMITHSONIAN GRID - June 1965

Numbers of birds within the grid remained unusually low in June. The total of 549 was slightly less than that for May. However, only two concentrations of birds were found, in the areas nearest to Johnston Island (see attached map). Eighty-two percent of all birds in the grid were in these areas. These areas were not covered by diurnal observations in May. Therefore, population densities over most of the grid are actually considerably less than in May. The data indicate that most birds utilizing areas south and west of Johnston Island in June remained within 100 miles of the island.

A total of 337 Sooty Terns were seen, comprising 61% of all birds within the grid. This total is nearly identical with that for May, only 1/3 the number present in April. However, no Sooty Terns were seen on two days this trip and only one on a third day (Table 1). Immature birds were observed within the grid for the first time this year. Two immatures with orange streamers were seen (Table 8.).

Wedgetailed Shearwaters increased in numbers from 20 in May to 78 in June (14% of the total), still unexpectedly low. However, this increase was entirely in dark phase birds (56), indicating that they were members of dispersing southern populations rather than individuals from Sand-Johnston. The presence of these probable southern birds in the grid in June is in contrast to the apparently well-defined separation of the two populations in May.

Pterodroma species, primarily Juan Fernandez=White-neck Petrels and Cook's Petrels, were again more numerous than Wedgetails, forming 17% of the grid total this month.

The total number of species observed within the grid in June was only 9, with an average of 6 per day, compared to 15 species seen in May, with an average of 10 per day.

No flocks were seen on four of the six days in the grid. The 11 flocks seen on the remaining two days contained 346 birds, or 63% of the grid total.



TABLE 1 Species Observed, June 1965 At-Sea.

	June	19	20	21	22	23	24	Total, Oahu to Grid	Total in Grid	Total, Grid to Oahu	Total
Black-footed Albatross								1	0	0	1
Wedge-tailed Shearwater		7	1	13	12	128	61	1682	78	214	1974
Christmas Is. Shearwater						1		3	0	1	4
Newell's Shearwater		2				2	18	32	2	20	54
Sooty Shearwater								1	0	0	1
Juan Fernandez Petrel		3	7	2	3			460	18	5	483
White-necked Petrel		3	1	2				51	14	2	67
Dark-rumped Petrel				1?			2	8	0	2	10
Cook's Petrel		5	13	9	9	11	1	84	34	30	148
Bonin Is. Petrel						1?		1	0	?	1
Kermadec Petrel			1					2	4	0	6
Phoenix Is. Petrel								21	0	0	21
Bulwer's Petrel				1	2	6	21	115	0	30	145
Leach's Storm Petrel								7	0	0	7
Red-tailed Tropicbird		4	1	4	5		10	15	10	19	44
White-tailed Tropicbird				2	2	1	1	4	2	6	12
Blue-faced Booby							1	48	0	1	49
Red-footed Booby							10	71	0	10	81
Greater Frigate				7	6	1	4	25	0	18	43
Sooty Tern		100	1	503	124	167	117	2011	337	911	3259
Gray-backed Tern							6	2	0	6	8
Common Noddy							12	161	0	12	173
Fairy Tern						1		18	5	1	24
Long-tailed Jaeger								3	?	0	3

TABLE 2 Summary of Observations Within Grid, June 1965.

<u>Date</u>	<u>Total Birds</u>	<u>Number of Species</u>	<u>Number of flocks</u>	<u>Birds/Sighting</u>	<u>Birds/Mile</u>	<u>Number of miles</u>	<u>Number minutes</u>
June 15	8	4	0	1.00	0.12	67	348
16	15	4	0	1.07	0.12	122	784
17	317	9	6	6.34	2.59	123	787
18	43	6	0	1.23	0.37	116	775
19	138	6	5	3.07	1.05	132	788
20	28	6	0	1.12	0.23	123	777
Total	549	9	11	4.69	0.80	683	4259
Average	92	6	2	2.47	0.91	114	710

TABLE 3 Diurnal abundance of species groups inside grid, June 1965.

<u>Date</u>	<u>Shearwater --Petrel</u>		<u>Terns</u>		<u>Tropicbirds</u>		<u>Boobies</u>		<u>Frigates</u>		<u>Storm Petrels</u>		<u>Number in flocks</u>	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
June 15	7	88	0	0	1	12	0	0	0	0	0	0	0	0
16	14	93	0	0	1	7	0	0	0	0	0	0	0	0
17	89	28	226	71	3	1	0	0	0	0	0	0	256	81
18	27	63	15	35	1	2	0	0	0	0	0	0	0	0
19	32	23	100	72	5	4	0	0	0	0	0	0	90	65
20	26	92	1	4	1	4	0	0	0	0	0	0	0	0
Total	195	36	342	62	12	2	0	0	0	0	0	0	346	63
Average	33	65	57	30	2	5	0	0	0	0	0	0	58	35
Birds/mile <sup>2</sup>	0.14		0.17		0.01		0		0		0		--	
Est. population	7500		8500		500		0		0		0		--	

TABLE 4 Distribution of birds by grid quadrants, June 1965.

	<u>East</u>		<u>South</u>		<u>North</u>		<u>West</u>	
	<u>Miles</u>	<u>Birds</u>	<u>Miles</u>	<u>Birds</u>	<u>Miles</u>	<u>Birds</u>	<u>Miles</u>	<u>Birds</u>
June 15	67	8						
16			122	15				
17	123	317						
18			10	4			106	39
19					132	138		
20					7	1	116	27
<b>Total</b>	190	325	132	19	139	139	222	66

Total = 0.804

1.711      0.144      1.000      0.297

TABLE 5 Summary of observations outside grid, June 1965.

	<u>Total Birds</u>	<u>Total Species</u>	<u>Total Flocks</u>	<u>Birds/ Sighting</u>	<u>Birds/ Mile</u>	<u>Minutes</u>	<u>Miles</u>
Oahu to Grid	5097	24	79	5.31	4.14	8599	1230
Average	425	9	7	4.71	4.49	717	103
Grid to Oahu	1315	15	22	5.12	2.95	3169	453
Average	329	10	6	5.57	2.90	792	113
<b>Total Outside Grid</b>	6412	24	101	5.27	3.81	11768	1683
<b>Average</b>	401	9	6	4.72	4.02	736	105

196.1

190  
132  
139  
222  
683

325  
19  
139  
66  
549

190  
132  
139  
222  
683

325  
19  
139  
66  
549



TABLE 6 Diurnal abundance of species groups outside grid, June 1965.

	Shearwater-Petrel		Terns		Tropicbirds		Boobies		Frigates		Storm Petrel		Number in Flocks	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Oahu to Grid	2728	54	2194	43	21	<1	121	2	25	<1	7	<<1	2939	58
Average	227	75	183	32	2	1	10	1	2	<1	1	1	245	61
Grid to Oahu	329	25	930	71	26	2	11	<1	18	1	0	0	1014	77
Average	82	28	233	67	7	2	3	1	5	2	0	0	254	69
Total Outside Grid	3057	48	3124	49	47	1	132	3	43	1	7	<<1	3953	62
Average	191	58	195	38	3	2	8	1	3	1	<1	1	247	60

TABLE 7 Birds collected, June 1965.

Wedgetailed Shearwater	36	Bulwer's Petrel	3
Christmas Is. Shearwater	1	Red-tailed Tropicbird	10
Newell's Shearwater	2	White-tailed Tropicbird	3
Juan Fernandez Petrel	6	Blue-faced Booby	20
White-necked Petrel	2	Red-footed Booby	1
Cook's Petrel	5	Greater Frigatebird	5
Phoenix Is. Petrel (?)	1	Sooty Tern	29
TOTAL		124	

TABLE 8 Location of banded or color-marked birds, June 1965.

Species	Date	Location	Band or streamer
Blue-faced Booby	June 9, 1965	9° 35' N, 150° 10' W	757-68582
Blue-faced Booby	June 10, 1965	6° 45' N, 152° 43' W	757-69181
Blue-faced Booby	June 10, 1965	6° 26' N, 153° 06' W	757-69890
Blue-faced Booby	June 10, 1965	6° 20' N, 153° 14' W	757-68728
Blue-faced Booby	June 11, 1965	6° 10' N, 155° 15' W	757-69661
Blue-faced Booby	June 12, 1965	7° 18' N, 159° 30' W	Band
Sooty Tern - immature	June 17, 1965	15° 07' N, 169° 35' W	Streamer
Sooty Tern - adult	June 17, 1965	15° 23' N, 170° 15' W	Streamer
Sooty Tern - immature	June 17, 1965	15° 23' N, 170° 15' W	Streamer





Date	# mi	# Hrs	# Birds	B/mi	# SP
15	65	5.8	8		4(+1)
16	122	13.1	15		4
17	123	13.1	317		9(+1)
18	116	12.9	43		6(+1)
19	132	13.1	138		6(+1)
20	123	13.0	28		6(+1)
	<u>681</u>		<u>549</u>		<u>10 (5.8 hr day)</u>

$0.8062$   
 $681 \times 0.8062 = 549.000$   
 $549$   
 $4086$   
 $4086 \times 0.8062 = 3294.000$   
 $3294$   
 $3294 \times 0.8062 = 2656.000$   
 $2656$   
 $2656 \times 0.8062 = 2140.000$   
 $2140$   
 $2140 \times 0.8062 = 1725.000$   
 $1725$   
 $1725 \times 0.8062 = 1390.000$   
 $1390$   
 $1390 \times 0.8062 = 1120.000$   
 $1120$   
 $1120 \times 0.8062 = 903.000$   
 $903$

Birds per lin mi = 0.81

~~est. Rep. 1/2~~

$1140$   
 $681$   
 $4590$

Species list in field -

Wedge-tail Shearwater = 78 (55 down phase)

Newell's Shearwater = 2

Bonin Island Petrel = 1

Cook's Petrel = 34

Juan Fernandez Petrel = 18

White-rumped Petrel = 13

Kermadec Petrel = 4 *not counted from 6-10 June*

Red-tail Tropicbird = 9

White-tail Tropicbird = 2 *not counted on 10th June*

Sooty Tern = 337

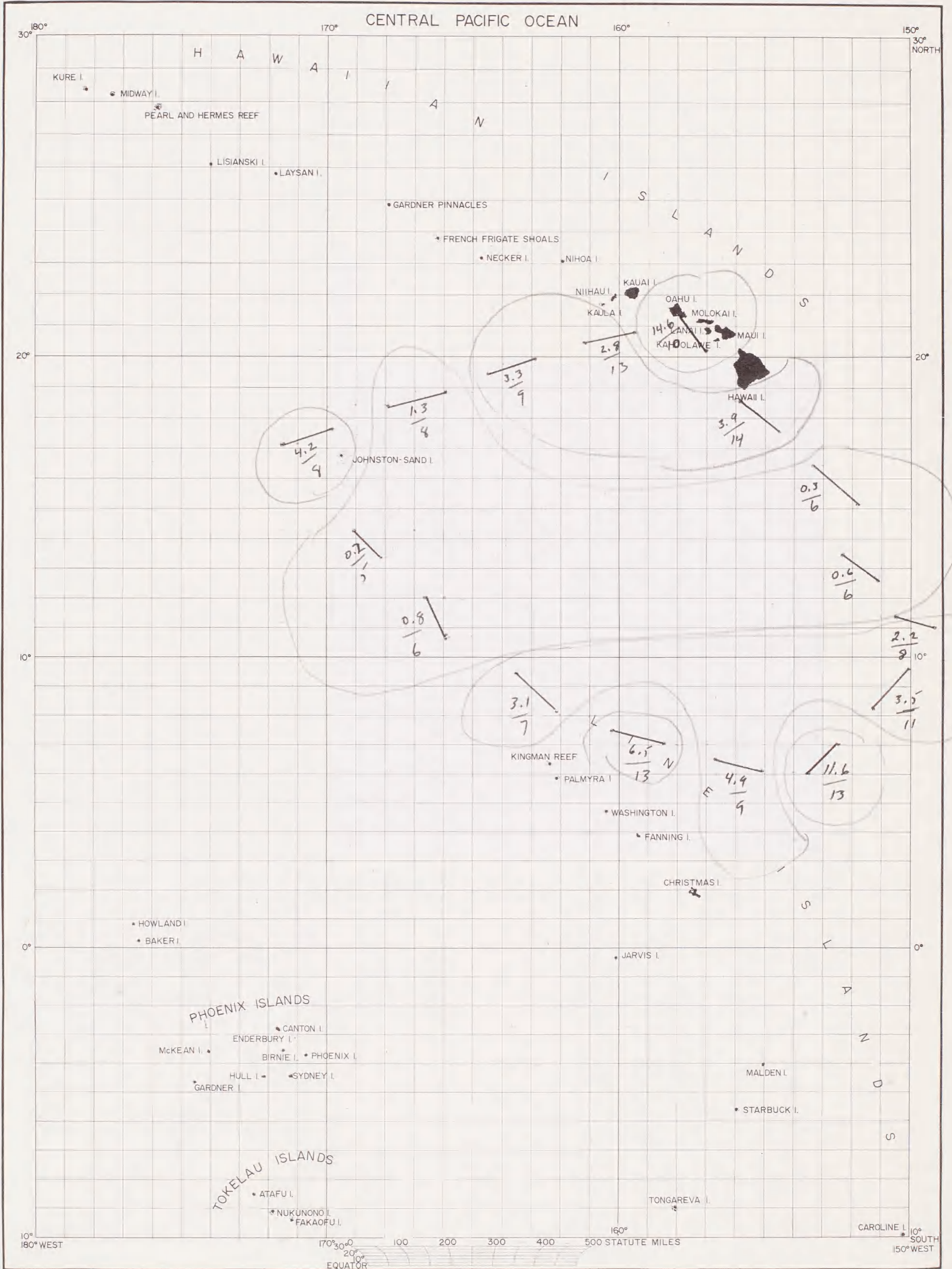
Fairy Tern = 5

*no doublets!  
system*

	# Birds	B/By. mi	est Pop	$\frac{T_0}{T_P}$
S-P	191	0.14	7,000	35%
Terns	342	0.17	8,400	62%
Tropics	12	0.01	450	0.2%
Frigates	0	0.00	0	0%
Booby	0	0.00	0	0%
Star Petrel	0	0.00	0	0%

Total 549 0.32+ 16,000

445



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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 24 June 1965 Total Minutes: 795 (0607-1922) Total Miles 100

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>105</u>	<u>275</u>	<u>2.62</u>	<u>2.75</u>

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
67	28	4	20	113	61	4	21	1.69	2.18	1	1.05	1.13	0.61	0.04	0.21

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
8	7	1	12	10	1	1.50	1.43	1	0.12	0.10	0.01

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>29</u>	<u>135</u>	<u>4.66</u>	<u>1.35</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			<u>0</u>

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	1	4	0	7	1	6	-	1.75	1	1.50	-	0.07	0.01	0.06	-

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>3</u>	<u>4</u>	<u>1.33</u>	<u>0.04</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>4</u>	<u>146</u>	<u>0.04</u>	<u>2</u>	<u>132</u>	<u>0.02</u>



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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 23 June 1965 Total Minutes: 794 (0520-1834) Total Miles 27 100

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
48	325	6.77	3.35 3.25

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				
41	20	11	6	155	128	13	6	3.78	6.40	1.18	1	1.55	1.28	0.13		4.60	4.32	0.13	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
		1			1			1			0.01

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
8	168	21	1.68 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

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.
4	271	0.04			

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 22 June 1965

Total Minutes: 789 <sup>0535-1844</sup> ~~(0520-1834)~~

Total Miles 47 <sup>124</sup>

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
43	171	3.98	<del>4.46</del> 1.38

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
24	7	12	2	33	12	16	2	1.38	1.71	1.33	1	0.26	0.10	<del>0.14</del>	0.13

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	2	7	5	2	<del>1.17</del>	1.25	1	0.06	0.04	0.02

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
12	124	10.33	<del>4.06</del> 1.00

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
3	6	2	0.05

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
4	126	0.03			

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 21 June 1965 Total Minutes: 791 (0544-1855) Total Miles 129

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
61	544	8.92	5.73 4.22

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
17	4	12	1	28	13	14	1	1.53	3.25	1.17	1	0.22	0.10	0.11	0.01
												0.29	0.14	0.15	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
5	3	2	6	4	2	1.20	1.33	1	0.05	0.03	0.02
									0.06	0.04	0.02

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
39	503	12.90	5.29 3.90

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
4	7	1.75	0.07 0.05

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	471	0.11 0.08	0		

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 20 June 1965 Total Minutes: 777 (0608-1905) Total Miles 123

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>25</u>	<u>28</u>	<u>1.12</u>	<u>0.23</u>

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
<u>23</u>	<u>1</u>	<u>20</u>	<u>0</u>	<u>26</u>	<u>1</u>	<u>22</u>	<u>-</u>	<u>1.13</u>	<u>1</u>	<u>1.10</u>	<u>-</u>	<u>0.21</u>	<u>0.01</u>	<u>0.18</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>		

IV. Abundance of Terns:

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

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 19 June 1965 Total Minutes: 788 (0553-1901) Total Miles ~~132~~ 132

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
45	138	3.07	1.05

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
27	5	18	0	32	7	20	-	1.19	1.40	1.11	-	0.24	0.05	0.15	-

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	1		2	1		1	1		0.02	0.01	

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
13	100	7.69	0.76

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
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.
5	90	0.04	0		

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 18 June 1965 Total Minutes: 775 (0605-1900) Total Miles 116

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>35</u>	<u>43</u>	<u>1.23</u>	<u>0.37</u>

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
<u>27</u>	<u>5</u>	<u>18</u>	<u>0</u>	<u>27</u>	<u>5</u>	<u>18</u>	<u>-</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>0.23</u>	<u>0.04</u>	<u>0.16</u>	

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>7</u>	<u>15</u>	<u>2.14</u>	<u>0.13</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 17 June 1965 Total Minutes: 787 (0548-1855) Total Miles 123

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>50</u>	<u>317</u>	<u>6.34</u>	<u>2.59</u>

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
30	"	15	0	89	60	20	-	2.97	<del>10.50</del> 5.45	1.33	-	0.72	0.49	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
3	2	1	3	2	1	1	1	1	0.03	0.02	0.01

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>18</u>	<u>226</u>	<u>12.56</u>	<u>1.84</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>6</u>	<u>256</u>	<u>0.05</u>	<u>1</u>	<u>200</u>	<u>0.01</u>

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 16 June 1965 Total Minutes: 784 (0550-1854) Total Miles 122

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>14</u>	<u>15</u>	<u>1.07</u>	<u>0.12</u>

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
<u>13</u>	<u>3</u>	<u>8</u>	<u>0</u>	<u>14</u>	<u>3</u>	<u>9</u>	<u>-</u>	<u>1.08</u>	<u>/</u>	<u>1.13</u>	<u>-</u>	<u>0.11</u>	<u>0.02</u>	<u>0.07</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					



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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

(Within Grid)  
DATE: 15 June 1965

Total Minutes: 348 (1300-1848) Total Miles 121 67

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>8</u>	<u>8</u>	<u>1</u>	<u>0.12</u>

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
<u>8</u>	<u>2</u>	<u>5</u>	<u>0</u>	<u>8</u>	<u>2</u>	<u>5</u>	<u>-</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>0.12</u>	<u>0.03</u>	<u>0.07</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

Outside Grid

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 15 June 1965 Total Minutes: 437 (0543-1300) Total Miles 61

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
12	13	1.08	0.21

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	2	7	0	10	2	7	-	1.11	1	1	-	0.16	0.03	0.11	-

III. Abundance of Tropicbirds:

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

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	2	1	0.03

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

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.
0					

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DIVISION OF BIRDS  
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DATE: 14 June 1965 Total Minutes: 971 (0537-1828) Total Miles 132

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
31	102	3.29	0.77

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
30	10	17	2	80	41	32	2	2.67	4.16	1.88	1	0.61	0.31	0.24	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
1			1			1			0.01		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	21	10.5	0.15

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
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	68	0.02			

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DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 13 June 1965 Total Minutes: 763 (0531X-1814) Total Miles 119

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
91	570	6.26	4.79

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
88	44	48	0	276	192	78	-	3.14	4.36	1.63	-	2.32	1.61	0.66	-

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
8	90	8.75	0.76

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
	1					5				5					0.04

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.
5	253	0.04	1	52	0.01

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 12 June 1965 Total Minutes: ~~637~~ <sup>759</sup> (0617-1856) Total Miles 108

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
118	700	5.93	6.48

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
91	64	28	5	333	282	41	5	3.66	4.53	1.46	1	3.08	2.61	0.38	0.05

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		1			1			1			0.01

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
28	344	12.58	3.19

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
9	7	2	0	14	11	3	-	1.56	1.57	1.50	-	0.13	0.10	0.03	-

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
4	12	3	0.11

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	535	0.06	3	519	0.03

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 11 June 1965 Total Minutes: ~~637~~<sup>757</sup> (0605-1842) Total Miles 107

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
85	522	6.14	4.88

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	39	15	3	199	163	23	3	3.43	4.15	1.53	1	1.86	1.52	0.21	0.03

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
5	5		6	6		1.20	1.20				0.06

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
21	306	14.57	2.86

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
9				9				1							0.08

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.
8	435	0.07	4	353	0.04

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DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 10 June 1965 Total Minutes: 754 (0553-1827) Total Miles 90

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
89	1044	11.73	11.60

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
68	41	37	3	418	303	106	4	6.15	7.39	2.86	1.33	4.64	3.37	1.18	0.04

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
18	596	33.11	6.62

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
15				19				1.27				0.21			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
5	8	1.60	0.09

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
11	931	8.12	3	648	0.03

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 9 June 1965 Total Minutes: 760 (0538-1818) Total Miles 112

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
96	388	4.04	3.46

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
83	14	64	1	319	56	227	1	3.84	4	3.55	1	2.85	0.56	2.03	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
2			2			1			0.02		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
6	58	9.67	0.52

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
8				9				1.13				0.08			

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.
16	274	0.14			



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DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 8 June 1965 Total Minutes: 758 (0538-1816) Total Miles 99

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
145	222	1.53	<del>2.24</del>

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
142	11	106	3	215	21	146	3	1.51	1.91	1.38	1	2.17	0.21	1.47	0.03

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		1	2		1	1		1	0.02	-	0.01

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
3	5	1.67	0.06

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
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.
4	47	0.04			

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 7 June 1965 Total Minutes: 765 (0540-1825) Total Miles 100

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>43</u>	<u>59</u>	<u>1.37</u>	<u>0.59</u>

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
<u>40</u>	<u>2</u>	<u>27</u>	<u>-</u>	<u>55</u>	<u>2</u>	<u>37</u>	<u>-</u>	<u>1.38</u>	<u>1</u>	<u>1.37</u>	<u>-</u>	<u>0.55</u>	<u>0.02</u>	<u>0.37</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>0</u>											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>2</u>	<u>12</u>	<u>0.02</u>			

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 6 June 1965 Total Minutes: 176 (0541-1837) Total Miles 110

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>24</u>	<u>35</u>	<u>1.46</u>	<u>0.32</u>

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
<u>21</u>	<u>9</u>	<u>12</u>	<u>2</u>	<u>32</u>	<u>17</u>	<u>12</u>	<u>2</u>	<u>1.52</u>	<u>1.89</u>	<u>1</u>	<u>1</u>	<u>0.29</u>	<u>0.15</u>	<u>0.11</u>	<u>0.02</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>1</u>	<u>6</u>	<u>0.01</u>			

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 5 June 1965 Total Minutes: 782 (0546-1848) Total Miles 108

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>86</u>	<u>418</u>	<u>4.86</u>	<u>3.87</u>

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
<u>71</u>	<u>28</u>	<u>18</u>	<u>14</u>	<u>211</u>	<u>109</u>	<u>22</u>	<u>14</u>	<u>2.97</u>	<u>3.89</u>	<u>1.22</u>	<u>1</u>	<u>1.95</u>	<u>1.01</u>	<u>0.20</u>	<u>0.13</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>3</u>	<u>3</u>		<u>3</u>	<u>3</u>		<u>1</u>	<u>1</u>		<u>0.03</u>	<u>0.03</u>	

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>12</u>	<u>202</u>	<u>16.83</u>	<u>1.87</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

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
<u>0</u>															

VII. Abundance of Frigatebirds:

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

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>5</u>	<u>315</u>	<u>0.05</u>			

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DIVISION OF BIRDS  
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 4 June 1965 Total Minutes: 515 (1030-1905) Total Miles 84

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
139	1223	8.80	14.65

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
97	45	1	48	584	498	1	81	6.02	11.07	1	1.69	6.95	5.93	0.01	0.96

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		1	2		1	1		1	0.02		0.01

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
41	570	13.90	6.79

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
			13				63				4.85				0.75

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	4	2	0.04

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
18	1063	0.21	1	57	0.01

FRIDAY 4 JUNE 1965

DATE FUE 2

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM% <sub>0</sub>	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700															
0800	21-30	158-00													
0900	21-23	157-55													
1000	21-15	-50													
1100	21-08	-45													
* 1200	21-00	157-40	FEW CLOS	20	1018	84	70	62	3	2	120-5-4	78	12	090	143-10
1300	20-53	157-35	"	20	1016	79	69	71	2	1	070-5-4	78	4	110	143-10
1400	20-46	157-28	"	20	1016	80	68	68	2	1	100-6-4	78	10	140	143-10
1500	20-37	157-24	PT CLDY	20	1016	79	69	71	5	4	100-6-5	78	12	160	143-10
1600	20-30	157-18	"	20	1016	79	69	71	7	5	100-6-6	78	15	095	143-10
1700	20-23	157-12	"	20	1017	79	69	71	5	3	090-6-6	78	20	080	143-9.5
1800	20-17	157-07	"	20	1017	79	69	71	7	5	090-6-6	78	20	080	" 9.0
1900	20-11	157-01	"	20	1017	79	69	71	7	5	080-6-6	78	23	075	" 8.5
2000	20-04	156-55	"	20	1017	76	67	74	5	2	070-6-5	78	18	085	" 8.0
2100	19-57	156-49	Few Cld	20	1018	77	69	78	2	1	000-6-4	78	0	AIRS	120 9.0
2200	19-51	156-42	"	20	1018	77	69	78	2	1	000-6-4	78	0	AIRS	120 9.0
2300	19-46	156-33	"	20	1018	77	69	78	2	1	000-6-4	78	0	AIRS	120 9.0
2400	19-32	156-25	"	20	1018	77	69	78	2	1	000-6-4	78	0	AIRS	120 9.0

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 SAT. 5 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL		SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
											WAVES					
0100	19°-32'	156°-17'	CLEAR	30	1016	78.2	69	75	1	1	000-6-3	79	4	025	153-10	
0200	19°-22'	156°-12'	"	30	1016	78	71	79	0	0	000-6-2	79	6	000	153-10	
0300	19°-10'	156°-05'	"	30	1016	78	69	75	0	0	000-6-2	79	6	100	" "	
0400	18°-59'	156°-00'	"	30	1016	78	69	75	0	0	000-6-2	79	7	090	" "	
0500	18-55	155-57	Few clds	20	1017	78	71	79	1	0	100-6-4	79	18	070	" "	
0600	18-46	155-53	" "	20	1017	77	71	82	4	1	170-6-4	79	20	080	" "	
0700	18-40	155-47	" "	15	1018	78	72	83	8	2	090-6-5	79	22	070	136 9.0	
0800	18-34	155-40	PHLY Cls	20	1018	78	69	75	6	3	090-6-5	79	18	070	" "	
0900	18-29	155-36	Few Cls	20	1019	78	71	79	4	2	090-6-8	79	15	090	136 9.0	
1000	18-22	155-29	"	20	1019	78	71	79	4	2	090-6-8	79	15	090	136 9.0	
1100	18-15	155-24	"	20	1019	78	71	79	4	2	090-6-8	79	15	090	136 9.0	
1200	18-07	155-18	"	20	1019	78	71	79	4	2	090-6-8	79	15	090	136 9.0	
1300	18-03	155-13	"	20	1018	78.2	71	79	4	2	090-6-9	79	18	080	136 9.0	
1400	17-56	155-08	"	20	1018	78	69	75	3	2	090-6-9	78	17	070	136 9.0	
1500	17-50	155-02	"	20	1017	78	69	75	3	2	090-6-9	78	18	075	136 9.0	
1600	17-44	154-55	"	20	1017	78	69	75	3	2	090-6-9	78	19	070	136 9.0	
1700	17-41	154-48	"	20	1017	78	69	75	5	3	090-6-9	78	22	070	" 8.0	
1800	17-37	154-39	"	20	1018	78	69	75	5	3	090-6-9	78	19	070	" "	
1900	17-32	154-34	"	20	1018	78	69	75	7	5	090-6-9	78	17	070	" "	
2000	17-26	154-29	"	20	1018	78	69	75	6	3	090-6-9	78	17	070	" "	
2100	17-21	154-23	"	20	1019	77	69	78	3	2	090-6-9	78	15	090	136 8.0	
2200	17-15	154-17	"	20	1019	77	69	78	3	2	090-6-9	78	15	090	136 8.0	
2300	17-08	154-11	"	20	1019	77	69	78	3	2	090-6-7	78	12	090	136 8.0	
2400	17-02	154-05	"	20	1019	77	69	78	3	2	090-6-7	78	12	090	136 8.0	

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 SUN. 6 JUNE 1965

2799

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL		SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
											WAVES					
0100	16-51	153-49	Few CLDS	20	1018	78	72	83	2	1	090-6-7	77	18	070	136	9.0
0200	16-45	153-42	"	20	1016	78	69	75	2	1	090-6-7	77	18	070	136	9.0
0300	16-38	153-34	"	20	1017	78	71	79	1	1	090-6-7	77	16	090	136	9.0
0400	16-32	153-28	"	20	1017	78	71	79	1	1	090-6-7	77	14	085	136	9.0
0500	16-29	153-24	PHy. Cls	20	1018	78	72	83	5	6	090-6-7	77	17	070	"	"
0600	16-22	153-17	Shast	20	1019	78	72	83	4	7	090-6-7	77	17	070	"	"
0700	16-15 11	153-11	"	20	1019	77	70	79	9	7	090-6-7	77	17	070	"	"
0800	16-14 12	153-05	"	20	1019	77	71	83	9	7	090-6-7	77	17	070	"	"
0900	16-07	152-58	Cloudy	20	1019	79	68	71	7	3	090-6-7	78	18	050	136	9.0
1000	16-00	152-51	"	20	1019	79	68	71	7	3	090-6-7	78	18	050	136	9.0
1100	15-53	152-44	"	20	1019	79	68	71	7	3	090-6-7	78	18	050	136	9.0
1200	15-47 15	152-38	"	20	1019	79	68	71	7	3	090-6-7	78	18	050	136	9.0
1300	15-40	152-31	"	20	1016	77	71	82	9	6	090-6-7	78	17	050	136	9.0
1400	15-33	152-26	"	20	1016	78	69	75	9	7	090-6-7	78	17	050	136	9.0
1500	15-26	152-20	"	20	1016	78	69	75	9	7	090-6-7	78	19	060	136	9.0
1600	15-20	152-13	"	20	1015	78	69	75	8	6	090-6-7	78	22	070	136	9.0
1700	15-17	152-07	"	20	1015	78	69	75	7	5	080-6-9	78	20	055	"	"
1800	15-12	152-00	"	20	1015	78	69	75	7	5	080-6-9	78	20	060	"	"
1900	15-07	151-52	"	20	1015	78	69	75	8	7	080-6-9	78	21	065	"	8.0
2000	15-00	151-46	PHy "	20	1015	78	69	75	4	7	080-6-9	78	21	055	"	"
2100	14-46	151-40	Cloudy	20	1016	78	69	75	7	5	080-6-9	78	15	060	200	10.0
2200	14-38	151-52	"	20	1016	78	69	75	7	5	080-6-9	78	15	060	200	10.0
2300	14-28	151-56	"	20	1016	78	69	75	7	5	080-6-9	78	15	060	200	10.0
2400	14-19	151-59	"	20	1016	78	69	75	7	5	080-6-9	78	15	060	200	10.0

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 MON 7 JUNE 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/SPEED
0100	14-11	152-07	PT CLDY	20	1016	78	72	83	6	4	080-6-9	78	16	070	200-10
0200	14-03	152-12	FEW CLDS	20	1015	78	72	83	3	2	080-6-9	78	15	080	200-10
0300	13-54	152-18	CLEAR	20	1014	78	72	83	0	0	080-6-9	78	17	065	200-10
0400	13-45	152-24	"	20	1014	77	73	87	0	0	080-6-9	78	19	070	200-10
0500	13-30 <sup>31</sup>	152-18 <sup>4</sup>	CLDY	15	1015	76	73	91	8	6	080-8-9	78	21	070	" 9.5
0600	13-28 <sup>29</sup>	152-21 <sup>7</sup>	"	20	1015	76	73	91	7	5	080-8-9	78	20	070	" "
0700	13-13 <sup>21</sup>	152-24 <sup>9</sup>	PTLY CLDY	20	1015	77	73	87	5	2	080-8-9	78	21	070	" "
0800	13-08 <sup>14</sup>	152-18 <sup>31</sup>	"	20	1015	78	72	83	3	1	080-8-9	78	17	070	115 9.0
0900	13-00	152-24	"	20	1017	77	72	87	5	4	080-8-9	78	15	070	115 8.0
1000	13-06	152-16	"	20	1017	77	72	87	5	4	080-8-9	78	15	070	115 8.0
1100	13-01	152-08	"	20	1017	77	72	87	5	4	080-8-9	78	15	070	115 8.0
1200	12-59	152-00	"	20	1017	77	72	87	5	4	080-8-9	78	15	070	115 8.0
1300	12-58	151-52	O'CAST	10	1014	78	74	87	10	10	080-8-9	79	14	050	115 8.0
1400	12-57	151-46	O'CAST	20	1013	79	73	83	10	8	080-8-9	79	14	045	115 8.0
1500	12-55	151-39	"	20	1013	79	73	83	10	9	080-8-9	79	20	065	115 8.0
1600	12-51	151-30	"	20	1012	79	73	83	10	9	080-8-9	79	16	070	115 8.0
1700	12-47	151-22	"	25	1012	78	74	87	10	9	080-8-9	79	13	075	" "
1800	12-43	151-13	"	20	1013	78	72	83	9	7	080-8-9	79	15	070	" "
1900	12-37	151-05	PTLY CLDY	20	1013	78	72	83	9	7	180-8-9	79	17	065	" "
2000	12-33	150-54	"	20	1013	77	71	83	8	6	180-8-9	79	17	070	" "
2100	12-30	150-45	O'CAST	20	1015	78	72	83	10	10	080-8-9	79	10	060	090 8
2200	12-30	150-36	"	20	1015	78	72	83	10	10	080-8-9	79	10	060	090 8
2300	12-30	150-26	"	20	1015	78	72	83	10	10	080-8-9	79	10	060	090 8
2400	12-20	150-26	"	20	1015	78	72	83	10	10	080-8-9	79	10	060	180 10

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 TUES 8 JUNE 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	12-08	150-30	O'cast	20	1013	78	74	87	10	8	080-8-9	80	15	050	180-10
0200	12-58	150-30	PT CLOUD	20	1014	77	76	95	6	5	090-8-9	80	16	060	180-10
0300	11-46	150-30	FEW CLOUD	20	1012	78	75	91	3	2	080-8-9	80	17	060	180-10
0400	11-36	150-30	"	20	1012	78	75	91	2	1	080-8-9	80	16	060	180-10
0500	11-26	150-31	PTLY CLOUD	20	1012	78	75	91	8	6	080-8-9	80	18	060	180-10
0600	11-21	150-27	O'cast	20	1012	79	75	87	7	7	080-8-9	80	15	070	180-9
0700	11-20	150-18	"	20	1013	79	75	87	9	7	085-8-10	80	17	070	180-9
0800	11-19	150-10	PTLY CLOUD	20	1013	80	75	83	8	5	080-8-10	80	16	070	180-9
0900	11-17	150-03	O'cast	20	1013	80	75	83	7	6	080-8-10	80	15	070	180-8
1000	11-17	149-54	"	20	1013	80	75	83	7	6	080-8-10	80	15	070	180-8
1100	11-16	149-45	"	20	1013	80	75	83	7	6	080-8-10	80	15	070	180-8
1200	11-16	149-39	"	20	1013	80	75	83	7	6	080-8-10	80	15	070	180-8
1300	11-15	149-34	PT. CLOUD	20	1012	85	75	80	6	4	080-8-10	80	20	060	180-8
1400	11-14	149-27	PT CLOUD	20	1012	85	75	80	8	6	080-8-10	80	19	050	180-8
1500	11-13	149-20	O'cast SHR.	15	1011	84	77	80	10	8	080-8-10	80	16	080	180-8
1600	11-12	149-12	" "	15	1011	82	77	84	10	9	080-8-10	80	18	070	180-8
1700	11-12	149-02	" "	20	1012	82	77	84	10	9	080-8-10	80	18	070	180-8
1800	11-08	148-53	" "	15	1012	81	77	87	10	9	080-8-10	80	20	070	180-8
1900	11-00	149-00	" "	20	1013	80	77	87	10	9	080-8-10	80	19	070	220-10
2000	10-52	149-07	O'cast	20	1013	80	77	91	10	9	080-8-10	80	20	070	220-10
2100	10-45	149-12	Cloudy	20	1014	80	77	91	8	7	070-7-8	80	15	070	220-8
2200	10-39	149-18	"	20	1014	80	77	91	8	7	070-7-8	80	15	070	220-8
2300	10-32	149-24	"	20	1014	80	77	91	8	7	070-7-8	80	15	070	220-9
2400	10-25	149-30	"	20	1014	80	77	91	8	7	070-7-8	80	15	070	220-10

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 WED 9 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL		SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
											WAVES					
0100	10-23	149-32	RAIN	5	1012	79	78	96	10	10	070-7-8	81	15	080	220-10	
0200	10-14	149-40	"	5	1012	79	78	96	10	10	070-7-8	81	14	085	220-10	
0300	10-05	149-48	"	5	1012	79	78	96	10	10	070-7-8	81	15	085	220-10	
0400	9-57	149-55	FEW CLOS	15	1011	80	77	91	2	1	070-7-8	81	13	080	220-10	
0500	9-47	150-00	PLy CLOS	20	1012	80	77	91	6	3	070-7-8	81	14	090	" "	
0600	9-39	150-07	O'cast	20	1013	81	77	87	7	7	070-7-8	81	15	076	" "	
0700	9-31	150-13	"	20	1013	80	76	87	10	7	070-7-8	81	15	075	" "	
0800	9-23	150-19	"/rain	15	1014	78	77	96	10	9	070-7-8	81	15	076	" "	
0900	9-18	150-25	RAID	8	1014	78	77	96	10	10	070-7-8	81	10	070	220-8.0	
1000	9-11	150-30	"	8	1014	78	77	96	10	10	070-7-7	81	10	070	220 8.0	
1100	9-05	150-35	"	8	1014	78	77	96	10	10	070-7-7	81	10	070	220 8.0	
1200	8-59	150-41	"	8	1014	78	77	96	10	10	070-7-7	81	10	070	220 8.0	
1300	8-54	150-46	"	8	1013	80	77	91	10	10	070-7-7	82	11	060	220 8.0	
1400	8-48	150-50	O'CAST	10	1012	82	77	84	10	9	070-7-7	82	10	050	220 8.0	
1500	8-43	150-55	"	12	1012	83	78	84	10	9	070-7-7	82	8	070	220 8.0	
1600	8-36 37	151-00	"	15	1012	82	79	84	10	9	070-7-6	82	10	060	220 10.0	
1700	8-26 32	151-09	PLy CLOS	15	1012	81	77	87	9	7	070-7-6	82	12	060	" "	
1800	8-18 27	151-14	" "	15	1012	81	77	87	8	7	070-7-6	82	15	060	" "	
1900	8-10 22	151-20	" "	20	1012	81	77	87	7	5	070-7-6	82	16	065	" "	
2000	8-03 17	151-27	" "	25	1012	81	77	87	7	5	070-7-6	82	15	070	" "	
2100	8-10	151-30	"	20	1013	80	79	91	7	5	070-7-6	82	15	070	220 10	
2200	8-02	151-37	"	20	1013	80	79	91	7	5	070-7-6	82	15	070	" 10	
2300	7-54	151-44	"	20	1013	80	79	91	7	5	070-7-6	82	15	070	" 10	
2400	7-47	151-50	"	20	1013	80	79	91	7	5	070-7-6	82	15	070	" 10	

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 THURS 10 JUNE 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	7-39	151-56	CLOUDY	20	1012	81	77	87	8	7	070-7-6	82	16	080	220-10
0200	7-31	152-04	"	20	1011	82	77	84	9	8	070-7-6	82	14	070	220-10
0300	7-23	152-10	FEW CLDS	20	1011	82	77	84	4	3	070-7-6	82	13	085	220-10
0400	7-16	152-16	"	20	1011	82	77	84	2	2	070-7-6	82	12	070	220-10
0500	7-08	152-22	PHLY CLDY	20	1011	81	77	87	7	5	070-7-6	82	13	078	" "
0600	7-01	152-29	"	20	1012	81	76	84	7	5	070-7-6	82	13	070	" "
0700	6-54 56	152-35	"	20	1013	82	77	84	5	3	070-7-6	82	15	085	" "
0800	6-46 52	152-42	"	20	1013	82	77	84	5	3	070-7-6	82	15	070	" "
0900	6-37 48	152-49	FEW CLDS	20	1013	83	74	73	2	1	070-7-6	82	15	090	220-10
1000	6-37 44	152-49 55	"	20	1013	83	74	73	2	1	070-7-6	82	15	090	220-10
1100	6-34 40	152-53 00	"	20	1013	83	74	73	2	1	070-7-6	82	15	090	220-10
1200	6-27 36	153-00 04	"	20	1013	85	74	73	2	1	070-7-6	82	15	090	220-10
1300	6-25 30	153-09	"	20	1012	85	75	73	2	1	070-7-6	82	12	060	225-10
1400	6-20 25	153-12	"	20	1011	85 85	77 77	76 76	4	3	070-7-6	82	13	070	225-10
1500	6-20	153-20	"	20	1011	85	77	76	5	3	070-7-6	82	12	070	225-10
1600	6-18	153-27	"	20	1011	85	77	76	4	3	070-7-6	82	13	075	225-10
1700	6-14	153-33	"	20	1011	85	77	76	3	1	070-7-6	82	13	070	225-8
1800	6-09	153-35	"	20	1011	86	78	77	3	1	070-7-6	82	12	070	" "
1900	6-02	153-41	"	20	1011	83	77	84	4	2	070-7-6	82	12	070	" 7.0
2000	5-57	153-46	"	20	1012	83	77	84	3	1	070-7-6	82	11	070	" 7.0
2100	5-52	153-50	"	20	1013	82	77	84	3	1	070-6-5	82	12	070	225 7.0
2200	5-47	153-56	"	20	1013	82	77	84	3	1	070-6-5	82	12	070	225 7.0
2300	5-46	154-02	"	20	1013	82	77	84	3	1	070-6-5	82	12	070	286 7.0
2400	5-47	154-09	"	20	1013	82	77	84	3	1	070-6-5	82	12	070	286 7.0

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 JUNE 11, 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/SPEED
0100	5-50	154-19	FEW CLDS	20	1012	82	77	84	3	2	070-6-5	83	11	070	286-9.5
0200	5-53	154-28	FEW CLDS	20	1011	82	77	84	4	3	070-6-5	83	10	070	286-9.5
0300	5-55	154-37	SHOWERS	20	1011	82	77	84	9	8	070-6-5	83	12	070	286-9.5
0400	5-58	154-46	"	10	1011	80	77	91	10	9	070-6-5	83	12	070	286-9.5
0500	6-04	154-56	"	10	1011	80	77	91	10	10	070-6-5	83	11	070	286-9.5
0600	6-07	155-05	Partly Cls	20	1011	80	77	91	5	3	070-6-5	83	9	070	286-9.5
0700	6-10	155-13	"	20	1012	82	79	88	5	3	070-6-5	83	11	070	286-9.5
0800	6-11	155-19	"	20	1012	84	79	84	5	3	070-6-5	83	13	070	286-10
0900	6-11	155-27	"	20	1013	85	77	80	6	4	060-6-5	83	12	060	285-10
1000	6-14	155-37	"	20	1013	85	77	80	6	4	060-6-5	83	12	060	285-10
1100	6-16	155-45	"	20	1013	85	77	80	6	4	060-6-5	83	12	060	285-10
1200	6-21	155-55	"	20	1012	85	77	80	6	4	060-6-5	83	12	060	285-10
1300	6-20	156-00	"	20	1012	86	79	81	7	5	060-6-5	84	12	075	285-10
1400	6-21	156-08	SHOWERS	15	1011	82	78	88	9	7	060-6-5	84	11	065	285-10
1500	6-23	156-16	O'cast	15	1010	83	78	84	10	9	060-6-5	84	14	060	285-10
1600	6-26	156-24	O'cast	15	1010	84	79	84	10	8	060-6-5	84	16	075	285-10
1700	6-27	156-36	Partly Cls	20	1010	82	79	92	8	6	060-6-5	84	15	070	285-10
1800	6-32	156-43	"	20	1010	82	79	92	7	5	060-6-5	84	17	080	285-10
1900	6-34	156-52	"	20	1011	82	79	92	5	3	060-6-5	84	9	090	285-10
2000	6-36	156-59	"	20	1012	81	78	92	5	3	060-6-5	84	11	070	285-9.5
2100	6-38	157-03	FEW CLDS	20	1013	82	74	82	3	2	060-6-5	84	12	080	285-7
2200	6-39	157-09	"	20	1013	82	74	82	3	2	060-6-5	84	12	080	285-7
2300	6-41	157-19	"	20	1013	82	74	82	3	2	060-6-5	84	12	080	285-10
2400	6-44	157-28	"	20	1013	82	74	82	3	2	060-6-5	84	12	080	285-10

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 SAT. 12 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	6-46	157-37	PT CLOUD	20	1012	81	77	87	6	4	060-6-5	82	12	090	285-10
0200	6-49	157-47	RAIN	10	1011	79	76	91	10	10	060-6-5	82	14	085	285-10
0300	6-52	157-56	RAIN	6	1011	79	76	91	10	10	060-6-5	82	12	085	285-10
0400	6-54	158-06	RAIN	8	1011	79	76	91	10	10	060-6-5	82	13	085	285-10
0500	6-58	158-18	"	10	1011	79	76	91	10	9	060-6-5	82	13	070	285-10
0600	7-01	158-28	Partly Cloudy	15	1011	79	76	91	9	7	060-6-5	82	14	060	285-10
0700	7-03	158-38	" " " "	10	1012	79	76	91	10	8	060-6-5	82	13	070	285-10
0800	7-06	158-47	" " " "	17	1012	79	76	91	10	8	045-7-6	82	13	070	285-10
0900	7-09	158-57	Cont. Rain	5	1013	80	77	91	10	10	045-6-6	82	14	110	285-10
1000	7-12	159-06	"	5	1013	80	77	91	10	10	045-6-6	82	14	110	285-10
1100	7-15	159-16	"	5	1013	80	77	91	10	10	045-6-6	82	14	110	285-10
1200	7-17	159-26	"	5	1013	80	77	91	10	10	045-6-6	82	14	110	285-10
1300	7-19	159-32	"	5	1012	81	77	87	10	10	045-6-6	83	12	100	285-10
1400	7-21	159-38	DECAST	12	1011	82	77	84	10	9	045-6-6	83	10	090	285-10
1500	7-23	159-46	"	12	1011	82	77	84	10	9	045-6-6	83	14	080	285-10
1600	7-25	159-55	RAIN	5	1010	82	77	84	10	10	045-6-6	83	15	085	285-10
1700	7-28	160-05	DECAST	15	1010	82	75	80	10	9	045-6-6	83	17	080	" " 270-20
1800	7-28	160-05	"	15	1010	82	75	80	10	9	045-6-6	83	17	075	" "
1900	7-28	160-17	"	15	1011	82	75	80	10	9	045-6-6	83	20	070	" "
2000	7-32	160-26	"	15	1011	81	76	84	10	9	045-6-6	83	20	075	" "
2100	7-33	160-30	PARTLY CLOUDY	20	1012	82	77	84	5	5	045-6-5	83	10	070	285-10
2200	7-36	160-39	"	20	1012	82	77	84	6	5	045-6-5	83	10	070	285-10
2300	7-38	160-49	"	20	1012	82	77	84	6	5	045-6-5	83	10	070	285-10
+10-20 2400	7-42	161-0207	"	20	1012	82	77	84	6	5	045-6-5	83	10	070	285-10

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 SUN. 13 JUNE 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.
+1020 0100	7-44	161-12	CLOUDY	20	1010	82	75	80	8	6	045-6-5	82	20	055	285-10
0200	7-47	161-21	B'CAST	20	1010	80	76	87	10	9	045-6-5	82	15	050	285-10
0300	7-50	161-32	"	20	1010	81	75	83	10	9	045-6-5	82	16	060	285-10
+1040 0400	7-53	161-45	"	20	1010	82	75	80	10	9	045-6-5	82	17	075	285-10
0500	7-58	161-59	"	20	1009	82	75	80	10	9	045-6-6	82	17	075	314-10
0600	8-05	162-07	"	20	1009	82	75	80	9	8	045-6-6	82	18	075	314-10
0700	8-13	162-14	"	10	1010	81	76	84	9	7	045-6-6	82	20	070	314-10
0800	8-19	162-21	"	15	1010	81	76	84	9	7	045-6-6	82	18	080	314-10
0900	8-27	162-28	Part Cls	20	1010	83	74	76	5	4	060-6-6	82	18	070	314-10
1000	8-34	162-35	"	20	1010	83	74	76	5	4	060-6-6	82	18	070	314-10
1100	8-43	162-42	"	20	1010	82	74	76	5	4	060-6-6	82	18	070	314-10
1200	8-51	162-49	"	20	1010	82	74	76	5	4	060-6-6	82	18	070	314-10
+11 1300	8-50	162-53	"	20	1010	82	74	76	4	3	060-6-6	82	18	070	314-10
1400	8-55	163-00	"	20	1009	82	75	80	3	2	060-6-6	83	19	080	314-10
1500	9-00	163-06	"	20	1009	82	75	80	3	2	060-6-6	83	18	075	314-10
1600	9-07	163-14	"	20	1008	82	74	76	3	2	060-6-6	83	18	080	314-10
1700	9-13	163-21	"	20	1008	81	74	80	9	3	060-6-6	83	18	075	314-10
1800	9-19	163-27	"	20	1009	81	74	80	9	2	060-6-6	83	18	075	314-10
1900	9-27	163-37	"	20	1009	81	74	80	8	3	060-6-6	83	17	075	314-10
2000	9-33	163-45	"	20	1010	81	74	80	5	2	060-6-6	83	18	075	314-10
2100	9-40	163-51	"	20	1011	81	74	80	3	2	070-6-5	83	12	070	314-10
2200	9-49	163-59	"	20	1011	81	74	80	3	2	070-6-5	83	12	070	314-10
2300	9-56	164-06	"	20	1011	81	74	80	3	2	070-6-5	83	12	070	314-10
2400	10-04	164-13	"	20	1011	81	74	80	3	2	070-6-5	83	12	070	314-10

REMARKS:

XRAY AFTER 0500

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 MON. 14 JUNE 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	10-10	164-21	FEW CLDS	20	1011	81	75	83	2	1	070-6-5	82	14	070	314-10
0200	10-17	164-28	"	20	1010	81	74	79	3	2	060-6-5	82	15	075	314-10
0300	10-24	164-35	"	20	1010	81	74	79	4	3	060-6-5	82	14	070	314-10
0400	10-31	164-42	PT CLOY	20	1010	81	74	79	5	4	060-6-5	82	14	070	314-10
0500	10-36	164-48	" "	20	1010	80	74	83	9	3	060-6-5	82	16	080	314-10
0600	10-42	164-55	" "	20	1011	80	74	83	7	3	060-6-5	82	15	080	314-10
0700	10-49	165-02	" "	20	1012	84	73	69	5	2	060-6-5	82	15	080	314-10
0800	10-56	165-09	" "	20	1012	84	73	69	5	2	060-6-5	82	15	080	314-10
0900	11-03	165-16	HIGH CLOY	20	1012	83	73	69	8	2	070-6-5	82	15	070	314-10
1000	11-11	165-25	"	20	1012	83	73	69	8	2	070-6-5	82	15	070	314-10
1100	11-19	165-36	"	20	1012	83	73	69	8	2	070-6-5	82	15	070	314-10
1200	11-26	165-43	"	20	1012	83	73	69	8	2	070-6-5	82	15	070	314-10
1300	11-30	165-49.50	PT. CLOY	20	1012	83	73	72	7	3	070-6-5	81	14	090	314-10.5
1400	11-38	166-00	" "	20	1011	83	73	72	7	3	070-6-5	81	16	090	314-10.5
1500	11-46.42	166-09	" "	20	1011	83	73	72	6	3	070-6-5	81	14	100	314-10.5
1600	11-55.11	166-18	" "	20	1011	82	74	76	4	2	070-6-5	81	15	095	314-10.5
1700	11-59.57	166-26	" "	20	1011	82	74	76	5	2	070-6-5	81	15	090	314-10.5
1800	11-57	166-33	" "	20	1012	81	73	81	4	2	070-6-5	81	15	090	314-10.5
1900	12-04	166-41	" "	20	1012	80	74	83	8	3	070-6-5	81	17	100	314-10.5
2000	12-11	166-49	" "	20	1012	80	74	83	7	2	070-6-5	81	17	110	314-10.5
2100	12-19	166-56	Partly Cld	20	1012	80	75	83	5	3	070-6-5	81	10	100	314-10.5
2200	12-25	167-04	"	20	1013	80	75	83	5	3	070-6-5	81	10	100	314-10.5
2300	12-33	167-12	"	20	1013	80	75	83	5	3	070-6-5	81	10	100	314-10.5
2400	12-40	167-19	"	20	1013	80	74	83	5	3	070-6-5	81	10	100	314-10.5

REMARKS:

XRAY  
 ALL TIMES LOCAL (WILSKY); 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 N JUNE 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	12-48.5	167-27.9	CLOUDY	20	1012	80	74	83	8	7	070-6-5	81	18	090	314-10.5
0200	12-55	167-36	PT CLDY	20	1012	80	74	83	7	6	070-6-5	81	12	110	314-10.5
0300	13-03	167-44	SHOWER	20	1012	80	74	83	8	7	070-6-5	81	14	100	314-10.5
0400	13-11	167-52	PT CLDY	20	1012	80	74	83	6	5	070-6-5	81	13	090	314-10.5
0500	13-15	168-03	" "	20	1012	80	74	83	10	4	070-6-5	81	13	070	314-10.5
0600	13-22	168-10	" "	20	1013	81	74	80	8	3	070-6-5	81	13	170	314-10.5
0700	13-28	168-18	" "	20	1013	82	74	76	7	3	070-6-5	81	13	130	314-10.5
0800	13-35	168-26	" "	20	1013	82	74	76	5	2	070-6-5	81	15	130	314-10.5
0900	13-42	168-33	FEW CLDY	20	1014	82	74	76	4	2	070-6-5	81	12	070	314-10.5
1000	13-50	168-41	" "	20	1014	82	74	76	4	2	070-6-5	81	12	070	314-10.5
1100	13-58	168-49	" "	20	1014	82	74	76	4	2	070-6-5	81	12	070	314-10.5
1200	14-06	168-56	" "	20	1014	82	74	76	4	2	070-6-5	81	12	070	314-10.5
1300	14-11	169-04	PT CLDY	20	1013	82	74	76	5	3	070-6-5	81	12	070	224-10.5
1400	14-10.04	169-09	" "	20	1013	82	74	76	6	3	070-6-5	81	11	070	224-10.5
1500	14-04.51	169-17	" "	20	1012	82	72	72	7	4	070-6-5	81	12	070	224-10.5
1600	13-56.50	169-25	" "	20	1012	82	72	72	7	5	070-6-5	81	10	070	224-10.5
1700	13-43	169-36	" "	20	1012	82	72	72	5	3	070-6-5	81	12	075	224-10.5
1800	13-35	169-43	" "	20	1012	82	72	72	7	3	070-6-5	81	13	080	224-10.5
1900	13-24	169-54	" "	20	1013	81	73	75	8	4	070-6-5	81	13	080	224-10.5
2000	13-16	170-02	" "	20	1013	81	73	75	5	2	070-6-5	81	14	080	224-11
2100	13-08	170-10	FEW CLDY	20	1013	81	73	75	3	2	070-6-5	81	12	080	225-10.7
2200	13-04	170-16	" "	20	1014	81	73	75	3	2	070-6-5	81	12	070	225-10.7
2300	12-57	170-23	" "	20	1014	81	73	75	3	2	070-6-5	81	10	080	225-10.7
2400	12-50	170-30	" "	20	1014	81	73	75	3	2	070-6-5	81	10	080	225-10.7

REMARKS:

ALL TIMES LOCAL (<sup>XRAY</sup>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 WED. 16 JUNE 1965

TIME	LAT	N <sub>1</sub>	LONG	W <sub>1</sub>	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	12-42		170-37			FEW CLOS	20	1013	80	74	83	2	1	070-6-5	81	15	085	225-10.7
0200	12-34		170-45			" "	20	1013	80	74	83	2	1	070-6-5	81	14	085	225-10.7
0300	12-26		170-53			" "	20	1012	80	74	83	3	2	070-6-5	81	14	080	225-10.7
0400	12-19		171-00			" "	20	1012	80	74	83	3	2	070-6-5	81	14	070	225-10.7
0500	12-14		171-12			" "	20	1012	81	71	72	5	2	070-6-5	81	17	080	225-10.7
0600	12-22		171-20			" "	20	1013	80	75	79	7	1	070-6-5	81	15	080	215-10.5
0700	12-29		171-28			" "	20	1013	84	74	73	7	1	070-6-5	81	15	085	215-10.5
0800	12-36		171-35			" "	20	1014	83	72	69	8	2	070-6-5	81	15	085	215-10.5
0900	12-45		171-42			" "	20	1015	83	72	72	3	2	070-6-8	81	15	080	045-9
1000	12-51		171-36			" "	20	1015	83	72	72	3	2	070-6-8	81	15	080	045-9
1100	12-58		171-30			" "	20	1015	83	72	72	3	2	070-6-8	81	15	080	045-9
1200	13-01		171-23			" "	20	1015	83	72	72	3	2	070-6-8	81	15	080	045-9
1300	13-06		171-16			PR CLDY	20	1014	82	74	76	6	3	070-6-8	81	16	085	045-9
1400	13-13		171-10			" "	20	1013	82	74	76	7	3	070-6-8	81	16	085	045-9
1500	13-20		171-04			" "	20	1013	82	74	76	8	3	070-6-8	81	15	080	045-9
1600	13-26		170-57			" "	20	1013	82	74	76	8	3	070-6-8	81	16	085	045-9
1700	13-33		170-52			" "	20	1013	81	73	76	8	3	070-6-8	81	15	080	045-9
1800	13-39		170-48			" "	20	1013	81	73	76	9	7	070-6-8	81	15	080	045-9
1900	13-49		170-39			" "	20	1014	80	73	79	8	6	070-6-8	81	15	080	045-9
2000	13-56		170-33			" "	20	1014	80	73	79	7	5	070-6-8	81	15	080	045-9
2100	14-02		170-24			Cloudy	20	1015	81	72	75	7	3	080-6-8	80	15	110	045-9.0
2200	14-08		170-19			" "	20	1015	81	72	75	8	3	080-6-8	80	15	110	045-9.0
2300	14-15		170-13			" "	20	1015	81	72	75	8	3	080-6-8	80	15	110	045-9.0
2400	14-21		170-06			" "	20	1015	81	72	75	8	3	080-6-8	80	15	110	045-9.0

REMARKS:

ALL TIMES LOCAL (<sup>XRAY</sup>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 THURS 17 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID/O	TOT SKY	OPA SKY	JWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14-29	170-00	PT CLDY	20	1014	80	74	83	4	3	080-6-8	80	15	100	045-9.0
0200	14-36	169-53	FEW CLOS	20	1014	80	74	83	3	2	080-6-8	80	16	095	045-9.0
0300	14-42	169-47	" "	20	1014	80	74	83	2	2	080-6-8	80	14	090	045-9.0
0400	14-48	169-40	" "	20	1013	80	74	83	3	3	080-6-8	80	15	090	045-9.0
0500	15-02	169-35	" "	20	1014	80	74	83	5	2	080-6-8	80	16	080	045-9.0
0600	15-10	169-40	" "	20	1014	80	74	83	5	3	080-6-8	80	15	080	315-10.5
0700	15-17	169-47	" "	20	1014	80	73	73	3	1	080-6-8	80	17	075	" "
0800	15-24	169-55	" "	20	1015	82	74	76	3	1	080-6-8	80	17	080	" "
0900	15-33	170-03	" "	20	1015	83	73	73	3	1	080-6-6	81	17	080	225-10.5
1000	15-25	170-10	" "	20	1015	85	74	69	3	1	080-6-6	81	18	080	225-10.5
1100	15-21	170-15	" "	20	1015	85	74	69	3	1	080-6-6	81	18	080	225-10.5
1200	15-19	170-18	" "	20	1015	85	74	69	3	1	080-6-6	81	18	080	225-10.5
1300	15-11	170-26	FEW CLOS	20	1015	82	74	76	3	1	080-6-6	82	12	080	225-10.5
1400	15-04	170-33	" "	20	1015	82	74	76	3	2	080-6-6	82	12	090	225-10.5
1500	15-00	170-38	PT CLDY	20	1014	82	74	76	4	3	080-6-6	82	12	090	225-10.5
1600	14-52	170-48	" "	20	1014	82	74	76	6	5	080-6-6	82	12	085	225-10.5
1700	14-45	170-56	" "	20	1014	80	74	83	7	5	080-6-6	82	13	085	225-10.5
1800	14-38	171-04	" "	20	1014	80	74	83	8	6	080-6-6	82	17	085	" "
1900	14-31	171-10	" "	20	1014	80	74	83	6	3	080-6-6	82	17	080	" "
2000	14-24	171-17	" "	20	1015	80	74	83	5	3	080-6-6	82	17	080	" "
2100	14-16	171-25	FEW CLOS	20	1016	81	74	83	1	1	080-6-5	82	5	080	225-10.5
2200	14-09	171-33	" "	20	1016	81	74	83	1	1	080-6-5	82	5	080	225-10.5
2300	14-02	171-40	" "	20	1016	81	74	83	1	1	080-6-5	82	5	080	225-10.5
2400	13-54	171-48	" "	20	1016	81	74	83	1	1	080-6-5	82	5	080	225-10.5

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. 18 JUNE 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	13-49	172-00	FEW CDS	20	1015	81	75	83	3	2	080-6-5	82	10	080	225 10.5
0200	13-42	172-09	" "	20	1014	80	74	83	3	2	080-6-5	82	14	090	225 10.5
0300	13-36	172-17	" "	20	1014	80	74	83	4	3	080-6-5	82	14	090	225 10.5
0400	13-30	172-25	" "	20	1014	80	74	83	3	2	080-6-5	82	15	095	225 10.5
0500	13-23	172-30	" "	20	1014	80	74	83	3	1	080-6-5	82	17	090	225 10.5
0600	13-30	172-38	" "	20	1014	80	74	83	4	1	080-6-5	82	16	085	215 10.5
0700	13-30	172-45	" "	20	1015	80	74	83	3	1	080-6-5	82	16	090	215 10.5
0800	13-43	172-55	" "	20	1015	83	75	76	3	1	080-6-5	82	17	090	215 10.5
0900	13-50	172-59	FEW CDS	20	1015	82	74	76	2	1	080-6-5	82	18	080	215 10.5
1000	13-54	172-57	" "	20	1015	82	74	76	2	1	080-6-5	82	18	080	045 9
1100	14-02	172-51	" "	20	1015	82	74	76	2	1	080-6-5	82	18	080	045 9
1200	14-09	172-44	" "	20	1015	82	74	76	2	1	080-6-5	82	18	080	045 9
1300	14-15	172-39	" "	20	1014	82	74	76	4	3	080-6-6	81	15	090	045 9
1400	14-21	172-32	PT CLOUDY	20	1013	82	74	76	4	3	080-6-6	81	16	100	045 9
1500	14-27	172-26	" "	20	1013	82	74	76	5	4	080-6-6	81	16	085	045 9
1600	14-33	172-20	FEW CDS	20	1013	82	74	76	3	2	080-6-6	81	16	085	045 9
1700	14-41	172-16	" "	20	1013	80	74	83	1	0	080-6-7	81	16	080	245 8.5
1800	14-47	172-09	" "	20	1013	80	74	83	5	2	080-6-7	81	18	085	245 8.5
1900	14-53	172-03	" "	20	1013	80	74	83	7	5	080-6-7	81	21	090	245 8.5
2000	15-00	171-57	" "	20	1013	80	74	83	8	6	080-6-7	81	18	090	245 8.5
2100	15-06	171-50	" "	20	1015	80	74	83	2	1	080-6-6	81	18	090	045 8.5
2200	15-12	171-44	" "	20	1015	80	74	83	2	1	080-6-6	81	18	090	045 8.5
2300	15-18	171-37	" "	20	1015	80	74	83	2	1	080-6-6	81	12	090	045 8.5
2400	15-25	171-31	" "	20	1015	80	74	83	2	1	080-6-6	81	12	090	045 8.5

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 SAT. 19 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID/O	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	15-34	171-28	FEW CLDS	20	1014	80	73	79	2	1	080-6-6	80	15	090	045 8.5
0200	15-42	171-21	" "	20	1013	80	73	79	2	1	080-6-6	80	16	090	045 8.5
0300	15-50	171-14	" "	20	1013	80	72	75	2	1	080-6-6	80	16	090	045 8.5
0400	15-59	171-07	" "	20	1013	80	72	75	2	1	080-6-6	80	18	090	045 8.5
0500	16-05	170-56	" "	20	1013	80	72	75	3	1	080-6-6	80	17	095	245 9
0600	16-12	170-50	" "	20	1014	80	72	75	2	1	080-6-6	80	15	095	320 10
0700	16-19	170-57	" "	20	1014	84	73	69	2	1	080-6-6	80	15	100	320 10
0800	16-27	171-03	" "	20	1014	83	73	73	2	1	080-6-6	80	18	100	320 10
0900	16-35	171-11	" "	20	1015	82	71	69	3	1	100-6-6	80	18	100	320 10.5
1000	16-42	171-16	" "	20	1015	82	71	69	3	1	100-6-6	80	18	100	320 10.5
1100	16-39	171-20	" "	20	1015	82	71	69	3	1	100-6-6	80	18	100	225 10.5
1200	16-30	171-29	" "	20	1015	82	71	69	3	1	100-6-6	80	18	100	225 10.5
1300	16-25	171-37	" "	20	1314	82	71	69	4	2	100-6-6	81	12	080	225 10.5
1400	16-17	171-45	" "	20	1313	82	71	69	3	2	100-6-6	81	11	080	225 10.5
1500	16-10	171-53	" "	20	1313	82	71	69	3	2	100-6-6	81	11	080	225 10.5
1600	16-03	172-01	" "	20	1312	82	71	69	3	2	100-6-6	81	12	080	225 10.5
1700	15-55	172-09	" "	20	1312	81	71	72	5	2	100-6-6	81	13	080	225 10.5
1800	15-48	172-15	MLG CLDS	20	1013	81	71	72	7	3	100-6-6	81	15	080	225 10.5
1900	15-41	172-24	" "	20	1013	80	72	75	7	4	100-6-6	81	15	080	225 10.5
2000	15-33	172-31	" "	20	1013	80	72	75	6	4	100-6-6	81	15	080	225 10.5
2100	15-26	172-39	FEW CLDS	20	1014	80	72	75	2	1	100-6-6	81	15	110	225 10.5
2200	15-18	172-47	" "	20	1014	80	72	75	2	1	100-6-6	81	15	110	225 10.5
2300	15-11	172-55	" "	20	1014	80	72	75	2	1	100-6-6	81	15	110	225 10.5
2400	15-03	173-03	" "	20	1014	80	72	75	2	1	100-6-6	81	15	110	225 10.5

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 SUN, 20 JUNE 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	14-56	173-12	FEW CLDS	20	1013	80	73	79	2	1	100-6-6	81	12	085	225-10.5
0200	14-49	173-20	" "	20	1012	80	73	79	2	1	100-6-6	81	10	075	" "
0300	14-42	173-29	" "	20	1012	80	73	79	2	1	100-6-6	81	11	080	" "
0400	14-35	173-37	" "	20	1012	80	73	79	2	1	100-6-6	81	12	080	" "
0500	14-41	173-48	Med Cls	20	1011	80	74	83	8	5	100-6-6	81	15	080	315-10.5
0600	14-49	173-55	" "	20	1012	80	72	75	7	4	100-6-6	81	15	080	" "
0700	14-58	174-07	" "	20	1012	82	74	76	7	3	100-6-6	81	16	080	" "
0800	15-06	174-10	" "	20	1013	83	76	76	3	1	100-6-6	81	15	090	" "
0900	15-11	174-02	FEW CLDS	20	1013	82	71	69	2	1	100-6-6	81	12	100	045-9.0
1000	15-18	173-54	" "	20	1013	82	71	69	2	1	100-6-6	81	12	100	045-9.0
1100	15-23	173-49	" "	20	1013	82	71	69	2	1	100-6-6	81	12	100	045-9.0
1200	15-31	173-43	" "	20	1013	82	71	69	2	1	100-6-6	81	12	100	045-9.0
1300	15-37	173-40 37	" "	20	1012	81	71	72	3	2	100-6-6	81	14	105	045-9.0
1400	15-41	173-35 31	" "	20	1011	80	73	79	4	2	100-6-7	81	20	120	045-8.5
1500	15-48 9	173-30 25	" "	20	1011	80	73	79	3	1	100-6-7	81	16	110	045-8.5
1600	15-54 57	173-24 19	" "	20	1011	80	73	79	2	1	100-6-7	81	12	100	045-8.5
1700	16-04	173-12	" "	20	1011	80	73	79	4	2	100-6-7	81	18	090	" 9.0
1800	16-10	173-03	" "	20	1011	80	73	79	5	2	100-6-7	81	18	090	" "
1900	16-18	172-57	" "	20	1012	80	73	79	4	3	100-6-7	81	12	090	" "
2000	16-24	172-50	" "	20	1013	80	73	79	2	1	100-6-7	81	12	090	" "
2100	16-37	172-44	Cloudy	15	1013	80	74	83	6	5	100-6-7	81	15	100	045-9.0
2200	16-38	172-37	" "	15	1013	80	74	83	6	5	100-6-7	81	15	100	045-9.0
2300	16-45	172-30	" "	15	1013	80	74	83	6	5	100-6-7	81	15	100	045-9.0
2400	16-52	172-24	" "	15	1013	80	74	83	6	5	100-6-7	81	15	100	045-9.0

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 MON 21 JUNE 1965

TIME	LAT $\checkmark$	LONG $\checkmark$	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELLS WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16-54	172-16	FEW CLDS	15	1013	80	74	83	3	2	100-6-7	81	14	085	072-9.0
0200	16-58	172-06	PT. CUDY	15	1013	80	74	83	6	5	100-6-7	81	14	085	072-9.0
0300	17-01	171-57	" "	20	1012	80	74	83	5	4	100-6-7	81	16	080	072-9.0
0400	17-04	171-48	" "	15	1012	80	74	83	4	3	100-6-7	81	15	080	072-9.0
0500	17-11	171-38	" "	20	1013	80	73	79	5	3	100-6-7	81	17	090	" "
0600	17-14	171-29	" "	20	1013	80	72	75	2	1	100-6-7	81	17	100	" "
0700	17-15	171-20	" "	20	1014	81	73	75	3	1	100-6-7	81	17	100	" "
0800	17-17	171-11	" "	20	1014	81	74	79	2	1	100-6-7	81	17	100	" "
0900	17-18	171-01	Few Cls	20	1015	83	72	82	2	1	100-6-7	81	18	100	072-9.0
1000	17-21	170-52	" "	20	1015	82	72	82	2	1	100-6-7	81	18	100	072-9.0
1100	17-25	170-43	" "	20	1015	82	72	72	2	1	100-6-7	81	18	100	072-9.0
1200	17-27	170-34	" "	20	1015	82	72	72	2	1	100-6-7	81	18	100	072-9.0
1300	17-32	170-24	" "	20	1015	82	72	72	2	1	100-6-7	81	15	095	072-9.0
1400	17-35	170-15	" "	20	1014	82	72	72	2	1	100-6-7	81	16	095	072-9.0
1500	17-37	170-05	" "	20	1014	82	72	72	2	1	100-6-7	81	13	095	072-9.0
1600	17-40	169-56	" "	20	1014	82	74	76	1	0	100-6-7	81	12	100	072-9.0
1700	17-44	169-54	" "	20	1014	81	74	77	1	1	100-6-7	81	13	100	" "
1800	17-46	169-45	" "	20	1014	81	74	79	2	1	100-6-7	81	15	100	" "
1900	17-49	169-36	Partly Cls	20	1015	80	74	83	7	5	100-6-7	81	12	100	" "
2000	17-52	169-28	" "	20	1015	80	74	83	5	4	100-6-7	81	14	090	" "
2100	17-56	169-14	Few Cls	20	1017	80	74	83	3	2	100-6-5	81	12	090	072-9
2200	17-59	169-04	" "	20	1017	80	74	83	3	2	100-6-5	81	12	090	072-9
2300	18-02	168-56	" "	20	1017	80	74	83	3	2	100-6-5	81	10	090	072-9
2400	18-05	168-47	" "	20	1017	80	74	83	3	2	100-6-5	81	10	090	072-9

REMARKS:

ALL TIMES LOCAL <sup>X RAY</sup> (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 TUE. 22 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	SWELLS WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	18-07	168-37	FEW CLDS	20	1016	80	73	79	2	1	100-6-5	80	12	105	072-9
0200	18-10	168-29	" "	20	1016	80	73	79	2	1	100-6-5	80	13	100	072-9
0300	18-12	168-20	" "	20	1016	80.6	74	83	2	1	100-6-5	80	12	090	072-9
0400	18-15	168-11	" "	20	1016	80	74	83	3	2	100-6-5	80	12	090	072-9
0500	18-19	167-58	168-11	20	1016	79	73	83	4	2	100-6-5	80	9	090	" 9.4
0600	18-21	167-49	" "	12	1016	79	73	83	8	7	100-6-5	80	10	090	" "
0700	18-24	167-40	2000	20	1016	78	72	83	8	6	100-6-5	80	12	090	" 9
0800	18-27	167-31	168-11	20	1017	80	73	79	7	5	100-6-5	81	6	075	" 9.4
0900	18-30	167-21	" "	20	1017	82	71	69	6	5	080-6-5	81	13	075	072 9.0
1000	18-33	167-14	" "	20	1017	82	71	69	6	5	080-6-5	81	13	075	072 9.0
1100	18-36	167-03	" "	20	1017	82	71	69	6	5	080-6-5	81	13	075	072 9.0
1200	18-39	166-54	" "	20	1017	82	71	69	6	5	080-6-5	81	13	075	072 9.0
1300	18-43	166-45	" "	20	1016	82	71	69	5	4	080-6-5	80	12	075	072 9.0
1400	18-45	166-36	" "	20	1016	82	71	69	4	3	080-6-5	80	11	075	072 9.0
1500	18-446	166-31	" "	20	1016	82	72	72	4	3	080-6-5	80	12	075	072 9.0
1600	18-47	166-22	" "	20	1015	82	72	72	2	1	080-6-5	80	10	075	072 9.0
1700	18-48	166-12	" "	20	1015	80	73	79	5	3	080-6-5	80	15	080	" "
1800	18-51	166-03	" "	20	1015	80	73	79	7	5	080-6-5	80	16	080	" "
1900	18-54	165-53	168-11	20	1016	79	73	83	8	7	080-6-5	80	16	070	" "
2000	18-57	165-45	" "	15	1016	79	73	83	8	7	080-6-5	80	17	060	" 8.5
2100	19-00	165-36	FEW CLDS	20	1017	80	72	75	2	1	080-6-7	80	15	070	072 8.5
2200	19-03	165-27	" "	20	1017	80	72	75	2	1	080-6-7	80	15	070	072 8.5
2300	19-05	165-19	" "	20	1017	80	72	75	2	1	080-6-7	80	15	070	072 8.5
2400	19-08	165-11	" "	20	1017	80	72	75	2	1	080-6-7	80	15	070	072 8.0

REMARKS:

ALL TIMES LOCAL <sup>XRAY</sup> (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 WED. 23 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELLS WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	19-11	165-02	CLEAR	20	1016	80	72	75	0	0	080-6-7	80	15	075	072 - 8.0
0200	19-13	165-56	FEW CLDS	20	1016	79	72	79	2	1	080-6-7	80	16	070	072 - 8.0
0300	19-16	165-48	" "	20	1016	79	72	79	2	1	080-6-7	80	15	065	072 8.0
0400	19-19	165-40	" "	20	1016	79	72	79	2	1	080-6-7	80	14	070	072 8.0
0500	19-23	164-33	WLY CLDS	20	1016	78	71	79	5	2	080-6-7	80	16	070	" "
0600	19-25	164-26	" "	20	1016	79	71	75	5	3	080-6-6	80	17	070	" "
0700	19-27	164-18	" "	20	1016	80	68	68	2	1	080-6-6	80	17	080	" "
0800	19-29	164-10	" "	20	1017	80	70	72	5	2	080-6-7	80	18	080	" "
0900	19-32	164-03	FEW CLDS	20	1017	82	71	69	2	1	080-6-7	80	18	070	074 8.0
1000	19-35	163-53	" "	20	1017	82	71	69	2	1	080-6-7	80	18	070	074 8.0
1100	19-40	163-47	" "	20	1017	82	71	69	2	1	080-6-7	80	18	070	074 8.0
1200	19-41	163-42	" "	20	1017	82	71	69	2	1	080-6-7	80	18	070	074 8.0
1300	19-43	163-34	" "	20	1017	81	71	72	3	1	080-6-7	80	16	080	074 8.0
1400	19-45	163-25	" "	20	1016	81	71	72	2	1	080-6-7	80	15	075	074 8.0
1500	19-47	163-18	" "	20	1016	81	71	72	2	1	080-6-6	80	14	080	074 8.0
1600	19-49	163-09	" "	20	1016	81	71	72	2	1	080-6-6	80	14	075	074 8.0
1700	19-50	163-04	" "	20	1016	80	72	75	2	1	080-6-6	80	15	075	" "
1800	19-51	162-55	" "	20	1016	79	70	75	3	1	080-6-6	80	15	075	" "
1900	19-53	162-51	" "	20	1017	79	70	75	1	0	080-6-6	80	15	075	" "
2000	19-57	162-47	" "	20	1017	79	70	75	3	1	080-6-6	80	15	075	" "
2100	20-00	162-34	" "	20	1017	79	70	75	2	1	080-6-5	80	14	070	074 9.0
2200	20-03	162-25	" "	20	1017	79	70	75	2	1	080-6-5	80	14	070	074 9.0
2300	20-06	162-17	" "	20	1017	79	70	75	2	1	080-6-5	80	14	070	074 9.0
2400	20-08	162-11	" "	20	1017	79	70	75	2	1	080-6-5	80	14	070	074 9.0

REMARKS:

ALL TIMES LOCAL <sup>XRAY</sup> (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 THURS, 24 JUNE 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	20-08	162-03	FEW CLDS	20	1017	78.2	69	75	2	1	050-6-5	80	13	075	074-9
0200	20-10	161-54	" "	20	1017	78.1	69	75	2	1	050-6-5	80	11	070	074-9
0300	20-12	161-45	" "	20	1017	78	69	75	2	1	050-6-5	80	12	075	074-9
0400	20-15	161-35	" "	20	1017	78	69	75	2	1	050-6-5	80	9	070	074-9
0500	20-17	161-26	" "	20	1017	78	69	75	2	1	050-6-5	80	11	070	074-9
0600	20-20	161-17	" "	20	1017	78	69	75	5	3	050-6-5	80	13	075	" "
0700	20-23	161-08	" "	20	1018	78	69	75	7	5	050-6-5	80	14	075	" "
0800	20-25	160-58	" "	20	1018	79	70	75	5	2	050-6-6	80	14	080	" "
0900	20-28	160-49	" "	20	1019	80	72	68	5	2	060-6-6	80	14	070	074-9
1000	20-30	160-40	" "	20	1019	80	72	68	3	2	060-6-6	80	14	070	074-9
1100	20-30	160-34	" "	20	1019	80	68	68	3	2	060-6-6	80	14	070	074-9
1200	20-31	160-28	" "	20	1019	80	68	68	3	2	060-6-6	80	14	070	074-9
1300	20-32	160-19	" "	20	1018	80	72-68	75-68	3	2	060-6-6	80	13	070	074-9
1400	20-34	160-11	" "	20	1017	80	72-68	75-68	2	1	060-6-6	80	12	075	074-9
1500	20-36	160-03	" "	20	1017	81	72-68	65	2	2	060-6-6	80	9	070	074-9
1600	20-38	159-53	" "	20	1017	81	68	65	2	1	060-6-6	80	10	070	072-9
1700	20-38	159-54	" "	20	1017	81	68	65	3	1	060-6-6	80	7	060	" "
1800	20-41	159-47	" "	20	1017	81	68	65	4	2	060-6-6	80	8	065	" "
1900	20-44	159-36	" "	20	1017	81	69	69	3	1	060-6-6	80	9	050	" "
2000	20-47	159-27	" "	20	1017	81	69	69	3	1	060-6-6	80	7	055	" "
2100	20-50	159-17	" "	20	1018	78	71	75	3	2	060-6-6	80	8	065	072-9
2200	20-53	159-08	" "	20	1018	78	71	75	3	2	060-6-6	80	8	065	072-9
2300	20-56	159-02	" "	20	1018	78	71	75	3	2	060-6-6	80	8	065	072-9
2400	20-58	158-50	" "	20	1018	78	71	75	3	2	060-6-6	80	8	065	072-9

410-20

REMARKS:

AFTER 0500

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

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