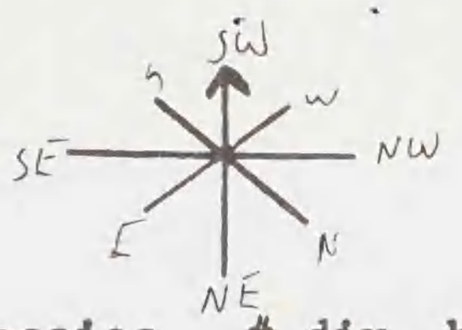
SI-MNH-958e
7-28-64

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

DATE 10 Oct 1964
Pg.# 1

time	species	#	dir.	hgt.	remarks	loc.
1400					Leave Pearl Harbor	
1420					Begin Observations	
1427	Wedgetail	1	SSE	Low	Light Phase	
1426	Wedgetail	2	NE	Low	Light phase	
1428	Wedgetail	1	N	Low	Light phase	
1429	Wedgetail	2	N	Low	Light phase	
1429	R-F Booby	1	NE	Low	adult	
1430	R-F Booby	1	NE	Low	~~immature~~	
1433	Wedgetail	1	SW	low	light phase	
1434	R-F Booby	2	NE	Low		
1434	Wedgetail	1	NE	Low		
1434	R-F Booby	1	NE	Low		
1435	Wedgetail	1	N	Low	L.P.	
1435	Tern	2	SE	Low		
1437	Wedgetail	2	NE	Low	L.P.	
1441	Wedgetail	1	E	low	L.P.	
1441	Wedgetail	1	N	low	L.P.	
1442	Wedgetail	2	N	low	L.P.	
1444	Sooty tern	1	N	low		
1445	Jaeger ~~Pom~~	2	SE	10'	Arose from water; clear white patches or bars on upper	
1446	Sooty tern	1	ESE	low	wing, white belly, white high up on head, pointed wings, heavy flapping (~~Pomarine~~) (Parasine?)	
1450	Wedgetail	2	NE	low	L.P.	
1453	Wedgetail	1	NE	low	L.P.	
1454	Wedgetail	1	NE	low	L.P.	
1456	Wedgetail	1	NNE	Low	L.P.	
1503	Wedgetail	1	SE	low	Dark phase	
1508	Wedgetail	1	NE	Low	LP	
1509	Wedgetail	1	SE	Low	LP	
1514	Wedgetail	1	SE	Low	LP	
1516	Wedgetail	1	SE	Low	LP	
1516	Com. Noddy	1	SE	Low		
1518	Wedg-tail	1	NNE	Low	LP	
1518	Wedgetail	1	NE	Low	Dark phase.	
1523	Wedgetail	1	SE	Low	LP	
1528	Wedgetail	1	NNE	Low	LP	
1538	W-tg-Tail	1	NE	Low		
1545	Skua	2	SE	Low	all dark - large, chunky white wing patch, short tail	
1547	Wedgetail	1	E	Low		

SI-MNH-958e
7-28-64

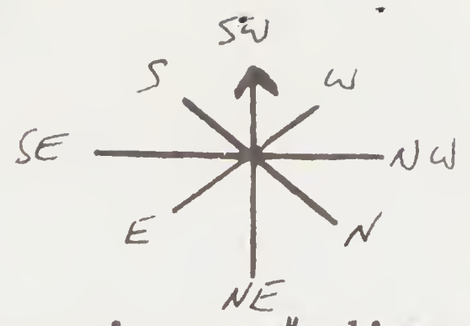


SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 10 J 1964
Pg.# 3

	time	species	#	dir.	hgt.	remarks	loc.
	1555	WedgeTail	1	NE	Low	L.P.	
	1600	Wedgetail	1	NE	low	L.P.	
	1610	Bonin Type	1	NW	Low		
	1612	WedgeTail	1	NNE	Low	LP	
	1613	WedgeTail	1	NE	Low	LP	
	1613	Wedgetail	1	N	Low	LP	
	1615	WedgeTail	1	N	Low	LP	
	1617	WedgeTail	1	N	Low	L.P.	
	1623	Wedgetail	1	SE	Low	L.P.	
	1630	WedgeTail	1	SE	Low	L.P.	
	1634	WedgeTail	1	NE	Low	L.P.	
	1635	wedgetail	1	N	Low	LP	
	1638	wedgetail	1	E	Low	LP	
	1639	wedgetail	1	E	Low	LP	
	1641	Wedgetail	1	NNE	Low	LP	
	1643	WedgeTail	1	N	Low	LP	
	1643	WedgeTail	1	E	Low	L.P.	
	1645	WedgeTail	1	E	Low	LP	
	1645	WedgeTail	1	ENE	Low	LP	
	1648	WedgeTail	1	NE	Low	LP	
	1648	WedgeTail	1	NW	Low	LP	
	1648	WedgeTail	1	NE	Low	LP	
	1650	BoninType	1	NW	Low		
	1651	WedgeTail	3	E	Low	LP	
	1651	Com Noddy	1	E	Low		
	1651	BoninType	1	SE	Low		
	1652	Wedgetail	1	E	Low	LP	
	1653	WedgeTail	1	NNE	Low	LP	
	1655	Wedgetail	2	NNE	low	LP	
	1656	Wedgetail	1	N	Low		
	1658	Sooty Tern	1	SSW	10'		
	1659	Wedgetail	1	?	low		
	1700	Wedgetail	1	NE	low		
	1701	Wedgetail	2	NE	low		
F	1704	Wedgetail	20	±		Not feeding	
		Com. Noddy	5			" "	
	1704	Frigate	1	?	50'	Distant; not part of flock	
	1709	Wedgetail	1	N	low		
	1709	Wedgetail	X	N	Low		
	1710	Wedgetail	2	SE	LOW	LP + 1 Dark phase	

SI-MNH-958e
7-28-64



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

DATE 1 Oct 64
Pg.# 3

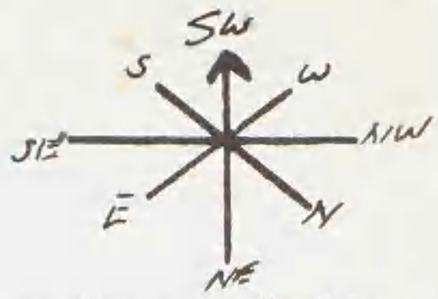
	time	species	#	dir.	hgt.	remarks	loc.
	1715	BoninType	1	ESE	Low		
F	1716	WedgeTail	20±	NE	Low		
	1718	BoninType	1	N	Low		
	1720	SooTy Tern	3	ENE	Low		
	1720	WedgeTailSh	1	NE	Low		
	1721	WedgeTail	2	NE	Low		
	1721	WedgeTail	1	SE	Low		
	1724	WedgeTail	1	SE	Low		
F	1725	WedgeTail	5	SW	Low		
	1730					second watch	

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF - Phoenix, Line Trip

DATE Oct. 2, 1964
Pg. # 1



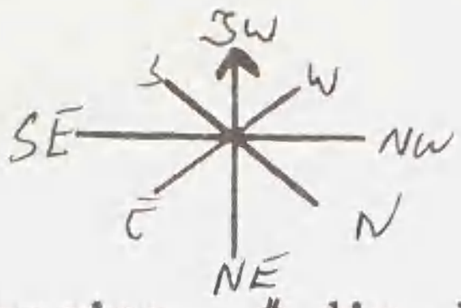
time	species	#	dir.	hgt.	remarks	loc.
0730	Wedgetail	1	NW	Low	0730 — begin watch	
0735	Newell's	1	NE	Low		
0739	Wedgetail	1	SW	Low		
0742	Wedgetail	1	SE	Low	LP	
0744	Bonin Type	1	ESE	Low		
0755	Bonin Type	1	NW	Low		
0757	Bonin Type	1	SW	Low		
0801	Cook's Petrel	1	SW	Low	Gray	
0803	Wedge-Tail	1	SW	Low	Lp.	
0807	Sooty Shearw.	1	S	Low		
0810	Wedge-Tail	1	NW	Low	Lp.	
0811	Wedge-Tail	1	SW	Low	Lp.	
0813	Wedge-Tail	1	SW	Low	Lp.	
0815	Cook's Petrel	1	NW	Low		
0817	Sooty Tern	2	S	Low		
0818	Wedge-Tail	2	SW	Low	L.p.	
0822	Wedge-Tail	1	E.	Low	L.p.	
0824	Wh-necked Petrel	1	S	Low	Kermadec Type	
0826	Wedge-Tail	2	NW	Low	Lp.	
0830	Sooty Shear	1	SE	Low		
0831	Bonin Type	1	NW	Low		
0831	Bonin Type	1	S	Low		
0833	Wedgetail	1	N	Low	LP	
0835	W-n Petrel	1	SE	Low		
0836	Wedgetail	1	S	Low	LP	
0840	Wedgetail	1	NW	Low	LP	
0840	W-n Petrel	1	NW	Low		
0841	W-n Petrel	1	NE	Low		
0841	Bird	1				
0845	Pterodroma	1	NW	Low		
0845	Wedgetail	1	NE	Low		
0846	W-n Petrel	1	NW	Low		
0850	Bonin Type	1	N	Low		
0851	Bonin Type	1	SE	Low		
0851	W-n Petrel	1	NW	Low		
0855	Bonin Type	1	NE	Low	Gray back	
0856	Newell's	1	NW	Low		
0856	Bonin Type	1	NW	Low		
0858	Bird	1	S	Low		
0859	Sooty Shear	1	S	Low		
0903	Wedgetail	1	N	Low		
0904	Bonin Type	1	NE	Low	Gray back	
0907	Wedgetail	1	SE	Low		
0914	Wedgetail	1	NNE	Low	L.P.	

ALL BONIN and COOK TYPE PETRELS SEEN TODAY were gray backed (i.e. P. cookii)

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF
DATE 20 Oct 1964
Pg.# 2



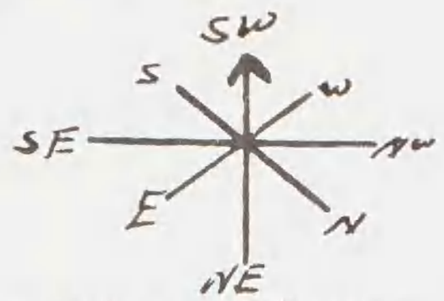
	time	species	#	dir.	hgt.	remarks	loc.
FF	0919	Com. Noddy	8			Feeding - no fish seen	
		R-F Booby	1				
		B-Fa Booby	1				
		Wedgetail	30+				
		Sooty Tern	12				
	0920	Bonin Type	1	S	Low	Grey	
	0922	Bonin Type	1	SW	Low	Grey	
	0930	Wedgetail	1	NE	Low		
	0935	Bonin Type	1	SW	Low	Gray back.	
	0940	Wedgetail	1	NE	Low		
	0941	W-n Petrel	1	NNE	Low	Juan Fernandez Type.	
	0945	Sooty Shearw.	1	S	Low		
	0946	Wedge-Tail	1	N	Low	L.P.	
	0949	Bonin Type	1	N	Low	Grey	
	0950	wedgetail	1	NE	Low		
	0958	Fregata sp	1	NE	High	Dropped down to water several time - no other birds in sight	
	0959	Shear-Petrel	1	S	Low		
		Bonin Type	1	NE	Low	Grey	
		Bonin Type	2	SW	Low	Grey	
		Red-f. Booby	1	N	Low	Adult - white phase	
	1006	Bonin-Type	1	W	Low	Grey	
	1009	Wedge-tail	1	S	Low	L.P.	
		Bird sp	1	SE	Low		
	1011	Bonin Type	1	N	Low	Grey	
	1011	" "	1	N	Low	"	
	1015	Sooty Shear.	2	SE	0-25		
	1019	Wedge Tail	2	NE	Low		
	1019	"	1	SW	Low		
	1022	Bonin Type	2	NE	"	Grey backs	
	1024	" "	1	NE	"	" "	
	1024	Sooty Shear	1	SW	"		
	1025	" "	2	SE	"		
	1025	White-wak Fernandez	1	N	"		
	1026	Bonin Type	3	NE	"	Grey back	
	1027	Pterodroma	1	N	"		
	1030	Sooty Shear	1	SE	"		
	1032	" "	2	S	"		
	1032	" "	1	S	"		
	1034	" "	1	S	"		

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE 2 October 1964
Pg.# 3



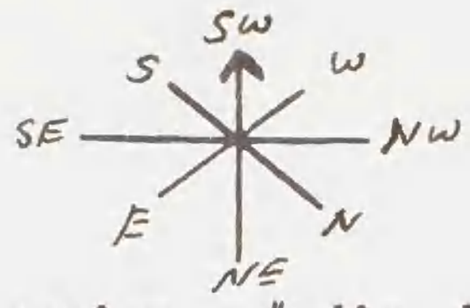
time	species	#	dir.	hgt.	remarks	loc.
1036	Sooty Shear.	1	S	Low		
1036	" "	1	S	"		
1036	" "	1	S	"		
1037	Cook's Pet	1	SE	"		
1039	Pterodroma	1	SW	"		
1039	"	1	NE	"		
1040	Wedgetail	1	NE	"		
1044	Whiteneck Pet	1	SW	"		
1045	DARK Rump Pet	1	NE	"		
1045	" " "	1	SW	"		
1045	Wedgetail Sh.	1	SW	"		
1046	Sooty Shearwater	1	S	"		
1048	Pterodroma	1	S	"		
1050	Wedgetail Sh.	1	NE	Low		
1052	Common Noddy Tern	1	SW	Low-10'		
1057	Sooty Shearwater	1	S	Low		
1058	Pterodroma	1	SE	Low		
1101	Whiteneck Pet	1	SW	Low		
1101	Wedgetail Sh.	1	NE	Low		
1102	Bonin Type	2	SSE	Low	Grey back	
1104	" "	1	SW	"		
1104	Pterodroma	1	NE	"		
1105	Bonin Type	1	SE	"	Grey back	
1106	Pterodroma	4	SW	"		
1110	"	1	SW	"		
1117	Pterodroma	1	S	"		
1118	Bonin Type	6	NW	"	Small grey patch on neck + Tail - Black back	
1120	Wedgetail Sh.	1	NE	"		
1120	White neck Pet.	1	S	"		
1123	Sooty Shear	1	SSW	"		
1124	~~Dark Rump Pet~~ W-n Petrel	1	W	Low	J.F type	
1125	Bonin Type	1	SE	"	Grey back	
1126	" "	1	E	Low	" "	
1126	Sooty Shear	1	S	+1		
1127	Pterodroma	1	S	"		
1127	Sooty Shear	1	S	"		
1128	Bonin Type	1	SE	"	Grey B.	
1130	Pterodroma	1	SE	"		

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE 2 October 1964
Pg.# 4

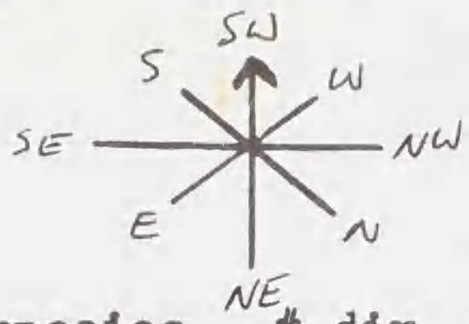


time	species	#	dir.	hgt.	remarks	loc.
1137	Sooty Shear	1	S	Low		
1138	Sooty Shear	1	SE	Low		
1140	Bonin Type	1	NE	Low		
1141	Pterodroma sp	1	S	"		
1145	Sooty Shear	1	S	"		
1147	"	1	SSE	"		
1148	—	—	—	—	Secured watch for chan	
1204	—	—	—	—	Opened watch	
1211	Sooty shear	1	S	low		
1212	"	1	SSE	"		
1212	Bonin type	1	"	"		
1214	Cook type	1	SE	"	Change reference for this area to Cook - all	
1216	Wh Nk Pet	1	S	"	have gray backs.	
1218	Dark mump	1	NE	"	Distinct white neck band, but def. bears black	
1219	Cook type	1	NE	"	wing marks & white tail feathers on top of mump.	
1219	Sooty shear	1	S	"		
1221	Sooty Shear	1	SSE	low		
1222	Sooty Shear	1	SSE	low		
1225	Bonin Type	1	S	Low		
1225	Com. Noddy	1	W	Low		
1226	Bonin Type	1	NW.	Low		
1228	Wedge Tai	1	E	Low		
1228	~~Wedge Tail~~ Cook Type	1	E	Low	gray back	
1231	Sooty Shear	3	S	Low		
1231	Pterodroma	1	S	Low		
1231	Pterodroma	1	S	Low		
1233	Sooty Shear	3	SSE	Low		
1235	Pterodroma	1	S	Low		
1235	Pterodroma	1	N	Low		
1236	"	1	S	"		
1236	Com Noddy	1	"	"		
1236	Sooty shear	3	SSE	"		
1238	Wedgetail	1	S	"		
1240	Cook type	2	NE	"		
1243	Sooty shear	1	SSE	"		
1243	Wedgetail	1	S	"		
1245	Cook type	1	SW	"		
1246	Wedgetail	1	"	"		

SI-MNH-958e
7-28-64

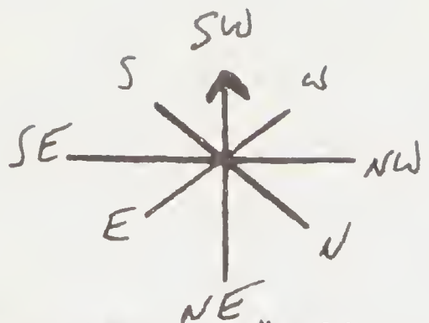
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 2 October 64
Pg.# 5



	time	species	#	dir.	hgt.	remarks	loc.
	1247	Wedgetail	1	N	low		
	1306	Frigate	2	G	100'	Distant; no flock visible.	
	1317	Pterodroma	1	SE	low		
	1317	Wedgetail	1	"	"		
	1318	Wh Nk Pet	1	"	"		
F	1322	Wedgetail	10	N	"	not feeding	
	1323	"	1	N	"		
	1324	Pterodroma	1	SE	"		
	1327	Great Frigate	2	NE	100'	Reappeared 1333; both immature.	
	1328	Pterodroma	1	N	low		
	1328	Sooty shear	1	S	"		
	1331	Newell's	1	"	"		
	1335	Pterodroma	1	WSW	"		
	1337	"	1	W	"	— Not Cook's	
	1341	"	1	~~S~~SW	"		
	1349	G. Frigate	1	G	150'		
	1349	Sooty Shear	1	S	Low		
	1355	Kermadec Pet	1	NNE	"		
	1403	Sooty tern	1	E	30'		
	1404	Shear-Pet	2	SW	low	— probably Wedgetails	
	1404	Cook type	1	NE	"	light gray back, brownish cheeks	
	1415	Shear Pet	1	NW	"		
	1420	Wh-n Petrel	3	S	Low		
	1421	Pterodroma	1	NW	Low		
F	1424	Wh Nk-Pet	5	NE	"	— Dark rumps? Clear white band over tail, dark	
	1424	Cook type	1	"	"	wrist spots, Wh neck.	
	1425	Newell's	1	SSE	"	— Sitting on water.	
	1435	W-n Petrel	1	~~S~~SW	Low	— sitting on H_2O	
	1435	Cook's Type	1	SW	Low		
	1435	Newell's	1	NE	"		
	1436	Cook type	1	SW	"		
	1436	Wedgetail	1	NE	"		
	1440	Sooty shear	1	SSE	"		
	1441	"	1	"	"		
	1448	Newell's	1	SSW	"		
	1448	Wh Nk Pet	1	"	"	No dark wrist spots visible	

SI-MNH-958e
7-28-64

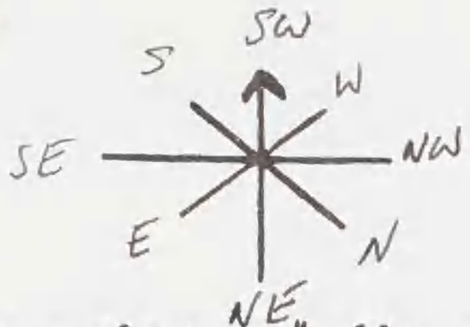


SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 2 Oct 64
Pg.# 6

time	species	#	dir.	hgt.	remarks	loc.
1456	Pterodroma	1	SW	low		
1457	Wedgetail	1	NE	"	L.P.	
1457	Sooty shear	1	SSE	"		
1458	Wedgetail	1	NE	"	L.P.	
1512	Cook Type	1	NNE	Low		
1528	?Terodroma	1	SSW	Low		
1533	Cook type	2	S	"		
1555	Wedgetail	1	N	"		
1557	White Neck	1	NE	"		
1620	Cook type	1	SW	"		
1636	Wedge Tail	1	NE	Low		
1647	Wh. Tail Tropic	1	S	Low→40'	got up off water	
1653	Sooty Shearw.	1	S	Low		
1654	" "	1	S	"		
1654	" "	1	S	"		
1700	Bonin type	1	SE	Low		
1700	Pterodroma	1	SE	Low		
1705	Bonin type	1	SE	Low		
1722	" "	1	E	"		
1722	Sooty Shear	1	S	"		
1722	Wedgetail sh.	1	N	"		
1724	Dark rump Pet	1	NE	"		
1730					secured	

SI-MNH-958e
7-28-64



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATE

DATE 3 Oct 64
Pg.# 1

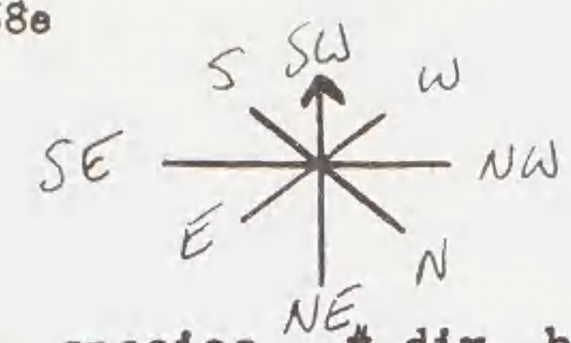
	time	species	#	dir.	hgt.	remarks	loc.
	0730					start watch [time 1 hour behind Honolulu]	
	0732	Shear. Petrel	2	N	Low		
	0734	Pterodroma	3	S	Low		
	0745	Cook's Petrel	1	NW	low		
F F	0755	Sooty Tern	15	↑	High	Feeding	
	|	Shear-Petrel	17	|	Low		
	0755	Cook's Petrel	1	S	low		
	0818	Porpoise sp.	4	SW	—	heading SW when first seen - veered to W when ship approached closely. Large individuals	
	0825	Cook's Petrel	1	S	Low		
	0843	Sooty Tern	3	S	50'		
	0850	Cook Petrel	1	NW	low		
	0900	"	1	N	"		
	0901	Pterodroma	1	S	"		
	0903	"	1	"	"		
	0906	Cook's petrel	1	N	"		
	0917	Cook Type	1	SE	Low		
	0923	Cook type	1	NNE	"		
	0925	"	1	N	"		
	0927	Cook Type	1	SSW	Low		
	0942	Wh Nk Pet	1	NNE	"	— sitting on water	
	1003	Cook Type	1	SSE	Low		
	1016	Cook Type	1	SE	Low		
	1017	Cook Type	1	SSE	Low		
	1021	Shear-Pet	1	SSW	Low		
	1026	Cook Type	2	NW	Low		
	1031	Pterodroma	1	NNW	Low		
	1039	Shear-Pet	1	S	Low		
	1048	Pterodroma	1	"	"		
	1053	"	1	"	"		
	1120	Cook's petrel	1	N	"		
	1140	—	—	—	—	— lunch	
1200	1225	Shear-Pet	2	S	low	Sooty shear? — watch resumed	
	1247	Sooty Shear	2	SSE	Low		
	1252	Cook type	1	N	"		
	1252	Sooty shear	1	S	"		

SI-MNH-958e
7-28-64

ATF

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

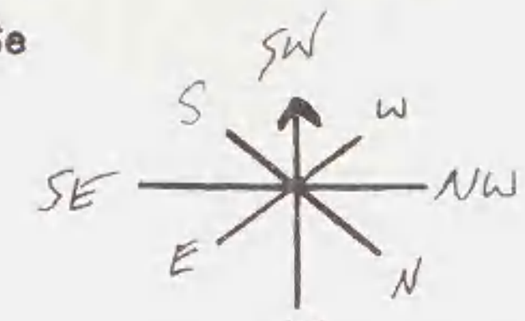
DATE 3 Oct '64
Pg.# 2



time	species	#	dir.	hgt.	remarks	loc.
1305	Cook-s Petrel	1	N	Low	—	head + throat + light breast.
1408	Cook-s P.	2	SW	Low		
1411	Pterodroma sp.	1	G	Low	Shot at twice — dark back + head, distinct break between dark & light underwings, thin pointed wings, shallow wing-beat. Similar to Phoenix Is. (Wedgetail?)	
1417	Wh-n. Pet.	1	NW	Low		
1426	Cook-s Petrel	1	SW	Low		
1428	Cook-s Petrel	1	NW	Low		
1429	Cook-s Petrel	1	SE	Low		
1431	[illegible]	1	SW	Low		
1436	Wedge-tail	1	NW	Low	L.P.	
1530	[illegible] golden plover sp.?	1	NE		— golden plover	
1534	Pterodroma sp.	1	NW			
1551	Cook's pet	1	N	Low		
1606	Shear-pet	1	W	"		
1609	Sooty shear	1	SSE	"		
1612	Cook type	1	N	"		
1613	Sooty tern	3	"	25'		
1614	Cook type	1	S	low		
1621	Wh Nk-Dk Rump	1	NE	"		
1626	Wedgetail	1	"	"		
1636	Shear-Pet	1	SW	"		
1656	Wedgetail	1	N	"		
1710	Cook type	1	"	"		
1715	Golden plover	1	SE	"		
1718	Cook type	2	SW	"	Extremely rapid, twisting flight, one chasing the other.	
1720	Wh Nk-Dk Rump	1	S	"		
1725	Cook type	1	SSW	"		
1730	—				watch secured	

ATF

SI-MNH-958e
7-28-64



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

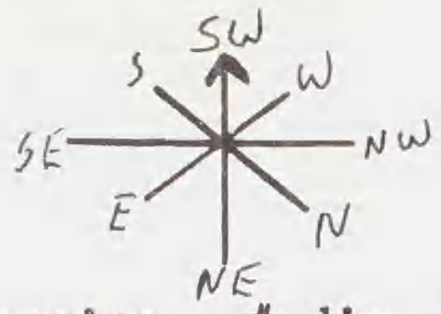
DATE Oct. 4, 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0730			light	plane	watch started	
	0731	Wedgetail	1	~~S~~ N	low		
	0750	Sooty Shear.	2	S	"		
F	0754	Pterodroma	3			Appeared to be feeding; flew in circles and	
		Wedgetail	6			a school of several hundred flying fish left the water	
		Cook's	1			under them - perhaps ~~porpoise or~~ tuna under them.	
						1 dark phase wedgetail.	
	0807	Pterodroma	1	N	low		
	0810	"	1	"	"		
	0824	Golden plover	1	ENE	10'	Flying w/ slow wingbeats as though tired.	
	0826	Pterodroma	1	N	Low		
FF	0827	Shear - Pet	6			Same pattern as 0754, with a large school of	
		Wedgetail	1	dark phase		fish leaving the water. The flock then broke up	
		Sooty tern	1	Immature		and headed north.	
	0836	Pterodroma	1	NNW	low		
	0840	Golden plover	3	E	30'		
	0842	PTerodroma	1	SE	Low		
	0847	White Pet	3	N	"		
	0854	Pterodroma	1	SSW	"		
	0908	PTerodroma	1	NNW	Low		
	0914	PTero droma	1	SSW	Low		
	0916	Wedgetail	1	SE	Low	DARK Phase	
	0921	PTerodroma	1	SSW	Low		
	0931	Shear - Pet	1	S	"	Unusually high glides for all but sooty shear;	
	0942	Sooty shear	1	S	"	White underside, however.	
	0943	Shear Pet	1	E	"		
	0948	Pterodroma	1	N	"		
	0954	Cook type	2	"	"		
	1008	"	1	"	"		
	1008	White Neck	1	"	"		
	1009	PTerodroma	1	NNW	Low		
	1010	Cook Type	1	ESE	Low		
	1017	Cook's	1	NE	Low		
	1020	Sooty Shear	1	S	Low		
	1020	Pterodroma	1	NW	Low		
	1031	White Petrel	1	NNW	Low		
	1035	Cook's	1	ENE	Low		

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF
DATE 4 Oct 1964
Pg.# 2



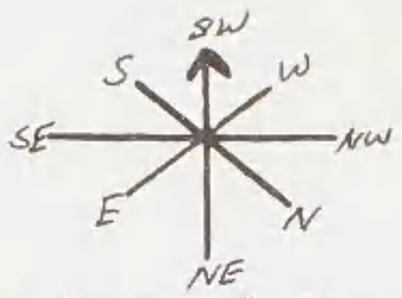
	time	species	#	dir.	hgt.	remarks	loc.
10"	1035	Sooty tern	6	N	20'		
	1036	Sooty shear	1	SSE	Low		
	1040	Cook's	1	NNW	Low		
	1042	White Neck-Dark Rump	1	"	"		
	1044	Cook's	1	S	"		
	1045	"	1	"	"		
	1046	"	1	"	"		
	1050	Cook's	1	SSE	Low		
F	1056	Wedgetail	17			Not seen feeding.	
		Sooty Tern	10	Ø	Low		
	1107	Cook's Pet	1	N	Low		
	1110	Shear Pet	1	SE	Low		
	1110	Cook's Pet	1	SE	Low		
	1111	Cook's	1	ENE	Low		
	1115	W-n Petrel	1	SE	Low		
	1116	Sooty Shear	1	S	Low		
	1116	- -	-	-	-	- saw large brown (whale) w/ dorsal fin, spouted twice to about 2 ft. Submerged before ship came up on it.	
	1117	Wh.-Nk Pet	1	S	"		
	1123	Cook's Pet	1	NNE	Low		
	1130					watch secured	
	11:50					watch commence	
	11:51	Wedgetail	1	ESE	light phase		
	11:54	Shear-Petrel	1		landed on water		
	1205	Cook's	1	NE	Low		
	1207	Cook's	1	S	Low		
	1208	Cook's	1	NNW	Low		
	1211	"	1	SE	"		
	1220	"	1	N	"		
	1221	"	1	NNE	"		
	1224	Sooty shear	1	S	"		
	1228	Cook's	1	NE	Low		
	1232	W-n Petrel	1	S	Low		
	1305	Sooty tern	1	ENE	10'		
	1306	Shear-Pet	1	S	low		
	1313	~~Boom~~ Cook type	1	N	Low		

SI-MNH-958e
-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE 4 October 1964
Pg.# 3



	time	species	#	dir.	hgt.	remarks	loc.
	1325	W-n Petrel	1	SSE	Low		
	1410	"	1	NE			
	1420	Cook's Pet	1	SE	Low		
	1432	W-n Petrel	1	NW	Low		
	1433	W-n Petrel	1	SE	Low		
	1439	Kermadec Petrel	1	NNW	Low	all dark - not white circle instead a white stripe extending towards tip of wing.	
	~~1430~~						
	1441	Cook's Petrel	1	SE	"		
		Kelp	2	"	"		
	1445	Cook's Petrel	1	"			
		W-n Petrel	1	"			
	1450	Cook's Pet	2	SSW	Low		
	1452	R-T Tropic	1	NE	Low		
	1452	W-n Petrel	1	SE	Low		
	1453	Cook's	3	S	Low		
	1459	W-n Petrel	1	S	Low		
	1503	Pterodroma	1	N	Low		
	1528	Sooty Shear	1	S	Low		
	1531	W-n Petrel	1	SSW	Low		
	1539	W-n Petrel	1	ENE	Low		
	1539	Pterodroma	1	S	Low		
	1539	Shear - Pet	3	S	Low		
	1542	Cook	1	SSE	"		
	1546	"	1	N	"		
	1547	Wedgetail	1	NE	"	L. P Phase	
	1550	Cook	1	NW	Low		
	1553	"	2	NNE	"		
	1555	Pterodroma	2	NNE	Low		
	1600	Sooty Shear	1	S	Low		
	1600	W-n Petrel	1	NW	Low		
	1601	Sooty Shear	1	S	Low		
	1604	Pterodroma	3	S	Low		
F	1604	Sooty Tern	5	ESE	60'	not feeding	
	1607	Pterodroma	1	W	Low		
	1608	Cook's	2	W	Low		

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF
DATE 4 OCT 1964
Pg.# 4

	time	species	#	dir.	hgt.	remarks	loc.
	1609	Pterodroma	2	S	Low		
	1609	W-n Petrel	1	N	Low		
	1619	Cook's Petrel	2	SE	Low		
	1624	Wedgetail	1	NE	"	Dark phase	
	1630	Wh-n. Petrel	1	S	Low		
	1631	Pterodroma	1	N	"		
	1634	Cook's	1	SE	"	Sitting on water	
	1636	"	2	SSE	"		
	1637	Pterodroma	1	S	"		
	1640	—	—	—	—	School of fish breaking surface and jumping. Heading	NE
						No bird activity noted	
	1644	Cook's P.	1	SE	Low		
	1646	Cook's P.	1	E	Low		
F	1649	Sooty Tern	25	E		at least 2 imm.	
		Wedgetail	2			No feeding. Fish jumping.	
		Cook's	3			1LP + 1DP	
		W-neck P	6				
	1655	Br. Sooty	1	S	Low	adult	
	1700	White Neck	1	S	"		
	1707	Wh Neck	1	NW	Low		
	1710	Cook's P.	2	S	Low		
	1712	Pterodroma	1	S	Low		
	1715	Bulwer's	1	SSE	"		
	1721	Wh Neck Pet	1	S	"		
	1725	Cook's	1	SE	Low	~~Water secured.~~	
	1730					Water secured.	
						The End.	

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF
DATE Oct 5, 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0730	—	—	—	—	start watch	
	0738	Sooty Shearw	4	S	Low		
	0741	Cook's Petrel	1	NNE	Low		
F	0745	Sooty Shear	12	S	Low	not feeding	
	0751	Sooty Shear	1	S	Low		
F	0751	"	13	SSE	"		
	0805	Bulwer's P.	1	S	Low		
	0811	Sooty Shear	1	S	Low		
	0812	" "	2	S	"		
	0812	" "	2	S	"		
F	0812	" "	8	S	"	not feeding.	
	0813	Cook's	1	SSE	Low		
	0815	Sooty Shear	1	SSE	Low		
F	0819	"	8	"	"	not feeding	
	0825	Wh-n. Petrel	1	SW	Low		
	0825	Cook's	1	SE	Low		
F	0825	Sooty shear	25±	S	SSE	"	
	0825	Shear-Pet	1	NE	"		
	0827	Sooty Shear	1	SSE	Low		
	0830	"	1	"	"		
	0831	"	2	"	"		
	0832	Sooty Shear	1	SSE	Low		
	0832	Sooty Shear	1	SSE	Low		
F	0837	"	9	"	"	not feeding.	
	0838	"	1	"	"		
	0838	Wedgetail	1	S	"		
	0839	Bulwers	1	"	"		
	0841	Sooty shear	1	"	"		
	0844	"	1	"	"		
	0846	"	1	"	"		
	0847	"	1	"	"		
	0856	Cook's	1	NW	Low		
	0858	Sooty Shear.	2	SSE	Low		
	0910	Sooty Sh	2	SSE	Low		
	0910	Golden Plo	1	NE	Low→60'		
	0911	Sooty Sh	1	SSE	Low		
	0913	W-n Petrel	1	NE	Low		
	0918	Cook's	1	NW	Low		

T.S.	T. b
37	114

Shear - Petrel

T	W	P	B	T	W	P	B
3	1	1	2	11	1	1	2

Other

Golden Plover

T. S	T. B
1	1

Flocks

T. F	T. B
6	75

SI-MNH-958e
7-28-64

186
102
84

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF
DATE 5 OCT 1964
Pg.# 2

	time	species	#	dir.	hgt.	remarks	loc.
	0920	SooTy Shear	3	SSE	LOW		
F	0921	SooTy Shear	47	SSE	LOW		
F	0923	Sooty Sh	15	SSE	Low		
	0923	GoldenPlover	2	NNW	50'	-0931 Two still ninching ship-0935	
F	0929	Sooty Shear	15	SSE	Low	-Traveling, not feeding	
	0930	Cooks	1	W	Low		
	0943	Cook's	1	W	Low		
F	0956	Sooty Shear	50	SSE	"		
F	0957	" "	15	SSE	"		
	0959	" "	1	SSE	"		
	1014	~~Boatn~~ Cook type	1	N	"		
	1021	Sooty Shearwater	24	SSW	"		
	1021	" "	16	SSW	"		
	1027	Cooks	1	NE	"		
F	1030	Sooty Sh	16	S	Low	not feeding	
F	1035	"	14	S	"	"	
	1045	"	1	S	"		
	1047	"	1	"	"		
F	1055	"	18	"	"	Not feeding	
	1057	Cooks	1	"	"		
	1059	Shear-Pet	1	S	Low		
	1100	Shear-Pet	1	S	Low		
	1105	W-n Pet	1	NE	Low		
	1105	Shear-Pet	1	NE	Low	Size & shape of Cook's with uniform brown back underparts white except wings which make brown with white spot towards tips	
	1105	Bulwer's	1	?	Low		
	1105	W-n Petrel	1	?	Low		
	1105	Cook's	1	?	Low		
	1107	Cook's	3	W	Low		
F	1110	Sooty tern	12			Not seen feeding; at least 1 imm. sooty	
		Shear-Pet	8				
F	1113	Sooty. shear	5	S	low		
F		"	18	"	"		
	1115	"	1	"	"		
	1115	Wh Nk Pet	2	NE	"		
	1118	Shear. Pet	1	SW	"		

T.S.	T.B
35	270

Shearwater - Petrel

T	W	P	B	T	W	P	B
34	—	10	1	268	—	13	1

Other

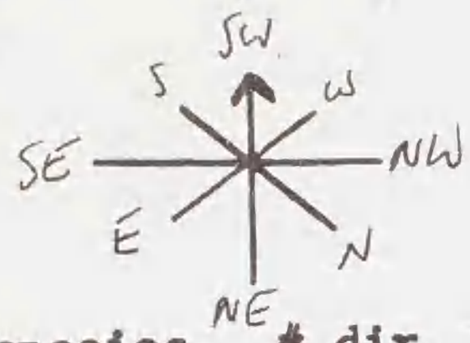
Golden Plover 1/2

Flocks - 14
birds - 243

I-MNH-958e
-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 5 October 1964
Pg.# 3



	time	species	#	dir.	hgt.	remarks	loc.
	1119	Shear Pet	1	S	low		
	1122	Pterodroma	1	N	"		
	1123	Sooty shear	1	S	"		
	1129	Bulwer's	1	"	"		
	1129	Wh-NK Pet	1	"	"		
	1130					Secured watch	
	1155					start watch	
F	1157	Sooty Tern	30	flock			
		Noddy	3				
		Wedgetail	1			light phase	
		Cook's Petrel	4				
	1158	Wedgetail	1	S		dark phase	
F	1159	Sooty Tern	14				
F	1200	Fairy Tern	1			Not seem feeding.	
		Sooty Tern	25				
	1204	Wedgetail	1	SW	low		
	1204	Shear-Pet	2	S	"		
	1208	W-n Petrel	2	NE	Low		
	1208	Cook's P	1	S	Low		
F	1217	Sooty shear	13	"	"		
	1220	Golden Plover	1	N	70'		
F	1228	Sooty shear	15+3	S	Low		
	1235					changed course to W, ~~then N, etc. on~~ ~~search pattern~~	
	1235	Wh-n. Petrel	2	S	low		
	1240					change to N.	
	1241	Sooty shear	1	S	"		
	1242	Fairy tern	1	ESE	"		
F	1247	Sooty shear	20	S	"		
	1247					change to E.	
	1256					" " S.	
	1302	Sooty shear	1	SSE	low		
	1304	Bulwer's	1	S	"		
	1308					Change to W.	
	1316	Sooty shear	1	SSE	"		
	1321					Change to N.	
	1325	Shear-Pet	1	W	low	Sitting on water — see 1105 — White throat, brownish head, whitish rump, metallic translucent trailing edge of wing	
	1335					Change to E	

T.S.	TB
24	147

Shea.-Pet

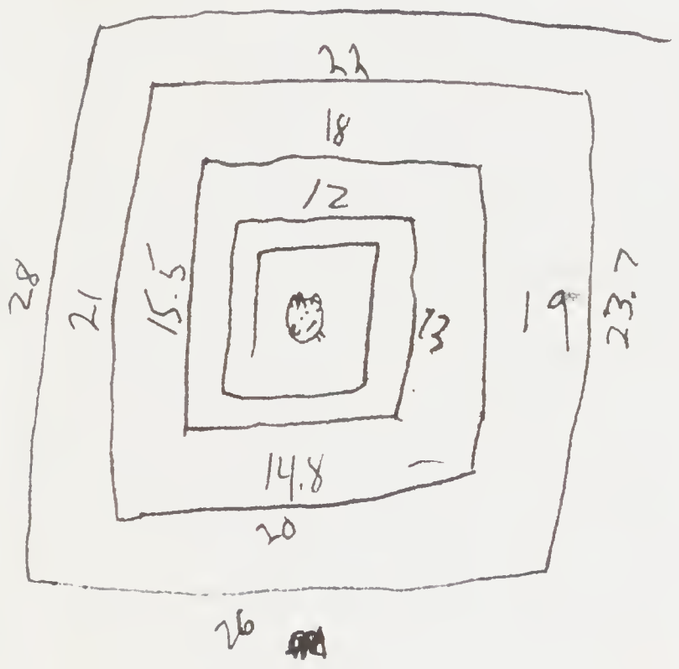
T	W	B	P	T	W	B	P
20	3	2	6	72	3	2	11

Terns

	T.S	T
Sooty	3	69
Noddy	1	3
Fairy	2	2

Plover
1/1

Flock - 6 no feeding
Birds 125


22
18
12
28
21
15.5
13
19
23.7
14.8
20
26

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 5 October 1964
Pg.# 4

	time	species	#	dir.	hgt.	remarks	loc.
	1350					Change course to S.	
	1355	Shear-Pet	1	S	Low		
	1400	Wh NK Pet	1	N	"		
	1408					Change course to W.	
	1426	Shear-Pet	1	S	Low		
	1426					Changed course to N	
	1430	Sooty Shea	1	S	Low		
	1443	Golden Plover	1	N S	Low	Broken primary - still in breeding plumage but molting out of it. Still present 1536, circling ship Recapped 1712.	
F	1444	Sooty Shear	18±3	S	Low		
	1444	Pterodroma	1	S	Low		
	1447					Change course To E	
	1452	Shear - Pet	1	SSW	"		
	1458	"	1	N	"		
F	1500	Sooty shear	150 ±10	S	"		
F	1509	Sooty Shear	5	S	Low		
F	1511	Sooty Shear	26	S	Low		
	1511					Change course to S	
	1512	Sooty Sh	1	SE	Low		
	1516	"	1	S	"		
	1525	"	1	"	"		
	1532					Course change → W	
	1535	Sooty shear	38 ±5	S	"		
	1537	Cook	1	NE	"		
	1542	Bulwer's	1	SW	"		
	1550	Sooty shear	30 ±5	SSW	"		
	1551	Cook	1	N	"		
	1552	Sooty shear	1	SSW	"		
	1555	"	2	"	"		
	1556					3/9 to N.	
	1558	Sooty shear	1	S	"		
	1600	"	1	"	"		
	1602	"	1	SSW	"		
	1603	"	1	"	"		
	1603	Bulwer's	1	S	"		

T. S	T. B
27	289

Shear-Pet.

T	W	P	B	T	W	P	B
76	—	H	2	288	—	H	2

other
Golden Plover 1/1

Flocks - 6
Birds - 267

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF.

DATE 5 Oct 64
Pg.# 5

time	species	#	dir.	hgt.	remarks	loc.
1606	Cook	1	S	low		
1612	"	1	"	"		
1614	Sooty shear	1	"	"		
1615	"	2	"	"		
1616	"	1	"	"		
1619	"	1	"	"		
1620					Change course to E	
1622						
1637	Golden Plover	1	W	80'	Fresh, clean winter plumage!.	
1650					Change course to S.	
1653	Sooty shear	4	S	low		
1700	Cook's	1	SE	Low		
1700	~~Phoenix Is. Pet~~	1	N	Low	Black above, dark under wings, white breast & neck.	
1709	Sooty shear	1	SSE	"		
1712	"	60 ±10	"	"		
1720					Golden Plover seen at 1443 still around.	
1720					watch secured	

T.S.	T.B
13	76

Shear - Pet

T	W	P	B	T	W	P	B
12	-	4	-	75	-	4	-

Others
Golden Plover 1/1

Flocks

1	60

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE Oct. 6, 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0730	~~~~~~~~~~				watch started - going west	
	0730	Wedgetail	1	SE	low	dark phase	
F	0736	Sooty shear	10	SSW	"		
	0742	"	1	"	"		
	0743	Cook's	1	E	"		
F	0747	Sooty shear	20	SW	"		
	0752	"	1	"	"		
	0754	Cook's	1	S	"		
	0755	Cook's	2	NNE	Low		
	0756	Wedgetail	1	S	Low		
	0801	Golden Plo.	1	E	'LO'	calling.	
	0802	Sooty shear	1	SSW	low		
	0807	Cook's	1	NE	Low		
	0810	"	1	SE	"		
	0815	Sooty sh	3	S	Low		
	0819	Pterodroma	1	NW	"		
	0820	~~~~~~~~~~				Change course to S.	
	0821	Wedgetail	1	SE	"	L.P.	
	0826	~~~~~~~~~~				Change course to W.	
	0833	~~~~~~~~~~				Change to N	
	0835	R-T Tropic	1	N	80'		
	0842	Sooty Shear	2	S	Low		
	0842	~~~~~~~~~~				Change to E	
	0900	Sooty shear	1	S	"		
	0907	"	1	"	"		
	0915	~~~~~~~~~~				Change to N	
	0919	Shear-Pet	1	SW	"		
	0922	Sooty shear	1	SE	"		
	0924	"	3	S	"		
F	0926	"	15	"	"		
	0926	Cook's	1	N	"		
	0930	~~~~~~~~~~				Course change to E.	
F	0936	Sooty shear	60 ±3	S	"		
	0949	~~~~~~~~~~				Change to S.	
	0955	Cook's	1	S	"		

T.S	T.B
27	134

Shear - Petrel

T	W	P	B	T	W	P	B
25	2	8	—	132	2	9	—

Other

R.T. Tropicbird	1/1
Golden Plover	1/1

Flocks 4 Birds 105

SI-MNH-958e
7-28-64

ATF

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE Oct. 6, 1964
Pg.# 2

	time	species	#	dir.	hgt.	remarks	loc.
	0957	Sooty shear	1	S	low		
	1001	Shear-Pet	1	S	"		
before	1010					change to W course heading 90° E - speed reduced	
	1025						
	1030	Sooty Shear.	1	SW	Low		
	1033					course heading 270° W	
	1042					" " 90° E Normal speed	
	1049	Sooty Shear	1	SW	Low		
	1052					course heading 270° W	
	1100	Cook Bonin type	1	NNE	low		
	1100					course heading 360° N - Speed Reduced	
	1100	White-Neck P.	1	E	low		
	1104					Speed slow Ahead 360° N	
	1106	Sooty Shear	6	S	Low		
	1109	" "	1	E	low		
	1112	" "	4	NW	Low		
F	1115	Sooty Shear	13	WSW	Low	circling but not actually feeding	
	1116	" "	1	S	Low		
	1118	" "	3	SSE	Low		
	1128					watch stopped course changed to 90° E sometime	
	1152					" Resumed	
						slow ahead.	
	1155	Sooty Shear.	1	E	Low		
F	1204	" "	13	SE	Low		
	1211	" "	2	S	Low		
	1232	Sooty Shear	1	S	Low		
	1234	"	1	"	"		
	1236					change to S	
	1251	Wedgetail	1	ENE	Low	L.P.	
	1255	Kermadecp	1	N	"	Dark phase	

T.S.	T.B
19	54

Shear-Pet

T	W	P	B	T	W	P	B
17	1	3	—	54	1	3	—

Flocks	Birds
3	32

SI-MNH-958e
7-28-64

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

DATE Oct. 6, 1964
Pg.# 3

	time	species	#	dir.	hgt.	remarks	loc.
F	1258	Sooty shear	8	SSE	low		
	1300	"	1	"	"		
F	1316	"	40 ±5	"	"		
	1320	~~Sooty Pet~~ Wedgetail	# 1	N	"	dark ~~Dark phase wedgetail or Hornada~~ phase	
	1327	Sooty Sha	2	SE			
	1327					Change course to W Resume speed 7	10kn
	1343	Com Noddy	2	SW	Low.		
	1344	Cooks	1	NW	"		
	1352	Sooty shear	1	SSW	"		
	1352					Change to N.	
F	1357	Wedgetail	10	N		9 Dark, 1 light phase; not feeding	
	1357					Portuguese man-o'-war or Velella-like organisms	
	1403	Wdg-tail	1	E	low	(~1" dia) seen floating. dark phase	
	1409	Sooty shear	1	S	"		
	1418	Wedge-tail	1	S	Low	Dark phase	
	1428					change course to E.	
F	1435	Sooty Shear.	25	S	Low		
F	1436	Sooty Shear	36	S	Low		
	1442	Wh-n. Petrel	1	S	Low	(Rain squall 1452-1458)	
	1500					change course to S	
	1510	Cook's P.	1	S	Low		
	1512	Cook's P.	1	SW	Low		
F	1516	Sooty Sh.	9	S	Low		
	1528	Cook's P.	1	S	Low		
	1531	Cook's P.	1	E	Low	sitting on water	
	1532					change course to W	
	1533	Cook's P.	1	S	Low		
	1605					Change to N	
	1609	Sooty shear	1	SSE	"		
	1610	"	1	"	"		
	1615	"	1	S	"		

TS	TB
23	149

Shear. - Pet.

T	W	P	B	T	W	P	B
22	- 4	- 6	-	147	- 13	- 7	-

Terns

T	#
1	2

Flocks	Birds
6	129

365
6000
2,190,000

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE Oct. 6, 1964
Pg.# 4

	time	species	#	dir.	hgt.	remarks	loc.
	1633	Cooli's	1	E	Low		
	1634	Sooty Shear.	1	S	Low.		
	1644					change to East	
F	1646	Sooty Shear	8	SE	Low		
	1702	"	1	S	"		
F	1706	Sooty Shear	14	S	Low		
	1717	Cook Type	1	NNW	Low		
	1723					change to South	
	1730					End Watch!	

TS	TB
6	26

Shear - Pet

T	W	P	B		T	W	P	B
6	-	2	-		26	-	2	-

Flock	Birds
2	22

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE October 7, 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0730					watch started — east	
	0736					changed course to S	
	~~0739~~	~~[illegible]~~					
	0741	Wedgetail	1	SE	low	L.P.	
	0744	Shear-Pet	2	SSE	"	probably Wedgetails, possibly Bulweis.	
	0745	Cook's	1	E	"		
	0749	Shear-Pet	1	SSE	"		
	0753	Ruddy Turn	1	B	Low	circling ship.	
	0756					Change course to NW.	
	0802	Sooty Shear.	1	ESE	Low		
	0804	Wedgetail	1	E	Low	DARK PHASE	
	0812	"	1	N	Low	L.P. Phase	
	0812	Haurcourt's Typestorm Petrel	2	WSW	Low	2 Black with broad white rump very conesp. in flight. Easy gliding flight also Butterfly-like flight easy downward strokes. Flight not erratic.	
	0820	Wedgetail	2	SE	Low	dark phase	
	0825	W-n Petrel	2	SE	Low		
	0830	Wedgetail	3	NNW	Low	dark phase	
	0836	Cook Type	1	N	Low		
	0850	W-n Petrel	1	[illegible]	Low		
	0905	Golden Plover	1	SSW	To 70'		
	0908	Wedgetail	1	NW	Low	light phase	
F	0917	Fairy Tern	1				
		Terns	6	[illegible]	Low	Not seen feeding.	
		Shear-Pet	5				
	0931	Cook's	1	SE	Low		
	0948	Shear-Pet	1	S	Low		
	0950	Wedgetail	1	NE	Low	1 dark phase	
	0957	Cook's	1	E	Low		
	0958	W-n Petrel	1	SE	Low		
	1000	Shear-Pet	1	SE	Low		
	1002	Cook's Petrel	1	SW	"		
	1006	Cook's	1	SE	Low		
	1008	Cookin Petrel	1	NW	Low		

SI-MNH-958e
7-28-64

ATF

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 7 Oct. 1964
Pg.# 2

time	species	#	dir.	hgt.	remarks	loc.
1009	White Neck	1	SE	low		
1012	Bulwer's	1	"	"		
1016	Dark rump	1	W	"		
1017	Bulwer's	1	NE	"		
1019	Cook's	2	SE	"		
1028	Pterodroma	1	"	"		
1033	shear-Pet	1	SW	"	Over-all grayish color with white on rump, short tail, white ring around cheeks & throat, black bill, roughly 15" long, wings curved & pointed & more like nighthawk than most shear-pets, chunky body, trailing 1/2 of wing translucent and clearly forming a pattern. (Possibly Collared Petrel. NE Mottled Petrel NW)	
1034	Cook's	1	SE	"		
1045					Course change to NE.	
1049	Cook's	1	NE	"		
1051					" " " SE.	
1054	Cook's	1	SE	"		
1055	Bulwer's	1	"	" sitting on water		
1056	"	1	"	also sitting on water		
1057	Sooty shear	2	SSW	low		
1057	Shear-Pet	1	SSW	"	same ~~bird~~ species as 1033 - not as close this time.	
1107	Bulwer's	1	2	"		
1122	Sooty shear	1	SE	"		
~~1130~~					Secure watch	
1124	Sooty Sh	4	SE	Low		
1125					Secure watch.	
1153					unsecured watch change twice → NW	
1154	Bulwer's	1	SE	Low		
1158	Sooty shear	1	S	"		
1203					course heading 135° SE	
1207	Bulwer's Petrel	1	S	Low		
1223	Bulwer's	1	SE	Low		
1236	Collared Type	1	S	Low	Dark leading edge of wing.	
1245					change course to NW	
1254	White Neck	1	W	Low	Attempted to feed but evolutionary adaptation of demonically elusive flying bird proved too much. Didn't dive but dipped for it.	

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE 7 Oct 64
Pg.# 3

	time	species	#	dir.	hgt.	remarks	loc.
	1301	Cook's	1	SE	Low		
	1304	Bulwer's	1	NW	Low	Sitting on water. Crapped on takeoff. Carrying a small fish in mouth. Flew about 100 yds, landed & ate food. Then took off again.	
	1325	Sooty Shear	1	S	Low		
	1325	Sooty Shear	2	S	Low		
	1325	Collared Type	1	S	Low	— light ~~white~~ & tips of wing. (Mottled Petrel PW)	
	1330	Sooty Shear	1	S	Low		
	1331	Sooty Shear	1	S	Low		
	1332	Shear-Pet	1	NE	Low		
	1336	Ruddy Turnst	1	—	30'	circling 4 pm - reappeared 1424 Landing on ship Caught 1545	
	1338	Cook's	1	SE	Low		
	1338	Sooty Shear	1	S	Low		
	1339	W-r Petrel	1	?	Low		
	1341	Wedgetail	1	SE	Low	dark phase	
	1344					Reduced speed	
	1348	~~Sooty Shear~~ ~~Dark Phase~~ Wedgetail Sh.	1	SE	Low	— Dark Phase.	
	1354	Sooty Shear.	4	SSE	Low		
	1356	Cook's	1	SE	Low		
	1402	~~Nowells~~ Shear-Pet's	1	NE	"	Nawell's or Audubon's ?	
	1414	Pterodroma	1	E	"		
F	1439	Shear-Pet	14			appeared to be feeding	
		Fairy tern	2				
	1455	White Neck	1	SE	"		
	1505	Bulwer's	1	S	Low		
	1521	White Neck	1	NE	"		
	1531	Cook's	1	W	"		
	1539	Harcourt's storm pet	1	S	"		
	1645	Shear-Pet	1	NNE	Low		
	1655	Pterodroma	1	N	Low	similar to Cook's but darker on back with ? prom. black W. Underparts same but edged dark in broader. Dark cap extending on to cheeks white around eye. (White-winged Petrel PW) & nape	
	1700	Wedgetail	1	ESE	Low		
	1715	Wedgetail	1	N	Low		

SI-MNH-958e
7-28-64

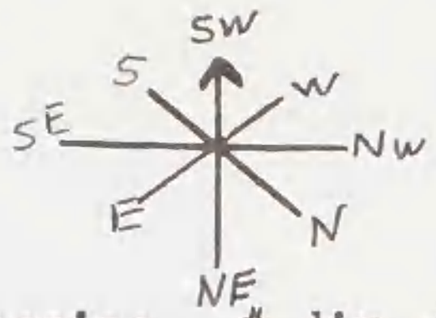
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE 7 October 1964
Pg.# 4

time	species	#	dir.	hgt.	remarks	loc.
1726	Cook's Petrel	1	SSW	Low		
1727	Wedgetail	1	ESE	Low	Dark phase	
1730					End Watch.	

SI-MNH-958e
7-28-64



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF

DATE Oct. 8, 1964
Pg.# 1

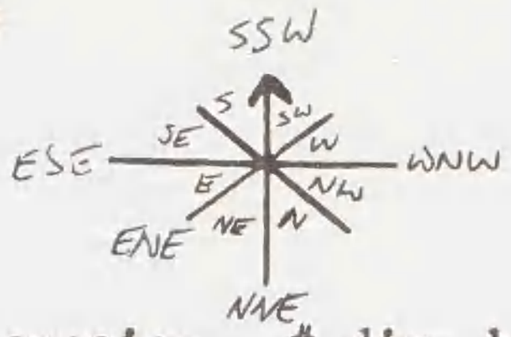
	time	species	#	dir.	hgt.	remarks	loc.
	0735					started watch	
	0741	Wedgetail	2	N	Low	dark phase	
	0755	W-n Petrel	1	NW	Low		
	0759	Sooty Shear	1	SE	"		
	0806	White Neck	1	S	"		
	0812	"	1	SSW	"		
	0812	"	1	NE	"		
	0820	Bulwers	1	"	"		
	0823	Wedgetail	1	SE	"	Dark phase	
	0833	Sooty shear	2	SSW	"		
	0836	Shearwater	2	SSE	"	Typical shearwater flight. all dark including bill. Pale-footed? Wedgetail size.	
	0843	Shear-Pet	1	S	Low		
	0844	Golden Plover	1	W	80'	calling.	
	0847	Bulwers	1	NE	Low		
FF	0903	Sooty Tern	25±5		1000'	Feeding. Too far to see any fish.	
		Wedgetail	15±5		Low	most appeared to be dark phase distant	
F	0915	Wedgetail	10		Low	Not feeding; most appeared to be dark phase; distant.	
	0919	Wedgetail	1	SE	Low	dark phase	
	0924	Sooty tern	2	SW	15'	Both molting heavily; one advanced immature	
	1015	Pterodroma	1	N	low		
	1032	Hamcomb's	2	NE	Low		
	1034	Bulwer's	1	NE	Low		
	1050	"	1	SW	"		
	1103	Wedgetail	1	S	Low	dark phase	
	1108	Bulwer's	1	SSW	LOW		
	1110	Wedgetail	1	NE	Low	dark phase	
	1115	Wedgetail	1	NE	Low		
	1115	PTerodroma	1	E	Low	Large W-n. P-r	
	1128	Cooks	1	SE	Low		
	1130					watch secured (tied down, tried up. I don't know)	
	1200					start again	
	1206	Cook's	3	ESE	Low		
	1207	Fairy Tern	1	SE	20'		

T. S.	T-B
30	84
Shear-Pet	
T W P B	T W P B
~~28~~ 8 · 7 · 5	~~55~~ 37 · 9 · 5
others	
Terns 1/26	
Golden Plover 1/1	
Flocks	Birds
2	50

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 8 Oct 1964
Pg.# 2



time	species	#	dir.	hgt.	remarks	loc.
1220	Collared type	1	SE	Low	Collar & white rump not clearly visible - wing design clear  almost black / translucent gray	
1232	Cook's	1	ENE	Low		
1240	Sheat-Pet	1	N	Low		
1240	Wedgetail	1	[illegible]	Low	Feeding. Would fly around - much flapping low and then plunging into H_2O and then coming repeated several time. dark phase.	
1332	Bulwer's	1	W	"		
1339	Haecouts St Pet	1	NE	"		
1355	R-T Tropic	1	SSW	~~Low~~ 90'	Black speckles on abdomen, yellow-orange bill.	
1407	Shear-Pet	1	SW	Low		
1428	Cook's	1	SSW	"		
1428	Haecouts St Pet	1	SSW	"		
1442	W-n Petrel	1	SW	Low		
1503	Collar type	1	SW	"	Breast area almost black (~2/5 of body length); tail area underneath (>1/5 body length) very light, sharply differentiated from black area; black eye + bill; underside of wings darker than above.	
1527	Pterodroma sp.	1	SW	"		
1549	Shear-Petrel	1	NNE	Low		
1549	Sooty Shearwater	2	SSE	Low		
1611	"	1	SW	"		
1730	White neck Pet.	1	SSW	Low		
1730					watch stopped - (forgot to wind)	

T.S	T.B.
17	18

Shear-Pet.

T	W	P	B	T	W	P	B
15	1	7	1	16	1	7	1

other
Tropicbird 1/1

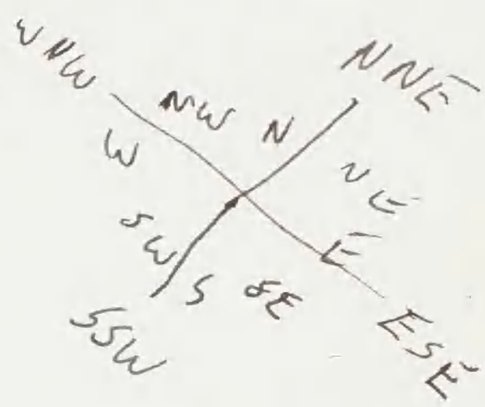
SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-6

DATE 1 Dec. 1964
Pg.# 1

time	species	#	dir.	hgt.	remarks	loc.
0805					commence observation	
0816	White Neck	1	S	low		
0828	Itaconatis	1	W	"		
0850	Pterodroma	1	SSW	"		
0948	Brown Booby	1	SE	Low		
1030	W-n Petrel	1	SE	Low		
	Phae. I. Pet	1	SE	Low		
~~1035~~	~~Wedgetail~~	~~1~~	~~SSW~~	~~Low~~		
1045	Kermadec	1	NNE	Low	Sitting on H2O	
	W-n Petrel	1		low		
1130					suspend watch	
1250					resume	
1427	Fairy Tern	1	ESE	Low		
1625	W-n Petrel	1	NNE	Low.		
1632	Wedgetail	1	NE	low	Light phase	
1705					finis	



SI-MNH-958e
7-28-64

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

ATF-6
DATE 2 Dec 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0800						
	0809	Wh.-Tailed Trop	2	NNE	125'	Start observation.	
	0830	Sooty tern	2	SE	Low		
FF	0855	Sooty tern	6				
		Wedgetail	3			L. Phase	
	0934	Bl.-footed Alb.	1		low	following ship	
F	0945	Sooty tern	53	E			
		Fairy tern	9	"			
		Wedgetail	8	"		L. Phase	
	1006	R-F booby	1	E	50'		
	1040	Wedgetail	1	S	low	L. Phase	
						→ 1130 → 1215 Secured.	
FF	1230	Sooty tern	90 ±15			Sooties & fairy terns were feeding v. actively on a school ~100 yds. long x 10 yds wide. As the ship drew closer the noddies rose off the water, sooties & wedgetails scattered, & fairy terns regrouped apart.	
		Fairy tern	15				
		Common noddy	8				
		Wedgetail	18			Young birds - PWS Light phase	
	1235	Frmn. Booby	1	W	low		
	1315	R-T Tropic	1	N	60'		
	1358	Wh.-T Tropic	2	S	→ 80'	Sitting on water	
~~1400~~		~~"~~	~~1~~	~~N~~	~~100'~~		
	1550	Wedgetail	3	E	low		
	1647	Wedgetail Sh.	2	E	low		
	1740					watch ended	

9
18
113
76

9:40
17
8 89 9 / 601
5:54

SI-MNH-955a
Rev. 4-9-64

ATF-6

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Dec. 1, 64 Total Minutes: _____ Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
11	11		

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

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
9	1	7	-	9	1	7	-								

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		NONE									

IV. Abundance of Terns:

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

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
NONE			

VI. Abundance of Boobys:

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

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
NONE			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
NONE					

S.I-MNH-955a
Rev. 4-9-64

ATF-6

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: ~~8~~ Dec. 2, 1964 Total Minutes:_____ Total Miles_____

1. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
19	225 ~~216~~		

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
8	6	4	-	38	35	-	-								

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	1	2	5	1	4						

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
6	184		

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
-	- NONE		

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
2	1	~~1~~	-	2	1	1	-								

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
NONE			

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	210		1	131	

Gould

D R A F T

PRELIMINARY REPORT ON

ATF TRIP No. 6

OCTOBER - NOVEMBER, 1964

Prepared at the

DIVISION OF BIRDS

SMITHSONIAN INSTITUTION

WASHINGTON 25, D. C.

January 1965

Fred C. Sibley

D R A F T

ATF No. 6

ITINERARY

October 1	1330	Depart Pearl Harbor
October 5	1200	Arrive Wilder Shoal Area
October 7	1200	Depart Wilder Shoal Area
October 9	0900	Arrive Howland Island
October 13	0800	Depart Howland Island
	1300	Arrive Baker Island
October 15	1400	Depart Baker Island
October 16	1200	Arrive Winslow Reef
	2000	Depart Winslow Reef
October 17	1430	Arrive Canton
	1700	Depart Canton
October 18	0900	Arrive McKean
October 22	0700	Depart McKean
	1400	Arrive Gardner
October 23	1600	Depart Gardner
October 24	0900	Arrive Sydney
October 25	1500	Depart Sydney
October 28	0900	Arrive Pago Pago
November 1	1000	Depart Pago Pago
November 3	1730	Arrive Phoenix
November 7	0800	Depart Phoenix
	1400	Arrive Birnie
November 9	0800	Depart Birnie
	1300	Arrive Enderbury
November 12	0830	Depart Enderbury
	1300	Stop at Canton
	1400	Depart Canton
November 15	1100	Arrive Jarvis
November 20	0730	Depart Jarvis
November 21	0930	Arrive Christmas
November 24	0800	Depart Christmas
November 25	0900	Arrive Washington
November 26	1700	Depart Washington
November 27	1200	Arrive Palmyra
November 29	1500	Depart Palmyra
December 3	0900	Arrive Pearl Harbor

D R A F T

INTRODUCTION

The sixth trip to the Equatorial Islands was supported by the USS Lipan (ATF 85) with Lt. Veissmann commanding. Smithsonian personnel were Fred Sibley (Leader), C. Douglas Hackman (Assistant Leader), Robert Long (Botanist), Richard Merrill, Paul Woodward, and Alan Anderson. William Foulkes (Army Pictorial Center), Chief Lee, Chief Tillman, and Capt. Holway (latter three from PMU 6) accompanied the Smithsonian party on part of the trip.

The entire area was much drier than on any previous trip. This didn't effect the bird populations but the vegetation cover was greatly reduced. Thirteen islands were surveyed and a short visit was made to Canton.

Complete surveys were made of all vertebrates present on the islands, photographs were taken, vegetation maps and botanical collections were made and various collections of herps, crustacea, fish, insects and ectoparasites were made to fill in gaps from previous trips. At sea observations were maintained from Honolulu to Howland Island, Sydney to Pago Pago, Pago Pago to Phoenix, and Palmyra to Honolulu. The following was accomplished in addition to the items noted above: 952 blood samples; 55,126 birds banded; 4,332 band returns; 262 birds collected; 28 mammals collected.

Only the birds and mammals are reported on in this preliminary report.

BIRDS

It doesn't seem worthwhile to report the details of numbers of birds and numbers of nests found on this trip. These findings are in line with previous statements about the breeding cycles and population sizes. These details are available in progress reports and field notes and will be

presented in a later report summarizing data from all trips.

The few species discussed below are either uncommon visitors to the area or land birds.

American Widgeon - Anas americana - Two fēmales collected on Palmyra.

European Widgeon - Anas penelope - One female collected with the two American widgeons.

Shoveler - Spatula clypeata - One female was collected and another male and female were seen on Palmyra.

Four species of duck have been recorded from Palmyra and the shoveler has been recorded on all three visits. The Island Manager on Washington reports that large numbers of ducks arrive there in the fall but we found only one duck present in November.

Sanderling - Crocethia alba - Two were collected on Christmas Island and the species was recorded on Birnie (1), Enderbury (2), Jarvis (1), Washington (2), and Palmyra (5).

Sharp-tailed Sandpiper - Erolia acuminata - This species was collected on McKean (1 of 5), Gardner (4 of 5), Sydney (1 of 1), and was identified on Palmyra (3).

These records and the similar ones from last year establish these two species of sandpipers as regular, but uncommon visitors to our area.

Laughing Gull - Larus atricilla - One adult was collected and a sub-adult bird was observed on Palmyra. The large influx of Laughing Gulls into the Central Pacific last year was exceptional (this species was not previously recorded) and the birds seen this trip probably belong to that group rather than to a new invasion by this species.

Chicken - It is domesticated on Christmas and Washington Islands and wild on Palmyra (1) and Gardner. A small but flourishing population, 20 adults and 10 chicks seen, is concentrated in the NW corner of Gardner Island.

Line Island Parrot - Psittacula kuhlii - this is a common and conspicuous bird on Washington Island. Populations established in the past on Christmas, Fanning and Palmyra are now extinct.

Line Island Warbler - Conopoderas aequinoctialis - this species is rare on Christmas and common on Washington, but is far less conspicuous than in June.

MAMMALS

No mammals exist on three (Howland, McKean, and Enderbury) of the islands visited. Only one mammal is present on Baker, Phoenix, Birnie, and Palmyra. The other six islands have one or more formerly domesticated species in addition to the rats and mice.

Rabbit - Oryctotgus cuniculus - this species is abundant on Phoenix but has not noticably reduced the vegetation despite the long dry spell.

Pig - Sus scrofa - this was a common domestic animal on Gardner in 1963 and it is possible that a few were left and still survive.

Polynesian Rat - Rattus exulans - on Sydney and the small islands of Christmas Island this is a common species. On Birnie Island it is super abundant and may be eliminating the vegetation.

Rattus sp? - some species other than R. exulans is common on Washington, Palmyra and Christmas.

House Mouse - Mus musculus - it is abundant on Baker Island. On Jarvis Island it is common having increased with the reduction in the number of cats.

Cetacea - a porpoise skeleton and a small whale skull were collected on Sydney and a partial porpoise skeleton was collected on Jarvis.

Dog - Canis familiaris - kept as pets on Christmas and Washington. A few left by former inhabitants are still alive on Gardner, and Sydney. On Gardner at least 10 dead dogs were found in various stages of decay indicating that they may all die off in time.

Cat - Felis domesticus - present in small numbers on Gardner, Sydney, Christmas and Washington. On Jarvis Island only 10-20 cats still exist of the 300 plus present in March 1964.

REPOPULATION OF BAKER ISLAND

During the first four visits to Baker Island (March, July, October, 1963 and February 1964) only Noddy Terns nested on the island. The only other species present were wintering shorebirds and a few individual boobies and frigatebirds which roosted on the six telephone poles.

In July 1964, when theccat population had been reduced from 30 plus to 4, Blue-faced Boobies (200 birds and 10 nests), Red-tailed Tropicbirds (10 birds and 1 nest), and Gray-backed Terns (3 nests) were nesting in addition to the Noddy Terns in the small lagoon.

June-July is the peak nesting time for most species in the Phoenix Islands area and in October the number of nests is considerably below the July total. On Baker Island the reverse was true. In October 1964 both Blue-faced Boobies (400 birds and 25 nests) and Red-tailed Tropicbirds (5 nests) were commoner than in July. For the first time, Brown Boobies were roosting on the ground, a flock of Fairy Terns stopped on the island, and several Noddy Terns nested outside the small lagoon.

Because of previous extensive banding of Blue-faced Boobies it is possible to trace the origin of this new population. The table below gives a breakdown of the birds captured on Baker Island in October 1964. Over 80 percent of the birds present were captured and approximately equal proportions of nesting and roosting birds were taken.

	Adults on Nests		Adults and Subadults Roosting	
	No.	Percent	No.	Percent
Banded	14	38	196	64
Banded on Baker Is.	15	41	12	4
Banded on Howland Is.	6	16	79	26
Banded on Enderbury Is.	2	5	15	5
Banded on Birnie Is.	--	--	2	2
Banded on Jarvis Is.	--	--	1	
Banded on Phoenix Is.	--	--	2	
Total	37		306	

If we examine the figures for nesting birds first we find that over 40 percent of the birds nesting now were present on Baker in July. This is not surprising since birds on eggs in July would have nestlings now. What is surprising is that only 8 of the 37 nesting birds had been banded prior to July 1964. Using data from Howland Island, 40 miles north, we find that less than 20 percent of nesting birds and more than 80 percent of birds in roosting clubs are unbanded. The nesting birds on Baker must have come from this floating population of roosting birds rather than from established nesting populations on other islands.

The data on the roosting birds indicates that most of the birds on Baker previously roosted on Howland Island and a smaller number roosted on Enderbury. The very small number of birds coming from Birnie and Phoenix is hard to explain in view of their closeness to Enderbury and the large interchange between these three islands. Differences in population size

and number of birds banded do not explain the difference in the number of birds going to Baker Island. The absence of birds from McKean, 150 miles south, is also hard to explain. If birds from McKean, Birnie, and Phoenix rarely go north of the equator why do Enderbury birds do so?

Of the 147 birds banded on Baker in July 1964, 43 were recaptured. Of this number, 63 percent were on Baker and most of the remaining 37 percent were on Howland. This further emphasizes the close relationship between Howland and Baker and also the transitory nature of birds in clubs.

In summary, the number of breeding birds, both species and individuals, on Baker Island continues to increase. Using the Blue-faced Booby population as an example, the nesting birds come from large roosting clubs and were formerly unattached to any island. The majority were using the area around Howland and Baker as a feeding area prior to the elimination of cats on Baker and frequently roosted on Howland.

ATF No. 6

DRAFT 7.

Table 1
BLOOD SAMPLES ATF No. 6
Oct-Nov. 1964

	Wedge-tailed Shearwater	Audubon's Shearwater	Christmas Island Shearwater	Phoenix Island Petrel	Red-footed Booby	Blue-faced Booby	Lesser Frigatebird	Greater Frigatebird	Sooty Tern	Common Noddy	Rabbit	Polynesian Rat	Cat	TOTAL	
Howland						10	50		91					151	
Baker						20				42				62	
McKean		10			10	10	37	11	50	10				138	
Phoenix	10				10	10	40		40		40			150	
Birnie						30				20		5		55	
Enderbury					20	20	20	20	20					100	
Jarvis					20	20	20	20					23	103	
Christmas			35	35	20			10						100	
Palmyra					93									93	
Total	10	10	35	35	173	120	167	61	201	72	40	5	23	952	

Table 2
Birds Collected ATF No. 6
Oct-Nov. 1964

	Howland	Baker	Phoenix	McKean	Gardner	Sydney	Birnie	Enderbury	Jarvis	Christmas	Washington	Palmyra	Samoa	At Sea	TOTAL	
Wedge-tailed Shearwater			10	1											11	
Christmas Is. Shearwater			4												4	
Audubon's Shearwater				5											5	
Phoenix Island Petrel										8					8	
Bulwer's Petrel				1											1	
White-throated Storm Petrel			2	1						3					6	
Red-tailed Tropicbird	1								3						4	
White-tailed Tropicbird					1						1				2	
Blue-faced Booby	1	1	5						2						9	
Red-footed Booby			1	1				2	5						9	
Great Frigatebird			4		1		1	2	5						13	
Lesser Frigatebird	10		4						1						15	
Golden Plover	3		2	2	2	2	2		1			1		1	16	
Ruddy Turnstone		1	1		1										3	
Sanderling										2					2	
Wandering Tattler	2	2		2	2	2	2			1		1	1		15	
Sharp-tailed Sandpiper				1	4	1									6	
Bristle-thighed Curlew				1			1								2	
Sooty Tern	13		13	13			1	2	5						47	
Gray-backed Tern			5	10		1									16	
Common Noddy	1	3		1	1	1	3								10	
Hawaiian Noddy					1		12			5					18	
Fairy Tern			1	5	1	1	1			5					14	
Blue-gray Noddy			1	5			1			5					12	
Line Is. Warbler										1					1	
American Widgeon												2			2	
European Widgeon												1			1	
Shoveler												1			1	
Laughing Gull												1			1	
Barn Owl													1		1	

Continued on page 9.

Table 2 continued
Birds Collected ATF No. 6
Oct-Nov. 1964

	Howland	Baker	Phoenix	McKean	Gardner	Sydney	Birnie	Enderbury	Jarvis	Christmas	Washington	Palymra	Samoa	At Sea	TOTALS
New Zealand Cuckoo													1		1
Yellow-wattled Honeyeater													3		3
Samoan Starling													3		3
TOTAL	31	7	54	49	14	8	24	6	22	30	1	8	7	1	262

Table 3
Birds Banded

	Howland	Baker	McKean	Sydney	Phoenix	Birnie	Enderbury	Jarvis	Christmas	Washington	Palmyra	[illegible]	TOTALS
Wedge-tailed Shearwater			103		844				17				964
Christmas Is. Shearwater			1		494				852				1347
Audubon's Shearwater			500		246								746
Phoenix Island Petrel					4				908				912
Bulwer's Petrel			2		13								15
White-throated Storm Petrel			6		15				39				60
Red-tailed Tropicbird	40	10	19		13	4	56	266	368				776
Blue-faced Booby	723	204	352		583	339	628	2945	20				5694
Brown Booby	9	1	1		8	49	20	59	1		143		291
Red-footed Booby	38		95		33		329	91	82		1400		2068
Great Frigatebird	83		348				500		17				948
Lesser Frigatebird	2000		3000		2181		1011	100					8292
Golden Plover					4								4
Ruddy Turnstone				1	4								6*
Wandering Tattler				1	1								2
Bristle-thighed Curlew					11		1				2		14
Sooty Tern	10100		9042		11700		51						30893
Gray-backed Tern			50	2	42		6		23				123
Noddy Tern	5	60	53	18	400	368	4		5				913
Hawaiian Noddy Tern	1		3			12	20		13				49
Blue-gray Noddy			28		170	1			11				210
Fairy Tern			170		247	106	1		104	42	15		685
Crested Tern									25				25
TOTALS	12999	275	13773	22	17013	879	2716	3361	2485	42	1560		55126

*1 banded at sea

Gould

PROGRESS REPORT NO. 1 ---- ATF TRIP # 6

During the period October 1, 1964 to October 16, 1964.vists were made to Howland and Baker Islands and 8 days of at sea records were obtained during the trip from Pearl Harbor to Howland Island. The islands are discusse d briefly below and on the biweekly report sheets. No analyses of the at sea records has been possible but on this trip thousands of migrating Sooty Shearwaters were seen and a number of birds tentively identified as Collared Petrels were recorded for the first time in this area.

Howland Island

The field party , 8 people, landed here on the morning of the 9th and left early on the 13th. During this period all personnel were instructed in the various phases of the work to be accomplished during the remainder of the trip. 13,101,birds were banded, 35 were collected and 856 bande returns were obtained. Collections were made of shinks, gekkos and land crabs. Approximately 50 plant collections were made and numerous photographs were made of the island and the permant quadrats (plant study). An activity study was maintained on bird movement for one day and numerous notes were taken on nest distribution,and construction. No mammals were found.

Baker Island

A landing was made here on the afternoon of the 13th and the party remained until noon on the 15th. Bird numbers have continued to increase and the number of nesting Blue-faced Boobies and Red-tailed Tropicbirds was more than double the number found in July. This is even more important when it is realized that July is the peak nesting month for these species with a father sharp decline from that period. In addition Great Frigatebirds and Brown Boobies were found roosting on the groud for the first time since the Smithsonian prties started visiting the islands (March, 1963). No cats were seen and it can be assumed that they were eliminated in July, 1964. 288 birds were banded with 142 returns and 8 birds and 9 mice were collected. Collections were made of skinks, gekkos, land crabs and fish. 53 plant collections were made with the usual photographs of study plots. An activity study was maintained for one day. Nest distribution was plotted and several berlese samples were taken from the nesting areas. Information obtained on Hermit Crab density indicates that the species is seven to ten times as abundant on Baker Island as on Howland.

Ship Cooperation

To date the ship been very helpful and has done an excellant job of landing personnel and equipment on the islands and maintaining them there. The navigation lights now being used require daily boat runs to bring in new batteries and take out old ones to be charged but the lights are far superior to anything else we have tried. Except for the daily battery change they are very little trouble and provide a reference point for the field party at night as well as for the ship. Accomodations, food and laundry service are all in pleasant contrast to previous trips.

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: HOWLAND ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: October (5) PERIOD: ~~1-15~~ 9th - 13th ~~16-end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Returns (15) Age of Young 0-10	11-20	21+	(16) Date	Birds Collected (17) Young Banded	(18) Others Banded
Red-tailed Tropicbird		75	B	6	A		27	A	11	1			24	16
Blue-faced Booby		3000	"	136	"		248	"	814	1			172	532
Brown Booby		100	"	4	"		-	-	6	-			-	9
Red-footed Booby		70	"	8	"		17	A	24	-			15	23
Great Frigatebird		200	"	2	"		83	"	-	-			83	-
Lesser Frigatebird		18,000	C	100	B		8,000	C	-	10			2000	-
Golden Plover		108	B	-	-		-	-	-	2			-	-
Ruddy Turnstone		71	"	-	-		-	-	-	-			-	1 **
Wandering Tattler		17	"	-	-		-	-	-	2			-	-
Bristle-thighed Curlew		13	A	-	-		-	-	-	-			-	-
Sooty Tern		100,000	C	8,500	C		36,000	C	1	18			2000	8200
Gray-backed Tern		50	B	4	A		-	-	-	-			-	-
Noddy Tern		12	A	-	-		-	-	-	1			-	5
Hawaiian Noddy Tern		1	A	-	-		-	-	-	-			-	1
**(Caught at sea - banded and released on Howland)														
TOTAL		14 species		8 breeding					856	35			4294	8807
														13,101

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

(1) Total Survey Unit: BAKER ISLAND (2) Observer(s): ATF Party

(3) YEAR: 1964 (4) MONTH: October (5) PERIOD: ~~1-15~~ ~~16-end of month~~ 13th - 15th

(6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Returns (15) Age of Young 0-10	11-20	21+	Birds Collected (16) Date	(17) Young Banded	(18) Others Banded
Red-tailed Tropicbird		15	B	1	A		4	A	-	-			4	6
Blue-faced Booby		400	"	18	"		7	"	139	1			7	210
Brown Booby		16	"	-	-		-	-	1	-			-	1
Great Frigatebird ***		~~40~~		-	-		-	-	-	-			-	-
Lesser Frigatebird ***														
Golden Plover		37	B	-	-		-	-	-	1			-	-
Ruddy Turnstone		121	"	-	-		-	-	-	1			-	-
Wandering Tattler		13	B	-	-		-	-	-	2			-	-
Bristle-thighed Curlew		10	B	-	-		-	-	-	-			-	-
Sooty Tern ***		500	C	-	-		-	-	-	-			-	-
Gray-backed Tern ***		10	B	-	-		-	-	-	-			-	-
Noddy Tern		300	"	60	B		61	A	2	3			58	2
Fairy Tern		10	A	-	-		-	-	-	-			-	-
TOTAL		13 species			3 nesting				142	8			69	219

*** -(Seen offshore only - never found roosting on land)

288

Progress Report #12 SIC 6

MCKEAN ISLAND

The party landed at 0900 on the 18th and departed at 0700 on the 22nd. A survey was made of the bird life (22 species, 14 breeding) and 14,624 were banded and 45 collected. 495 band returns were obtained from 9 species. No mammals were present. A small number of geckos and hermit crabs were collected. No skinks exist on the island. Over 100 plant collections were made and numerous photographs were taken to compare with those taken in July. An activity study was carried on for one day with observations being made every hour. Nest descriptions were made for all species and a map wasmade of the distribution of nesting species on the island. The study of color phases in the Red-footed Booby was continued with full notes taken on over 40 individuals.

140 blood samples were collected. Although not mentioned in the first progress report 151 samples were collected from Howland and 62 from Baker.

CANTON ISLAND

The ship stopped here for two hours to transfer an injured sailor to a flight back to Honolulu. During this time a brief survey was made of bird and plant life around the town and a number of plant specimens were collected.

GARDNER ISLAND

A brief survey was made of the island from 1500 the 22nd to 1600 the 24th. Sixteen bird species were recorded for the island (6 breeding) and 14 individuals were collected. Lesser Frigatebirds were found nesting in trees on this island although they have always been considered to be strictly ground nesters. Both dogs and cats were seen on the island ~~&&%%%%%%~~ but no mice or rats were found and there was no evidence to indicate their presence. Small collections of geckos, skinks, and hermit crabs were made and one collection of fish was made in the main lagoon. Vegetation map and plant collection as on Sydney.

SYDNEY ISLAND

The first heavy surf of the trip was encountered here. Party stayed on the island from 0900 the 24th to 1500 the 25th. Activities were hindered on the 25th when everyone had to spend several hours controlling a brush fire started accidently by visiting sailors from the ship. Twelve species of birds were recorded, 3 nesting, Eight individuals were collected and 22 were banded. A total of less than 700 birds were present on the island. Several cats and dogs were seen although none were close enough to collect. One whale skull and a porpoise skeleton were found on the east shore and brought back to camp. Rats were numerous (Rattus exulans) and several were collected. Small collections of skinks, geckos, and hermit crabs were made. Over 100 plant collections were made and a vegetation map was roughed out for the island.

Attached Personnel

The photographer has taken some 2600 feet of film covering most of the work done by ATF parties and has integrated very well with the field work.

The entomologist, although here on a "not to interfere basis", has produced extra problems as would any additional person. There is no way for a person to come on these islands without interfering and without creating extra problems. Since the entomologist are dublicating work already done by the ATF parties and since their presence does hinder other operations I suggest that only S.I or S.I. related personnel (i.e photographer) be allowed on future trips.

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

(1) Total Survey Unit: MCKEAN ISLAND (2) Observer(s): ATF Party

(3) YEAR: 1964 (4) MONTH: October (5) PERIOD: ~~1-15~~ ~~16-end of month~~ 18th - 22nd

(6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Returns (15) Age of Young 0-10	11-20	21+	(16) Date	Birds Collected (17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		300	B	-	-		1	A	37	1			-	102
Christmas Island Shearwater		1	A	-	-		-	-	-	-			-	1
Audubon's Shearwater		3000	B	?	-		present		58	5			12	388
Bulwer's Petrel		50	"	-	-		-	-	-	1			-	2
White-throated Storm Petrel		100	"	-	-		-	-	-	1			-	6
Red-tailed Tropicbird		60	"	6	B		21	B	1	-			II	7
Blue-faced Booby		1500	"	34	A		248	A	216	-			212	127
Brown Booby		30	"	6	"		II	"	-	-			1	-
Red-footed Booby		250	"	17	"		45	"	34	1			34	60
Great Frigatebird		1000	"	2	"		351	"	-	-			348	-
Lesser Frigatebird		45000	C	300	B		15000	C	-	-			3000	-
Golden Plover		21	B	-	-		-	-	-	2			-	-
Ruddy Turnstone		119	"	-	-		-	-	-	-			-	-
Wandering Tattler		17	"	-	-		-	-	-	2			-	-
Bristle-thighed Curlew		86	"	-	-		-	-	-	1			-	-

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: MCKEAN ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: October (5) PERIOD: 1-15 ~~16-end of month~~ 18th - 22nd

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Returns (15) Age of Young 0-10	11-20	21+	(16) Date	Birds Collected (17) Young Banded	(18) Others Banded
Sharp-tailed Sandpiper		5	A	-	-		-	-	-	1			-	-
Sooty Tern		200000	C	500	B		25000	C	130	9			4000	6000
Gray-backed Tern		10000	"	4000	C		100	B	-	10			-	50
Noddy Tern		2000	"	200	C		-	-	1	1			-	53
Hawaiian Noddy Tern		100	B	5	A		-	-	2	-			-	3
Blue-gray Noddy		1000	C	100	C		100	C	-	5			4	24
Fairy Tern		600	B	100	"		100	"	16	5			-	169
TOTAL		22 species		14 breeding					405	45			7622	7002
													14624	

SI-NMH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: GARDNER ISLAND (2) Observer(s): ATF PARTY

3) YEAR: 1964 (4) MONTH: October (5) PERIOD: 22- 23rd

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Birds collected (15) Ages of Young	(16) Date	(17) Young Banded	(18) Others Banded
Red-tailed Tropicbird		8	A	-	-		-	-	--			
White-tailed Tropicbird		8	A	-	-		-	-	1			
Brown Booby		8	A	-	-		-	-	--			
Red-footed Booby		350	B	125	B		lumped with Nests		--			
Greater Frigatebird		800	B	200	B		"	"	1			
Lesser Frigatebird		1000	B	350	B		"	"				
Golden Plover		80	B	-	-		-	-	2			
Ruddy Turnstone		80	B	-	-		-	-	1			
Wandering Tattler		80	B	-	-		-	-	2			
Bristle-thighed Curlew		9	B	-	-		-	-	--			
Sharp-tailed Sandpiper		5	A	-	-		-	-	4			
Sooty Tern		15	B	-	-		-	-	--			
Noddy Tern		300	B	-	-		-	-	1			
Hawaiian Noddy Tern		700	B	250	B		lumped with nests		1			
Fairy Tern		100	B	???	-		-	-	1			
Chicken		1	B	-	-		6	B	--			
Total		16 species					6 nesting					

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

(1) Total Survey Unit: SYDNEY ISLAND (2) Observer(s): ATF PARTY

(3) YEAR: 1964 (4) MONTH: OCTOBER (5) PERIOD: 24th-25th

(6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Birds collected (15) No. of Young	(16) Date	(17) Young Banded	(18) Others Banded
* White-tailed Tropicbird		4	A	-	-		-	-	-		-	-
* Blue-faced Booby		2	A	-	-		-	-	-		-	-
* Lesser Frigatebird		5	A	-	-		-	-	-		-	-
Golden Plover		227	B	-	-		-	-	2		-	-
Ruddy Turnstone		154	B	-	-		-	-	-		-	1
Wandering Tattler		52	B	-	-		-	-	2		-	1
Sharp-tailed Sandpiper		1	A	-	-		-	-	1		-	-
Bristle-thighed Curlew		6	A	-	-		-	-	-		-	-
* Sooty Tern		5	A	-	-		-	-	-		-	-
Gray-backed Tern		100	B	1	A		3	A	1		2	-
Noddy Tern		150	B	5	A		18	A	1		18	-
Fairy Tern		23	B	-	-		carrying food		1		-	-
* Flying over												
		12 species		3 nesting			8 collected				20	2
												22

Lovell Ely Humphrey Thompson Sibley Amerson Gould Wirtz

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON 25. D. C.

November 12, 1964

Progress Report # 3 ----- ATF # 6

From November 1 to November 12 three islands, Phoenix, Birnie and Enderbury, were visited in the Phoenix group. An at sea watch was maintained from Pago Pago to Phoenix Island although it wasn't possibl_e to collect any specimens.

Phoenix Island

The party landed here at 1700 on the 3rd and departed at 0800 on the 7th. The usual studies were continued on birds, mammals and plants. 16,926 birds were banded with 1,038 returns recorded. 150 blood samples were taken (40 from rabbits). A complete absence of moon lit nights made this our most productive visit to Phoenix.

Birnie Island

Landed at 1500 on the 7th and departed at 0800 on the 9th. Usual studies with 884 birds being banded and 507 returns being recorded. 65 blood samples were taken (5 from Rattus exulans). The blood sampling of rats proved difficult at first but it was finally possible to pool three rats to produce approximately 3cc of blood. The 25 gauge needles worked very well but clog rapidly and one therefore goes through a minimum of three per sample. With a sufficient supply of needles and our present experience it should be possible to take 7-8 pooled samples an hour including catching of rats. On this island it became necessary to shift to a midnight to dawn working schedule in order avoid the moon.

Enderbury Island

Landed at 1300 on the 9th and departed at o800 on the 12th. 2708 birds banded with 678 returns. 100 blood samples taken. No mammals observed on the island. Party starting to feel the effects of nine straight days and nights of work including setting up and breaking three camps. Three day break before landing on Jarvis should provide time to catch up on records, specimens and packing.

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: BIRNIE ISLAND (2) Observer(s): ATF party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: ~~1-15~~ 7th - 9th ~~16-end of month~~

6) Species	(7) ~~Date~~	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) ~~Date~~	(13) No. of Young	(14) Rel. Class	Returns (15) ~~Age of Young 0-10 11-20 21+~~		(16) ~~Date~~	Birds Collected (17) Young Banded	(18) Others Banded
Christmas Island Shearwater¾		1	A	-	-		-	-	-	-		-	-
Red-tailed Tropicbird		12	B	-	-		5	A	-	-		5	-
Blue-faced Booby		900	B	28	A		75	A	490	-		64	272
Brown Booby		100	B	4	A		10	A	7	-		8	39
Great Frigatebird ***		1	A	-	-		-	-	-	1		-	-
Lesser Frigatebird***		10	B	-	-		-	-	-	-		-	-
Golden Plover		6	B	-	-		-	-	-	2		-	-
Ruddy Turnstone		8	B	-	-		-	-	-	-		-	-
Wandering Tattler		8	B	-	-		-	-	-	2		-	-
Bristle-thighed Curlew		1	A	-	-		-	-	-	1*		-	-
Sanderling		1	A	-	-		-	-	-	0		-	-
Sooty Tern		300	B	-	-		-	-	-	1		0	-
Gray-backed Tern		100	B	-	-		-	-	-	-		-	-

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: BIRNIE ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 1-15 ~~16-end of month~~ 7th - 9th

6) Species	(7) ~~Date~~	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) ~~Date~~	(13) No. of Young	(14) Rel. Class	Birds Returns Collected (15) Age of Young 6-10	11-20	21+	(16) ~~Date~~	(17) Young Banded	(18) Others Banded
Crested Tern ***		1	A	-	-		-	-	-	-			-	-
Hawaiian Noddy Tern		2000	C	-	-		-	-	-	12			-	22
Noddy Tern		3000	C	5	A		11	A	2	3			11	357
Fairy Tern		500	B	30	B		-	-	8	1			-	106
* - Injured wing														
*** - never seen roosting on the island														
TOTAL		17 species				5 nesting			507	23			88	796
														884

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: Phoenix Island (2) Observer(s): ATFParty

3) YEAR: 1964 (4) MONTH: November (5) 3rd - 7th

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Returns (15) Age of Young 0-10	11-20	21+	(16) Date	Birds Collected (17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		5000	C	-	-		-	-	81	10			-	844
Christmas Island Shearwater		3000	C	------Present------					57	4			-	495
Audubon's Shearwater		4000	C	------Present------					22	-			-	246
Phoenix Island Petrel		25	B	-	-		1	B	-	-			1	3
Bulwer's Petrel		50	B	3 found			-	-	-	-			-	13
White-throated Storm Petrel		100	B	-	-		-	-	-	2			-	15
Red-tailed Tropicbird		50	B	-	-		12	A	-	-			12	-
Blue-faced Booby		1500	B	25	A		121	A	788	5			60	482
Brown Booby		50	B	-	-		1	A	6	-			-	8
Red-footed Booby		150	B	1	A		18	A	11	1			10	23
Great Frigatebird		500	B	-	-		213	A	-	4			213	-
Lesser Frigatebird		20000	C	-	-		8000	C	-	4			2181	-
Golden Plover		138	B	-	-		-	-	-	2			-	4

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: PHOENIX ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: ~~1-15~~ 3rd - 7th ~~16-end of month~~

6) Species	(7) ~~Date~~	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) ~~Date~~	(13) No. of Young	(14) Rel. Class	Birds Returns (15) ~~Age of Young 0-10 11-20 21+~~	Birds Collected (16) ~~Date~~	(17) Young Banded	(18) Others Banded
Ruddy Turnstone		121	B	-	-		-	-	- 1		-	4
Wandering Tattler		3	B	-	-		-	-	- -		-	1
Bristle-thighed Curlew		52	B	-	-		-	-	- -		-	11
Sooty Tern		100000	C	-	-		30000	C	33 13		-	11500
Gray-backed Tern		1000	C	-	-		100	B	- 5		-	42
Noddy Tern		5000	C	-	-		100	B	10 -		-	400
Blue-gray Noddy		2000	C	----present ----------					4 1		-	170
Fairy Tern		1500	B	----Present----------					26 1		-	188
TOTAL		21 species			15 nesting				1038 53		2477	14,449
											16,926	

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: ENDERBURY ISLAND (2) Observer(s): ATF PARTY

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 1-15 ~~16-end of month~~ 9th - 12th

6) Species	(7) [redacted]	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) [redacted]	(13) No. of Young	(14) Rel. Class	Birds Returns (15) Age of Young [redacted]		(16) [redacted]	(17) Young Banded	(18) Others Banded
Christmas Island Shearwater		1	A	-	-		-	-	-	-		-	-
Audubon's Shearwater		1	A	-	-		-	-	-	-		-	-
Red-tailed Tropicbird		200	B	-	-		80	B	1	-		47	9
Blue-faced Booby		2000	B	63	A		248	A	599	-		187	436
Brown Booby		100	B	11	A		14	A	10	-		9	10
Red-footed Booby		800	B	34	A		258	A	68	2		229	98
Great Frigatebird		3000	B	19	A		1115	A	-	2		500	-
Lesser Frigatebird		6000	B	20	B		1800	B	-	-		1011	89
Golden Plover		200	B	-	-		-	-	-	-		-	-
Ruddy Turnstone		350	B	-	-		-	-	-	-		-	-
Wandering Tattler		40	B	-	-		-	-	-	-		-	-
Bristle-thighed Curlew		40	B	-	-		-	-	-	-		-	1
Sanderling		2	A	-	-		-	-	-	-		-	-

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: ENDERBURY ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 9th - 12th

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Bids Collected Returns Age of Young 1-10	11-20	21+	(16) Date	(17) Young Banded	(18) Others Banded
Sooty Tern		10000	C	1	A		50	B	-	2			-	51
Gray-backed Tern		1000	B	20	B		1	A	-	-			1	5
Noddy Tern		150	B	15	B		8	B	-	-			4	-
Hawaiian Noddy Tern		700	B	16	A		4	A	-	-			4	16
Blue-gray Noddy		9	A	-	-		-	-	-	-			-	-
Fairy Tern		9	A	-	-		-	-	-	-			-	1
TOTAL		18 species					10 breeding		678	6			1992	716
													2708	

Humphrey
Ely
Sibley
Gould
Amerson
Thompson
Gould

Last Progress Report from ATF sick 6

Summary

The scientifi party this trip consisted of five pro ject personnel from Washington,D.C., one project botonist (Mr. Long) from Honolulu, Bill Foulkes from the Army Pictorial Center and one to 2 people from Perventive Medicine Unit 6 in Honolulu.

In 63 days away from Pearl Harbour (34 ashore), surveys were made on 12 islands in the Line and Phoenix groups. 55,738 birds were banded with 4388 returns being recorded, 254 birds were collected and 953 blood samples were taken. In addition fish, mammals, herps, insects and land crabs were collected from various islands. Bird watches were maintained during 15 of the days at sea.

Mr. Long carried out vegetation mapping projects and general botanical collecting on all islands, Other S. I. party members assisted with the botanical work on Gardner and Sydney.

Mr. Foulkes took motion and still pictures of all phases of work during the day. It was impossible as well as impractical to photograph after dark and these phases of the work were"faked" during daylight hours.

Captain Holway and Chief Tillman accompanied the S.I. party during the last half of the trip and First Class Corpsmen Lee accompanied the party during the first month of the trip. This group from PMU 6 collected insects on all islands and obtained one species of mosquitoe on Christmas, Washington and Palmyra.

JARVIS ISLAND

The party landed here on the 15th and departed on the 20th. Cats are still present, although fewer than in March, and mice (Mus musculus) are common. 103 blood samples were taken (23 from cats), 3261 birds were banded and 22 were collected. A full moon made the catching of birds for banding and blood sampling very difficult.

CHRISTMAS ISLAND

The party landed here on the 21st and departed on the 24th. The island manager, Mr. Dudly Cook, was very courteous and cooperative despite the ships rather typical behavior. Mr. Cook provided accomodations and transportation at a very reasonable rate and was always willing to assist us with any problems.

Mr. Hackman, Anderson, Merrill and Foulkes spent three nights on Motu Upua, Cook Island, and Motu Tabu coming to the base camp at London each day to resupply before going to the next island.

Mr. Sibley and Woodward established a rough camp at the airport, 15 miles from London, and worked the area south of there by bicycle. Twenty-six islands in Manula Lagoon and Isles Lagoon were visited requiring 4 miles of swimming and 40 miles of biking.

Captain Holway and Chief Tillman, in addition to goingsome 200 miles in the landrover looking for mosquitoes, made daily runs to the airport area to resupply that the group there.
Mr. Long did botanical work in the area of the London camp.

WASHINGTON ISLAND

The party got off to a bad start here when the ship refused to give passage to the manager of Fanning Island Plantations (this includes Washington Island). The ship made a real hash of saying no finally ending with the captain refusing to talk to Mr. Palmer. This is not likely to help our relations and it is very possible that we will be refused permission to land on future visits. Mr. Fraser, Washington Island Manager, was as kind as ever and allowed Mr. Long and Captain Holway to stay ashore with as his guest. The rest of the party came ashore for the day on the 25th and 26th. The usual surveys were carried out and banding as usual was impossible.

Palmyra Island

Despite an exasperating and sometimes dangerous series of failures on the ships part the party landed on the 27th and departed on the 29th without lose of life or injury to any members of the party.

1494 birds were banded, 7 were collected (including two species new to the island) and 93 blood samples were taken. Because of the short time ashore and the size of the island it proved impractical to make a survey of the entire area.

The ship's crew was very cooperative right to the end of the cruise. This spirit of cooperation was not shared by Captain Viessmann who accidently or intentionally made every aspect of life aboard and ashore more trying than is normal on an ATF cruise. The finalboat runs on Palmyra were considered so unsafe by the crew that none of them would come ashore for liberty and yet the captain continued to run unsafe boats in with unreliable motors. It is no exaggeration to say that had one of these boats or motors given out the entire party in the boat would have been swept out to sea and once at sea their chances of being spotted by a searching ship would have been very small.

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: JARVIS ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 15th - 20th

6) Species	[illegible]	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	[illegible]	(13) No. of Young	(14) Rel. Class	Returns Birds Collected [illegible]	[illegible]	(17) Young Banded	(18) Others Banded
Christmas Island Shearwater		1	A	-	-		-	-	- -		-	-
Red-tailed Tropicbird		450	B	30	B		180	B	- 3		165	94 91
Blue-faced Booby		9,000	B	130	A		231	A	593 2		183	2664
Brown Booby		300	B	1	A		9	A	17 -		7	51
Red-footed Booby		1000	B	66	A		86	A	17 5		61	36
Great Frigatebird		1000	B	-	-		348	A	- 5		-	-
Lesser Frigatebird		1200	B	6	A		468	A	- 1		100	*
Golden Plover		90	B	-	-		-	-	- 1		-	-
Ruddy Turnstone		2	A	-	-		-	-	- -		-	-
Wandering Tattler		5	A	-	-		-	-	- -		-	-
Sanderling		1	A	-	-		-	-	- -		-	-
Sooty Tern		150,000	C	10	A		-	-	- 5		-	-
Gray-backed Tern		a few heard at night										

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: JARVIS ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: [redacted] 15th - 20th

6) Species	[redacted]	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	[redacted]	(13) No. of Young	(14) Rel. Class	(15) Returns Birds Collected [redacted]	[redacted]	(17) Young Banded	(18) Others Banded
Noddy Tern		1	A	-	-		-	-	- -		-	-
Fairy Tern		5	A	-	-		-	-	- -		-	-
TOTAL		15 species			7 breeding				627 22		416	2845
											3261	

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: MOTU TABU, CHRISTMAS ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: [redacted] - 23rd - 24th

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	Returns Birds Collected A[redacted] of Young 1-10 11-20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		40	B	-	-		15	B	1 -		-	-
Christmas Island Shearwater		800	B	35	C		15	C	12 -		-	400
Phoenix Island Petrel		1200	B	600	B		20	B	6 -		-	497
White-throated Storm Petrel		50	B	6	C		1	C	- -		-	6
Red-tailed Tropicbird		180	B	34	B		54	B	4 -		50	50
Blue-faced Booby ***		1	A	-	-		-	-	- -		-	-
Red-footed Booby		26	A	-	-		-	-	- -		-	-
Golden Plover		38	B	-	-		-	-	- -		-	-
Wandering Tattler ~~Ruddy-Turnstone~~		13	B	-	-		-	-	- -		-	-
Sooty Tern ***		15	B	-	-		-	-	- -		-	-
Gray-backed Tern ***		2	B	-	-		-	-	- -		-	-
Crested Tern		4	A	-	-		-	-	- -		-	-
Noddy Tern		300	B	75	B		10	C	- -		-	-

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: MOTU TABU, CHRISTMAS ISLAND. (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: ~~1-15~~ ~~16-end of month~~ ~~22nd~~-23rd - 24 24

6) Species	(7) [redacted]	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) [redacted]	(13) No. of Young	(14) Rel. Class	Returns (15) [redacted]	Birds Collected (16) [redacted]	(17) Young Banded	(18) Others Banded
Hawaiian Noddy Tern		800	B	-	-		-	-	- -		-	-
Blue-gray Noddy		500	B	50	C		15	C	- -		-	-
Fairy Tern		150	B	30	C		25	C	- -		-	-
TOTAL		16 species			8 breeding				23 -		50	953
											1003	

*** Bird seen flying over - not seen roosting on island

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: COOK ISLAND, CHRISTMAS ISLAND (2) Observer(s): ATF PARTY

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 22nd-23rd

6) Species	(7) Code	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12)	(13) No. of Young	(14) Rel. Class	Birds Returns Collected (15) Age of Young		(16)	(17) Young Banded	(18) Others Banded
Christmas Island Shearwater		40	B	10	B		8	B	1	-		-	-
Pheonix Island Petrel		20	B	-	-		-	-	1	-		-	-
Red-tailed Tropicbird		230	B	19	B		62	A	1	-		56	42
Blue-faced Booby		2	A	-	-		-	-	-	-		-	-
Red-footed Booby		30	A	-	-		-	-	-	-		-	-
Great Frigatebird		10	A	-	-		-	-	-	-		-	-
Golden Plover		11	B	-	-		-	-	-	-		-	-
Wandering Tattler		17	B	-	-		-	-	-	1		-	-
Ruddy Turnstone		3	B	-	-		-	-	-	-		-	-
Bristle-thighed Curlew		29	B	-	-		-	-	-	-		-	-
Sanderling		3	A	-	-		-	-	-	2		-	-
Sooty Tern		5000	C	-	-		50	B	-	-		-	-
Gray-backed Tern		2	A	-	-		-	-	-	-		-	-

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: COOK ISLAND, CHRISTMAS ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: ~~1-15 16-end of month~~ 22nd-23rd

6) Species	(7) ~~Code~~	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) ~~Code~~	(13) No. of Young	(14) Rel. Class	Returns Birds Collected (15) Age ~~1-5 6-10 11-20 21+~~		(16) ~~Code~~	(17) Young Banded	(18) Others Banded
Crested Tern		150	B	-	-		-	-	1	-		-	25
Noddy Tern		500	B	50	B		15	B	-	-		-	-
Hawaiian Noddy Tern		1000	B	-	-		-	-	-	5		-	-
Blue-gray Noddy		800	B	100	C		20	C	-	5		-	-
Fairy Tern		1000	B	400	B		100	B	6	5		6	94
TOTAL		18 species			6 breeding				10	18		62	161
												223	

SI-MNH-142-
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: MOTU UPUA, CHRISTMAS ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: ~~1-15~~ 21st - ~~16-end of month~~ 22nd

6) Species	(7) [illegible]	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) [illegible]	(13) No. of Young	(14) Rel. Class	Returns Birds Collected (15) Age of Young 0-10 11-20 21+	(16) [illegible]	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		15	B	5	B		5	B	1 -		-	-
Christmas Island Shearwater		1500	B	600	B		10	B	51 -		-	400
Phoenix Island Petrel		1000	B	500	B		-	-	9 8		-	400
White-throated Storm Petrel		20	B	-	-		-	-	- 3		-	-
Red-tailed Tropicbird		26	B	1	A		8	A	- -		8	4
Brown Booby		2	B	-	-		-	-	- -		-	-
Red-footed Booby		60	A	-	-		-	-	~~1~~ 1 - ~~1~~		-	-
Great Frigatebird		40	A	-	-		-	-	- -		-	-
Golden Plover		25	B	-	-		-	-	- -		-	-
Ruddy Turnstone		9	B	-	-		-	-	- -		-	-
Wandering Tattler		27	B	-	-		-	-	- -		-	-
Bristle-thighed Curlew		20	B	-	-		-	-	- -		-	-
Sooty Tern ***		35	B	-	-		-	-	- -		-	-

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: MOTU UPUA, CHRISTMAS ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 1-15 ~~16-end of month~~ 21st - 22nd

6) Species	(7) Rel.	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Rel.	(13) No. of Young	(14) Rel. Class	Returns Birds Collected (15) Age of Young 1-10	11-20	21+	(16) Rel.	(17) Young Banded	(18) Others Banded
Gray-backed Tern ***		2	A	-	-		-	-	-	-			-	-
Crested Tern ***		10	B	-	-		-	-	-	-			-	-
Noddy Tern		500	B	60	B		10	B	-	-			-	-
Hawaiian Noddy Tern		300	B	-	-		-	-	-	-			-	-
Blue-gray Noddy Tern		25	B	-	-		-	-	-	-			-	-
Fairy Tern		250	B	-	-		-	-	-	-			-	-
TOTAL		~~44~~ 19 species				5 breeding			62	11			8	804
													812	

*** Birds flying over only - not present on island

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: MANULA LAGOON AND ISLES LAGOON - (partial coverage) (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: ~~1-15~~ 21st-23rd ~~16-end of month~~

6) Species	(7) ~~Code~~	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) ~~Date~~	(13) No. of Young	(14) Rel. Class	(15) ~~Age of Young 0-10 11-20 21+~~		(16) ~~Date~~	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		20	B	-	-		10	B	-	-		5	12
Christmas Island Shearwater		200	B	20	B		15	B	-	-		4	49
Phoenix Island Petrel		20	B	4	B		-	-	-	-		-	10
White-throated Storm Petrel ~~Nesofregatta~~		60	B	26	A		7	A	-	-		6	27
Red-tailed Tropicbird		~~500~~ 900	B	75	B		300	B	-	-		100	57
Blue-faced Booby		100	B	10	B		18	B	-	-		1	19
Brown Booby		100	B	6	B		2	B	-	-		1	-
Red-footed Booby		500 ¾	B	14	B		40	B	-	-		20	61
Great Frigatebird		500	B	-	-		60	B	-	-		-	18
Golden Plover		abundant											
Ruddy Turnstone		4	B										
Wandering Tattler		10	B										
Bristle-thighed Curlew		15	B										

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: MANULA LAGOON and ISLES LAGOON (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 1-15 16-end of month 21st - 23rd

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Age of Young	(16) Date	(17) Young Banded	(18) Others Banded
Sooty Tern		100	B	-	-		-	0	- -		-	-
Gray-backed Tern		1000	B	250	B		30	B	- -		21	2
Crested Tern		25	B	-	-		-	-	- -		-	-
Noddy Tern		250	B	100	B		5	B	- -		2	4
Hawaiian Noddy Tern		350	B	-	-		-	-	- -		-	- 12
Blue-gray Noddy		2000	B	800	B		20	B	- -		9	3
Fairy Tern		25	B	4	B		2	B	- -		-	4
Land Warbler		25	C	-	-		-	-	1 collected		-	-
TOTAL		21 species			13 breeding				1 collected		173	278
											451	

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: WASHINGTON ISLAND, PACIFIC OCEAN (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 25th-26th

6) Species	(7)	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12)	(13) No. of Young	(14) Rel. Class	Birds Collected (15)	(16)	(17) Young Banded	(18) Others Banded
Phoenix Island Petrel	***	1	A	-	-		-	-	-		-	-
White-tailed Tropicbird		6	B	-	-		-	-	1		-	-
Blue-faced Booby ***		2	A	-	-		-	-	-		-	-
Brown Booby ***		1	A	-	-		-	-	-		-	-
Red-footed Booby		300	C	50	C				-		-	-
Great Frigatebird		100	C	-	-		-	-	-		-	-
Golden Plover		16	B	-	-		-	-	-		-	-
Wandering Tattler		2	B	-	-		-	-	-		-	-
Sooty Tern ***		5	B	-	-		-	-	-		-	-
Noddy Tern		300	C	50	C				-		-	-
Hawaiian Noddy Tern		200	C	-	-		-	-	-		-	-
Blue-gray Noddy		100	C	-	-		-	-	-		-	-
Fairy Tern		300	C	-	-		-	-	-		-	42

**** Flying over island only

Total 15 species (includes parrot and land warbler) 2 breeding 1 collected 42

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: PALMYRA ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: 27th - 29th

6) Species	(7)	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12)	(13) No. of Young	(14) Rel. Class	(15)	(16)	(17) Young Banded	(18) Others Banded
Brown Booby		600	B	50	B		150	B			99	48
Red-footed Booby		8000	B	800	C		1500	C	28	-	401	929
Great Frigatebird		200	B	-	-		-	-	-	-	-	-
Shoveler Duck		3	A	-	-		-	-	-	1	-	-
Baldpate		2	A	-	-		-	-	-	2	-	-
European Widgeon		1	A	-	-		-	-	-	1	-	-
Laughing Gull		2	A	-	-		-	-	-	1	-	-
Golden Plover		300	C	-	-		-	-	-	1	-	-
Ruddy Turnstone		300	C	-	-		-	-	-	-	-	-
Wandering Tattler		300	C	-	-		-	-	-	1	-	-
Bristle-thighed Curlew		100	C	-	-		-	-	-	-	-	2
Sharp-tailed Sandpiper		3	B	-	-		-	-	-	-	-	-
Sanderling		5	B	-	-		-	-	-	-	-	-

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: PALMYRA ISLAND (2) Observer(s): ATF Party

3) YEAR: 1964 (4) MONTH: November (5) PERIOD: [redacted] 27th-29th

6) Species	[redacted] Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	[redacted]	(13) No. of Young	(14) Rel. Class	[redacted] Young	[redacted]	(17) Young Banded	(18) Others Banded
Sooty Tern ***		500	B	-	-		-	-	- -		-	-
Noddy Tern		1500	C	------	nesting	----------		-	- -		-	-
Hawaiian Noddy Tern		8000	C	------	nesting	----------		-	- -	-	-	-
Fairy Tern		100	B	------	nesting	----------		-	- -		-	15
Domestic Chicken		1	A	-	-		-	-	- -		-	-
TOTAL		17 species			5 nesting				28 7		500	994
											1494	

*** Flying over island only

SI-MNH-958c
4-9-64

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

ATF 6

DATE 1 Oct 64

Time at sunrise = Position at sunrise =

Time at sunset 1822W = Position at sunset = 20-37.5N 158-34.5W

~~Times and miles from Johnston Island at nearest point =~~

Miles traveled from 0000 to sunrise =

Miles traveled from Pearl to sunset = 60 Miles

Miles traveled from sunset to 2400 = 81 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1953Z	LORAN	158-00 W	20-26 N
2.				
3.				
4.				
5.				
6.				
7.				

DATE 2 Oct 64

Time at sunrise = 0633 Position at sunrise = 160°-98'W., 19°-18'N

Time at sunset = 1837 Position at sunset = 169°-15'W., 17°-26'N

Miles traveled from 0000 to sunrise = 75 Miles

Miles traveled from sunrise to sunset = 150 Miles

Miles traveled from sunset to 2400 = 93 Miles

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0600(W	LORAN	160°-24'W.,	19°-24'N
2.	1754(W)	LORAN	169°-30'W.,	17°-22'N
3.				
4.				
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE 3 Oct 64

Time at sunrise = 0548 Position at sunrise = 15°-35'N., 164°-19'W

Time at sunset = 1753 Position at sunset = 14°-10'N 166°-35'W

~~Times and miles from Johnston Island at nearest point =~~

Miles traveled from 0000 to sunrise = 64 miles

Miles traveled from sunrise to sunset = 149 miles

Miles traveled from sunset to 2400 = 15 miles

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0545	LOran	164°-30'W	15-35'N
2.	1755	LOran	166°-35'W	14°-40'N
3.				
4.				
5.				
6.				
7.				

DATE 4 Oct 64

LAT LONG

Time at sunrise = 0603 Position at sunrise = 19°-18'N., 168°-19'W

Time at sunset = 1810 Position at sunset = 10° 38'N 170-27'W

Miles traveled from 0000 to sunrise = 75 M.

Miles traveled from sunrise to sunset = 150 mi.

Miles traveled from sunset to 2400 = 70 mi.

LAT LONG

	TIME OF FIX	TYPE OF FIX	~~LONGITUDE~~	~~LATITUDE~~
1.	0600	Celestial	19°-18'N	168°-30'W
2.	1836	CELESTIAL	10° 40'N	170-25'W
3.				
4.				
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE 05 OCT

LAT LONG

Time at sunrise 0615 = Position at sunrise = 09°05'N 172°25'W

Time at sunset = Position at sunset =

Times and miles from Johnston Island at nearest point =

Miles traveled from 0000 to sunrise = 105 mi.

Miles traveled from sunrise to sunset = 79 mi.

Miles traveled from sunset to 2400 =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0550	LORAN	172°22'W	09°08'N
2.				
3.				
4.				
5.				
6.				
7.				

DATE 06 OCT. 64

Time at sunrise = 0617 Position at sunrise =

Time at sunset = 1817 Position at sunset =

Miles traveled from 0000 to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 =

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

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE 7 OCT 64

Time at sunrise 0615 = Position at sunrise = 08-12 N 173-25 W

Time at sunset 1832 = Position at sunset = 07-30 N 173-48 W

~~Times and miles from Johnston Island at nearest point~~ =

Miles traveled from 0000 to sunrise = 63 mi.

Miles traveled from sunrise to sunset = 59 mi. ? Aff 88 ?

Miles traveled from sunset to 2400 = 76 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0555	CELSTIAL	173 10.1W	08 05N
2.	1200	D.R.	173 25.5W	08 19.6N
3.	1920	LORAN	173 46W	07 18.5N
4.				
5.				
6.				
7.				

DATE 8 OCT 64

Time at sunrise 0622 = Position at sunrise = 05 08.6N 174 46.5W

Time at sunset 1832 = Position at sunset = 03-08 N 175-48 W

Miles traveled from 0000 to sunrise = 56 mi.

Miles traveled from sunrise to sunset = 165 mi.

Miles traveled from sunset to 2400 = 74 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0556	CELESTIAL LORAN	174-45 W	05 10.5 N
2.	1228	CEL	175-06 W	04 28.3 N
3.	1858	CEL	175-49.5 W	03-06.2 N
4.				
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE 9 OCT

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Times and miles from Johnston Island at nearest point =

Miles traveled from 0000 to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.				
2.				
3.				
4.				
5.				
6.				
7.				

DATE _____

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 =

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

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

ATF

SI-[illegible]NH-955a
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 1 November 1964 Total Minutes: 330 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
33	108	3.28	

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
13	2	7	0	15	2	7	0	1.15	1	1	0				

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	0	2	2	0	2	1	0	1			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
18	100	5.5	

V. Abundance of Shorebirds:

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

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0	0	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.
2	104		1	93	

SI-MNH-955a
Rev. 4-9-64

ATF

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 2 November 1964 Total Minutes: 540 Total Miles

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
34	80	2.35	

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
18	4	1	19	4	1			1.5	1	1					

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
4	0	3	4	0	3	1	0	1			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
11	55	5	

V. Abundance of Shorebirds:

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

VI. Abundance of Boobys:

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

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0	0	0	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	41		1	25	

SI-MNH-955a
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 3 November, 1964 Total Minutes: _____ Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
29	263		

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
8	1	4	3	8	1	4	3								

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	1							

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
17	258		

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
—	—		

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
	—				—										

99
124
49
263

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	5		

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	269		2	237	

SI-MNH-955a
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

ATF-6

DATE: 30 November 1964 Total Minutes: 520 Total Miles _____

1. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
34	44	1.3	

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
31	25	0	6	40	32	0	8	1.3	1.28	0					

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
None											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
3	3	1	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

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
None															

VII. Abundance of Frigatebirds:

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

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
1	9		0	0	0

SI-MNH-958c
4-9-64

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

DATE ~~1 DEC~~ 1 DEC

Time at sunrise 0642 = Position at sunrise = 13-45 N 160-00 W

Time at sunset 1805 = Position at sunset = 15-30 N 159-20 W

~~Times and miles from Johnston Island at nearest point =~~

Miles traveled from 0000 to sunrise = 92 miles

Miles traveled from sunrise to sunset = 125 miles

Miles traveled from sunset to 2400 = 50 miles

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0621	CELESTIAL	160-00 W	13-45 N
2.	0800	CEL + LORAN	159-56 W	13-55 N
3.	1200	CEL + LORAN	159-43.4 W	14-27 N
4.	2000	CEL.	159-14.1 W	15-44.9 N
5.				
6.				
7.				

DATE ~~1 DEC~~ 2 DEC

Time at sunrise 0651 = Position at sunrise = 17-53 N 158-45 W

Time at sunset 1750 = Position at sunset = 19-52 N 158-05 W

Miles traveled from 0000 to sunrise = 95 miles

Miles traveled from sunrise to sunset = 127 miles

Miles traveled from sunset to 2400 = 30 miles

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CEL.	158-39.5 W	18-12.2 N
2.	1200	CEL. + LORAN	158-34.5 W	18-44.5 N
3.	2000	CEL., LORAN + D.R.	158-02.7 W	20-01 N
4.				
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE ~~4 DEC~~ 3 DEC

Time at sunrise 0655 = Position at sunrise = 21-12N 157-57W

Time at sunset = Position at sunset =

~~Times and miles from Johnston Island at nearest point~~ =

Miles traveled from 0000 to ~~sunrise~~ PEARL = 65 Miles

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 =

TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.			
2.			
3.			
4.			
5.			
6.			
7.			

DATE ~~4 DEC~~

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 =

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

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-85
DATE 1 November 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	1100					Start watch. Island almost lead	
	1102	Fairy Tern	1	S	20'		
	1110	Com Noddy	2	ENE	low		
	1112	"	1	"	"		
	1114	"	1	"	"		
	1115	Fairy tern	1	"	10'		
FF	1117	Com Noddy	80 ±10			actively feeding	
		Fairy tern	13				
	1130					Secure Watch.	
	1200					Resume " 11 92 1 / 104	
	1210	Fairy tern	1	N	20'		
	1211	"	1	W	15'		
	1211	Cook's	1	E	low		
F	1220	Fairy tern	6	NE		Not feeding	
		Com Noddy	2				
		Shear	3				
	1221	Fairy tern	1	NW	10'	Probably Anderson's; dark top, white w/ dark border on underside	
	1221	Collared type	1	E	low	(Matt has Petrel Pwd)	
	1225	Fairy tern	2	W	10'		
	1226	"	1	NE	10'		
	229	Wh-Tailed Trop	1	ENE	30'	29-104	
	1236	Fairy Tern	1	WNW	30'		
	1240	Cook's	1	S	Low		
	1241	Fairy Tern	1	E	30'		
	1241	Fairy Tern	1	E	10'		
	1245	Cook's	1	S	Low		
	1250	Cooks	1	NW	Low		
	1310	Fairy Tern	1	E	Low		
	1326	FAIRY Tern	1	SE	Low		
	1327	Cooks	1	NE	"		
	1330	Cook's	1	N	Low		
	1400	Sooty Shear	1	SE	Low		
	1400	Wedgetail	1	N	Low	Dark phase	
	1450	Com. Noddy	1	NE	Low		
	1455	Shear. Pet	1	SE	Low		

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-85

DATE 1 November 1964
Pg.# 2

time	species	#	dir.	hgt.	remarks	loc.
1500	Sooty Shear	1	SE	Low		
1510	Wedgetail	1	S	"	Dark phase	
1610	Com. Noddy	1	SSW	"		
1630					School of at least 6 porpoises - probably 20 - great activity and jumping for 2-3 minutes, then all quit. Either feeding or attacking something like a shark.	
1645	W.h-T. Tropi	1	NE	80'		
1700					End watch.	

4-7

300

$$\begin{array}{r} 115 \\ 13\overline{)15} \\ 1 \\ 20 \\ 13 \\ 10 \end{array} \quad \begin{array}{l} 42 \\ 7 \\ \\ 49 \\ \end{array}$$

$$37\overline{)108} \quad 32.75$$
$$\begin{array}{r} 99 \\ 90 \\ 66 \\ 240 \\ 221 \\ 190 \end{array}$$

$$18\overline{)100} \quad 5$$
$$90$$

SI-MNH-958e
7-28-64

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

ATF-85

DATE 2 November 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0800					Start watch.	
	0802	Fairy Tern	2	SW	30'		
	0808	Golden Plover	1	NW	40'		
	0822	Shear-Pet.	1	SSW	Low		
	0827					several colonial jellyfish with floats seen	
	0845	Cook's	1	SW	Low		
FF	0926	Sooty Tern	25	?	Low	appeared to be feeding.	
	0947	Wedgetail	1	W	Low	dark phase	
	1022	Cook's	1	SSW	Low		
	1100	Whitetail Tropic	1	SW	60'-80'		
	1102	Fairy Tern	1	E	10'		
	1104	Tropic bird	1	E	60'		
	1130					suspend watch	
	1200					cont'd	
	1218	Wh-T Tropic	1	E	40'	sitting on water	
	1230	Fairy Tern	2	E	30'		
	1245	Fairy Tern	1	E	20'		
F	1257	Fairy Tern	10	ESE	0-15'	Not feeding	
		Sooty Tern	1	ESE	0-15'		
	1300	Fairy Tern	3	E	0-5'		
		Bulwer's Petrel	1				
	1307	Sooty Shearwater	1	SW	Low		
	1342	Fairy Tern	1	NE	20'		
F	1345	"	5	NE	20'	Not feeding	
	1415	Sooty shear	1	SSW	low		
	1424	Collared type	1	S	"	Mallard Pintail (Pawn)	
	1430	Fairy tern	2	S	10'		
	1431	Sooty shear	1	S	low		
	1438	Sooty tern	1	E	30'	♂	
	"	Fairy tern	2	E	20'	Feeding	
	1455	Sooty shear	1	S	low		
	1459	Cook's	1	S	"		
	1555	Shear-Pet	1	S	"		
	1605	Shear-Pet	1	S	Low		
	1626	Sooty shear	2	SSW	"		
	1701	Sooty Shear	1	SE	Low		

1 2 3 5
34 180
68
120
102
180
170
100

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-85
DATE 2 November 1964
Pg.# 2

time	species	#	dir.	hgt.	remarks	loc.
1706	Sooty Shear	1	SW	Low		
1715					School of 15-100 porpoise heading SE jumping out of water. Dark on top light underneath	
1715	Sooty Shear	1	SE	Low.		
1720	W-T Tropic	1	S	75'		
1728	Pale-footed	1	SE	Low	light bill but light underwings also (?)	
1730					~~Se~~ End Watch.	

1-9 14 18 10 125

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATE-6
DATE 3 November 1964
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0830					Start	
	0820	Sooty Tern	2	E	Low		
	0840	Tern	1	NNW	"	Probably gray-backed	
	0855	Wedgetail	1	NNE	"	Dark phase	
	0907	Sooty Tern	1	SW	Low.		
	0919	"	1	E	"		
FF	0926	Frigate	4			feeding; one frigate dived; distant	
		Sooty tern	100 ±25				
	0928	Sooty tern	7	SW	10'	to join FF	
FF	0940	Frigate	1				
		Sooty tern	125 ±25			Very distant	
	0944	Cook's	1	N	Low		
	0947	"	1	S	"		
	0952	"	1	S	"		
F	0956	Sooty Tern	5	NW	60'		
F	1001	Sooty Tern	8	~	60'		
	1005	Fairy tern	1			feeding	
	1005	Sooty tern	1	SE	62'		
	1007	"	1	"	10'		
	1011	Storm petrel	2	N	low	Very conspicuous rectangular white rump patch, squared-off tail. Tail was short with the white area larger than the black area giving Tail stubby appearance Feet didn't extend beyond tail. Not erratic flight. Galapagos Dr. Storm Petrel?	
	1011	Bulwer's	1	N	"		
	1013	Cook's	1	N	"		
	1015	Fairy tern	1	S	15'	Following ship	
	1019	R-T Tropic	1		40'		
	1020	Fairy Tern	1	N	10'		
	1025	Bulwer's	1	N	Low		
	1050	Bulwer's	1	S	Low		
	1052	Sooty Tern	1	SW	60'		
	1055					12-18 porpoises; clean lateral stripe but color nearly uniform brown	
F	1056	Sooty tern	14	N	low	jumping	
F	1104	"	5	NE	20'	with porpoises for a time	

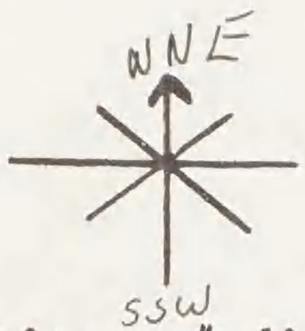
Paul Woodward says Probably Hercouta's

SIC 5

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

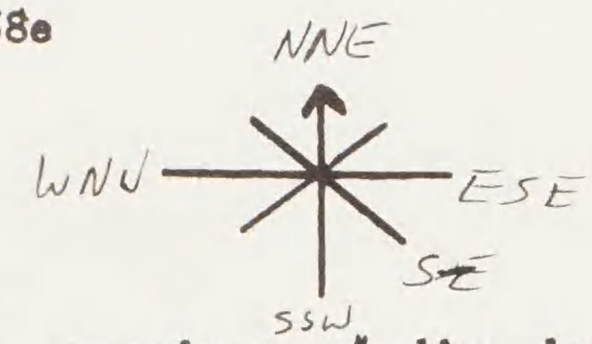
ATF-6
DATE 30 Nov 1964
Pg.# 1



	time	species	#	dir.	hgt.	remarks	loc.
	0800					Start	
	0808	W-n Petrel	1	NNE	Low		
	0809	Collared Ty	1	SW	Low		
	0820	Pterodroma	1	NNW	Low		
	0821	Harcourt's Ty	1	SE	Low		
	0823	D-r Petrel	1	"	Low		
	0827	Cook's	1	SSW	Low		
	0833	Shear Pet	2	SSW	"		
	0845	Harcourt's P.	1	SSW	Low		
F	0848	Nk Petrel	8				
		Sooty tern	1			Imm.	
	0950	Pterodroma	1	NNW	Low		
	0950	W-n Petrel	1	NNW	Low		
	1024	Shear-Pet	11	N	"		
	1028	Pterodroma	1	"	"		
	1058	Cook's	1	NW	Low		
	1121	Cook's	1	N	"		
	1130 ↓ 1206	Watch secured					
	1205	Cook's	1	W	"		
	1210	"	1	WSW	"		
	1213	Fairy Tern	1	ESE	5'		
	1221	Fairy Tern	1	SSE	Low		
	1256					School of about 100 small porpoises, several seen spinning. Dark tail & fins. Headed NE.	
	1301	White Neck	1	ESE	"		
	1303	Cook's	1	N	"		
	1313	White Neck	1	WNW	"		
	1314	" "	1	"	"		
	1348	Cook's	1	SE	"		
	1350	White-Neck	1	NW	"		
	1419	Cook's	1	ESE	"		

128
25 | 32
25
70
56
126

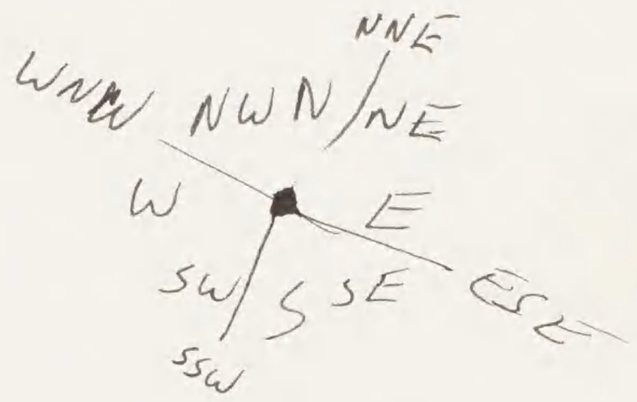
SI-MNH-958e
7-28-64



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE Nov. 30, 1964
Pg.# 2

time	species	#	dir.	hgt.	remarks	loc.
1426	Cook's	1	N	low		
1450	gr. Frigate	1		200'		
1510	Wedgetail	1	SE	low	D. Phase	
	White-Neck	1	"	"		
1528	Dark-rump	1	S	"		
1545	Hawaiian's	1	SE	Low		
1550	Cook's	1	"	Low		
1602	Storm Petrel	1	SE	Low		
1652	W-n Petrel	1	NW	Low		
1710					END	



27

7

9 - 10

530
-30
500

3
34 | 144
34
100

42 9
31 | 40
31
71 290

Oct. 20 - 30

Never
recieved

SI-MNH-958c
4-9-64

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

DATE NOV 1

Time at sunrise = Position at sunrise =

Time at sunset 1824 = Position at sunset = 13°11'S 170°31'W

~~Times and miles from Johnston Island at nearest point =~~

Miles traveled from 0000 to sunrise =

Miles traveled from sunrise to sunset = 53 mi. UNDERWAY

Miles traveled from sunset to 2400 = 66 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1300	VISUAL	170°30'W	14°05'S
2.	1858	CELESTIAL	170°32'W	13°08'S
3.				
4.				
5.				
6.				
7.				

DATE NOV 2

Time at sunrise 0550 = Position at sunrise = 10°42'S 170°34'W

Time at sunset 1819 = Position at sunset = 08°-12'S 170°29'W

Miles traveled from 0000 to sunrise = 77 mi.

Miles traveled from sunrise to sunset = 150

Miles traveled from sunset to 2400 = 60

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0534	CELESTIAL	170°33'W	11°47'S
2.	1205	CELESTIAL	170°30.5W	09°-43'S
3.	1854	CELESTIAL	170°29.1W	08°-06'S
4.				
5.				
6.				

~~Time at first leg of the actual grid =~~

~~Miles between sunrise to first leg of grid =~~

~~Miles between first leg of grid and sunset =~~

SI-MNH-958c
4-9-64

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

DATE Nov 3

Time at sunrise 0535 = Position at sunrise = 06-00S 170-30W

Time at sunset = Position at sunset =

~~Times and miles from Johnston Island at nearest point =~~

Miles traveled from 0000 to sunrise = 75 Mi.

Miles traveled from sunrise to ~~sunset~~ PHOENIX ISLAND = 165 Mi. = 240

Miles traveled from sunset to 2400 =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0530	CELESTIAL	170-32 W	05-57 S
2.	0800	CELESTIAL + DR	170-32.9W	05-28.4S
3.	1206	CELESTIAL	170-46W	04-41.5S
4.				
5.				
6.				
7.				

DATE ~~Nov 4~~

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 =

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

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE Nov 12

Time at sunrise = Position at sunrise =

Time at sunset 1816 = Position at sunset = 02-30S 171-00W

~~Times and miles from Johnston Island at nearest point~~ =

Miles traveled from 0000 to sunrise =

Miles traveled from ~~sunrise~~ CANTON ISLAND to sunset = 40

Miles traveled from sunset to 2400 = 65

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1854	CELESTIAL & DR	170-45W	02-34.8S
2.				
3.				
4.				
5.				
6.				
7.				

DATE Nov 13

Time at sunrise 0553 = Position at sunrise = 02-07S 169-03W

Time at sunset 1858 = Position at sunset = 01-30S 166-49W

Miles traveled from 0000 to sunrise = 59

Miles traveled from sunrise to sunset = 150

Miles traveled from sunset to 2400 = 50

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0553	CELESTIAL	169-03W	02-07S
2.	0600	CELESTIAL	168-52.3W	01-57.8S
3.	1200	CELESTIAL	168-12W	01-53S
4.	2000	CELESTIAL	166-39.4W	01-27.2S
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE Nov 14

Time at sunrise 0640 = Position at sunrise = 01-06 S 164-46 W

Time at sunset 1840 = Position at sunset = 00-49 S 162-40 W

~~Times and miles from Johnston Island at nearest point =~~

Miles traveled from 0000 to sunrise = 70 mi.

Miles traveled from sunrise to sunset = 125 mi.

Miles traveled from sunset to 2400 = 55 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	06-15	CELESTIAL	164-50 W	01-09 S
2.	0800	CELESTIAL + DR	164-32 W	01-05.1 S
3.	1700	CELESTIAL	163-51.5 W	00-58.3 S
4.	2000	CELESTIAL	162-28 W	00-45.2 S
5.				
6.				
7.				

DATE Nov 15

Time at sunrise 0623 = Position at sunrise = 00-15 S ~~160-46 W~~ 160-34 W

Time at sunset = Position at sunset =

Miles traveled from 0000 to sunrise = 60 mi

Miles traveled from sunrise to ~~sunset~~ JARVIS ISLAND = 31 mi

Miles traveled from sunset to 2400 =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0600	CELESTIAL	160-46 W	00-17 S
2.	0800	CELESTIAL + DR	160-24.1 W	00-18.7 S
3.				
4.				
5.				
6.				

~~Time at first leg of the actual grid~~ =

~~Miles between sunrise to first leg of grid~~ =

~~Miles between first leg of grid and sunset~~ =

SI-MNH-958c
4-9-64

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

DATE Nov 20

Time at sunrise = Position at sunrise =

Time at sunset 1818 = Position at sunset = 00-47 N 158-45 W

Times and miles from Johnston Island at nearest point =

Miles traveled from 0000 to sunrise =

Miles traveled from ~~sunrise~~ JARVIS to sunset = 105

Miles traveled from sunset to 2400 = 22

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1200	CELESTIAL	159-41.5 W	00-06 S
2.	2000	CELESTIAL	158-34 W	00-55 N
3.				
4.				
5.				
6.				
7.				

DATE Nov 21

Time at sunrise 0615 = Position at sunrise = 01-54 N 157-35 W

Time at sunset = Position at sunset =

Miles traveled from 0000 to sunrise = 60

Miles traveled from sunrise to ~~sunset~~ CHRISTMAS = 6

Miles traveled from sunset to 2400 =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0615	VISUAL	157-35 W	01-54 N
2.				
3.				
4.				
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE Nov 24

Time at sunrise = Position at sunrise =

Time at sunset 1871 = Position at sunset = 03-20 N 159-00 W

~~Times and miles from Johnston Island at nearest point~~ =

Miles traveled from 0000 to sunrise =

Miles traveled from ~~sunrise~~ UNDERWAY to sunset = 172 miles

Miles traveled from sunset to 2400 = 56 miles

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1217	CELESTIAL	157-58 W	02-21 N
2.	1857	CELESTIAL	159-05 W	03-25 N
3.	2000	DR	159-16.2 W	03-33 N
4.				
5.				
6.				
7.				

DATE ~~Nov 25~~ NOV 25

Time at sunrise 0632 Position at sunrise = 04-40.5 N 160-24 W

Time at sunset = Position at sunset =

Miles traveled from 0000 to ~~sunrise~~ WASHINGTON ISLAND 60 miles =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0632	VISUAL	160-24W	04-40.5N
2.				
3.				
4.				
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

SI-MNH-958c
4-9-64

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

DATE Nov 29

Time at sunrise = Position at sunrise =

Time at sunset 1830 = Position at sunset = 06-36 N 161-56 W

~~Times and miles from Johnston Island at nearest point =~~

Miles traveled from 0000 to sunrise =

Miles traveled from sunrise to sunset = 48 miles

Miles traveled from sunset to 2400 = ~~50~~ 66 miles

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	2000	CELESTIAL	161-50.2 W	06-54.2 N
2.				
3.				
4.				
5.				
6.				
7.				

DATE Nov 30

Time at sunrise 0644 = Position at sunrise = 161-10W 08-50N

Time at sunset 1824 = Position at sunset = 160-45W 11-10N

Miles traveled from 0000 to sunrise = 80 miles

Miles traveled from sunrise to sunset = 144 miles

Miles traveled from sunset to 2400 = 68 miles

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0616	CELESTIAL	161-10W	08-50 N
2.	0800	CELESTIAL/DR.	09-06.8N	161-04.0W
3.	1231	CELESTIAL	160-57W	09-55.5 N
4.	2000	CELESTIAL + LORAN	160-33.5 W	11-31.8 N
5.				
6.				

Time at first leg of the actual grid =

Miles between sunrise to first leg of grid =

Miles between first leg of grid and sunset =

ATF

DATE: Oct. 2, 1964 Total Minutes: 585 Total Miles: _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
215	303		

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
203	43	109	–	270	84	115	–								

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	–	1						

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
6	25		

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
–	–		

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
3	1	2	–	3	1	2	–								

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
4	5		

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	65		0		

ATP 6 Draft

DATE: Oct. 1, 1964 Total Minutes: 190 Total Miles: _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
85	119		

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
70	65	5	0	124	119	5	0								

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
			None								

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
7	15		

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
	None		

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	—	4	—	5	—	5	—								

VII. Abundance of Frigatebirds:

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

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/Mi.
3	50		0	←	—

45 | 68 | 35
36 | 40 | 9

T 31/26 | T 8/32 | T 61/36
W 31/26 | W 6/30 | P 3/3
P 7/2 | 58/33

Rob 5/4

3 sooty 1
2 terns?
2 sooty
1 noddy

7/3
six Noddy
1 sooty

ATF

SI-MNH-955a
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Oct. 3, 1964 Total Minutes: 570 minutes Total Miles _____

1. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
58	100		

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
54	3	40	–	77	3	45	–								

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
			NONE								

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
3	21		

V. Abundance of Shorebirds:

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

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
				NONE											

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
	NONE		

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
1	32		1	32	

ATF

SI-MNH-955a
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Oct. 4, 1964 Total Minutes: 580 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
119	203		

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
111	-8-	84-	1	167	-31-	111-	1	~~167~~		34					

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	1							

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
7	50		

V. Abundance of Shorebirds:

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

VI. Abundance of Boobys:

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

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
NONE			

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	92		1	8	

ATF Trip

DATE: October 5, 1964 Total Minutes: 565 Total Miles: _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
136	896		

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
128	4	31	7	816	4	39	7								

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
NONE											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
6	74		

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
5	6		

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
NONE															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
NONE			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/Mi.
33	770		0		

SI-MNH-955a
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: October 6, 1964 Total Minutes: 572 Total Miles

1. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
73	363		

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
70	7	19	-	359	16	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
1	1		1	1							

IV. Abundance of Terns:

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

V. Abundance of Shorebirds:

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

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
None															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
15	288		None		

SI-MNH-955a
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: October 7, 1964 Total Minutes: 572 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
79	116		

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
76	12	29	10	106	.16	. 10	. 31								

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
NONE											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
3	9		

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
3	3		

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
NONE															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
NONE			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
2	28				

SI-MNH-955a
Rev. 4-9-64

ATF

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Oct 8 Total Minutes: 565 min Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
47	102		

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	9	111	6	71	33	16	6								

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	1							

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	26		

V. Abundance of Shorebirds:

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

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
				NONE											

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
	NONE		

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
2	50		0		

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 1 Dec 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1011.2	80	65	—	4	Cu	060/6	81	15	085	019 13
0200			SCT	5	1010.5	80	65	—	4	Cu	060/6	81	15	085	019 13
0300			SCT	5	1010.2	80	65	—	5	Cu	060/6	81	15	085	019 13
0400			SCT	5	1009.2	80	65	—	4	Cu	060/6	81	15	080	019 13
0500			SCT	5	1009.5	80	65	—	2	Cu	060/6	81	15	080	019 13
0600			SCT	7	1010.5	80	65	—	3	Cu	060/6	81	15	080	019 13
0700			BKN	10	1011.5	80	65	—	5	Cu	060/6	81	15	080	019 13
0800	13-55 N	159-56W	BKN	10	1011.9	80	65	—	6	Cu	060/6	81	15	080	020 13
0900	03	52	BKN	10	1012.2	80	65	—	6	Cu	060/6	81	15	080	020 13
1000	11	49	BKN	10	1012.5	82	66	—	6	Cu	060/7	81	16	080	020 13
1100	19	46	BKN	10	1012.5	82	66	—	6	Cu	060/7	81	16	080	020 13
1200	14-27 N	159-33.4W	SCT	10	1011.5	82	64	—	5	Cu	060/7	81	18	070	020 13
1300	37	40	SCT	10	1011.2	82	64	—	5	Cu	060/7	81	19	075	020 13
1400	47	37	SCT	10	1010.2	82	64	—	5	Cu	060/7	81	19	075	020 13
1500	14 57	34	SCT	10	1009.8	81	63	—	5	Cu	060/7	81	19	075	020 13
1600	15 07	30	SCT	10	1009.8	80	64	—	6	Cu	060/7	81	20	075	020 13
1700	17	26	SCT	10	1010.2	80	64	—	6	Cu	060/7	81	20	075	020 13
1800	27	22	BKN	10	1010.5	78	64	—	7	Cu	060/6	80	15	070	020 13
1900	37	18	BKN	7	1011.9	79	64	—	7	Cu	060/6	81	15	070	020 13
2000	15-45N	159-17W	BKN	7	1012.5	79	64	—	7	Cu	060/6	81	15	070	016 12 4
2100			BKN	7	1012.8	79	64	—	7	Cu	060/6	81	17	070	016 12 4
2200			BKN	7	1013.2	78	64	—	7	Cu	060/6	81	17	070	016 12 4
2300			BKN	7	1013.2	78	64	—	7	Cu	060/6	81	18	070	016 12 4
2400			SCT	5	1012.9	78	64	—	2	Cu	060/6	82	18	070	016 12

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

11
10
11
11 0

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 7 DEC 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1012.5	78	61	—	2	Cu	060/6	80	16	070	016 12
0200			SCT	5	1012.5	78	61	—	2	Cu	060/6	80	16	070	016 12
0300			SCT	5	1011.9	78	61	—	2	Cu	060/6	80	16	070	016 12
0400			SCT	5	1011.9	77	60	—	3	Cu	060/6	80	16	070	016 12
0500			SCT	5	1012.2	77	60	—	3	Cu	060/6	80	16	070	016 12
0600			SCT	5	1012.5	77	60	—	3	Cu	060/6	80	16	070	016 12
0700			SCT	10	1013.2	78	63	—	7	Cu	060/6	80	16	070	016 12
0800	18-12.2N	158-39.5W	BKN	10	1014.2	77	63	—	7	Cu	050/3	80	10	040	016 10
0900	20	38	BKN	10	1014.9	79	63	—	8	Cu	050/3	80	10	040	016 10
1000	28	37	BKN	10	1014.9	77	63	—	5	Cu	100/5	80	10	140	016 10
1100	37	36	SCT	10	1014.5	80	63	—	4	Cu	110/4	80	10	150	016 10
1200	16-46N	158-35W	SCT	10	1013.5	84	65	—	4	Cu	110/4	80	10	150	016 10
1300	55	31	SCT	10	1012.5	74	70	—	4	Cu	130/4	80	10	030	016 10
1400	17 04	27	SCT	10	1011.9	80	70	—	4	Cu	145/4	80	10	030	030 11.2
1500	13	23	SCT	10	1011.5	82	66	—	4	Cu	145/4	80	10	050	020 11.2
1600	22	19	SCT	10	1011.5	82	62	—	5	Cu	050/3	80	12	050	020 11.2
1700	31	15	SCT	10	1011.9	81	61	—	5	Cu	050/4	80	12	060	020 11.2
1800	41	11	SCT	10	1012.2	81	77	—	5	Cu	050/6	80	12	060	020 11.2
1900	19 51	7	SCT	5	1013.2	80	62	—	5	Cu	050/6	80	12	060	020 11.2
2000	20-01N	155-02.7W	SCT	5	1013.5	80	62	—	5	Cu	050/6	80	16	040	001 10
2100			SCT	5	1013.4	80	62	—	5	Cu	050/6	80	16	040	001 10
2200			SCT	5	1013.4	80	62	—	5	Cu	050/6	80	16	040	010 10
2300			SCT	5	1013.4	80	62	—	3	Cu	050/4	80	16	040	020 10
2400			SCT	5	1013.4	80	62	—	3	Cu	050/3	80	16	040	020 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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3 Dec. 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	5	1013.2	77	62	—	7	ST/CU	050	80	10	040	021 15
0200			BKN	5	1012.5	77	62	—	7	ST/CU	050	80	10	040	021 7.4
0300			BKN	5	1012.4	77	62	—	7	ST/CU	050	80	10	040	021 7.4
0400			BKN	5	1012.1	77	62	—	6	ST/an	050/3	80	10	040	020 7.6
0500			BKN	5	1012.5	77	62	—	6	ST/an	050/3	80	12	040	300 7.6
0600			BKN	5	1012.5	76	61	—	7	ST/an	050/3	80	12	040	285 4.1
0700															
0800															
0900															
1000															
1100															
1200															
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															

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

ATF
6

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 1 OCT. '64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700	21-20	157-58	Pearl												
0800															
0900															
1000															
1100															
1200															
1300															
1400	21-20	157-58	Pearl												22/13
1500	10	58-06													
1600	00	14													
1700	50	22													
1800	20-40	158-30													
1900	31	34													
2000															
2100															
2200															
2300															
2400															

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2 OCT 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			OVC	6	1014.2	71	67	—	8	AS/SC	6	81	12	145	225 10
0200			OVC	6	1013.5	71	67	—	8	AS/SC	6	81	12	145	225 10
0300			OVC	6	1012.9	71	67	—	9	AS/SC	5	81	12	145	225 10
0400			OVC	6	1013.2	71	68	—	9	AS/SC	5	81	10	145	230 10
0500	19-30 N	160-40 W	OVC	7	1013.2	71	68	—	9	AS/SC	5	81	11	145	225 10
0600	19-20 N	160-20W	OVC	7	1013.9	78	68	—	8	AS/SC	4	81	10	145	226 12
0700	19-01 N	160-43W	OVC	10	1014.6	78	68	—	8	AS/SC/CU	4	81	12	145	220 12
0800	18-43 N	160-42W	OVC	10	1015.0	79	67	—	10	AS/SC/CU	4	81	12	101	220 12
0900	18-39	-52	OVC	10	1015.2	81	68	—	10	AS/SC/CU	4	81	12	100	225 12
1000	18°27'N	161-00W	OVC	10	1015.2	82	69	—	10	AS/SC/CU	4	81	13	093	225 12
1100	18-17	-10	OVC	10	1014.9	83	67	—	10	AS/SC/CU	4	81	13	090	225 12
1200	18° 12.5 N	161° 21.0W	OVC	10	1013.9	81	78		10	AS/SC/CU	4	81	13	090	225 12
1300	04	-31	OVC	10	1013.2	83	78		9	AS/SC/CU	4	81	13	090	225 12
1400	17-56 N	161-41W	OVC	10	1012.2	81	79		9	AS/SC/CU	4	81	13	090	225 12
1500	44	51	OVC	10	1011.9	81	78		8	AS/CU/CU	4	81	13	090	225 12
1600	32	01	OVC	10	1011.9	81	78		6	AS/CU	4	81	13	090	225 12
1700	20	10	OVC	10	1011.9	81	78		6	AS/CU	4	81	13	090	225 12
1800	10	23	OVC	10	1011.9	81	78		8	AS/CU	4	81	13	090	225 8
1900	02	34	OVC	10	1011.9	81	78		8	AS/CU	4	81	13	090	225 10
2000	16°-56.0N	162°-47.0W	OVC	5	1013.2	80	73	—	8	AS/CU	4	81	10	100	227 12.5
2100			BKN	5	1013.2	80	73	—	7	AS/CU	4	81	10	100	227 12.5
2200			BKN	5	1012.9	80	73	—	7	AS/CU	4	81	10	100	227 12.5
2300			BKN	5	1012.5	80	73	—	7	AS/CU	4	81	10	100	227 12.5
2400			SCT	6	1012.6	80	67	—	4	SC	4	81	12	110	227 12.5

REMARKS:

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

NOTE: At 1900 Ret. to All Ships clocks (1) hour To zone Plus
To + 11(X) Time Zone.

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3 Oct. 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			Sct.	6	1011.9	80	67	—	4	Sc/St	4 Ft	81	12	110	227 / 12.5
0200			Sct.	6	1011.2	80	67	—	4	Sc/St	4 Ft	81	12	110	227 / 12.5
0300			Sct.	7	1011.2	80	67	—	3	Sc	4 Ft	81	12	115	227 / 12.5
0400	15° 57' N	164° 10' W	SCT	7	1010.5	80	67	—	3	Sc	4 Ft	81	17	063	227 / 12.5
0500			SCT	7	1010.2	80	67	—	5	Sc	4 Ft	81	15	060	227 / 12.5
0600	15° 34' N	164 20' W	BKN	10	1010.9	80	67	—	7	Sc/Cu	4 Ft	81	17	058	227 / 12.5
0700	24	30	BKN	10	1010.8	83	67	—	6	Sc/Cu	4 Ft	81	18	060	227 / 12.5
0800	15° 16.5	164° 34W	BKN	10	1011.9	84	67		6	Ac/Cu	4 Ft	81	18	060	227 12.5
0900	03	51	Sct	10	1012.2	83	67		5	Ac/Cu	4 Ft	82	18	060	227 12.5
1000	14° 57 N	165 - 00 W	Sct	10	1012.2	83	67		5	Ac/Cu	4 Ft	81	18	060	227 12.5
1100	50	10	Sct	10	1011.9	82	67		5	Ac/Cu	4 Ft	81	18	060	227 12.5
1200	14° 41 N	165° 21W	SCT	10	1011.9	82	67		5	Ac/Cu	4 Ft	81	18	060	227 12.5
1300	31	30	SCT	10	1011.9	82	67		5	Ac/Cu	4 Ft	81	18	060	227 12.5
1400	21	37	SCT	10	1011.9	82	67		5	Ac/Cu	4 Ft	81	15	060	227 12.5
1500	10	44	SCT	10	1011.9	82	67		5	Ac/Cu	4 Ft	81	18	060	230 12.5
1600	01	51	SCT	10	1008.8	83	69	—	5	Ac/Cu	4 Ft	81	16	060	230 12.5
1700	50	64 06	SCT	10	1009.1	82	69	—	5	Ac/Cu	4 Ft	81	16	060	230 12.5
1800	40	15	BKN	10	1009.5	82	68	—	6	Ac/Sc	4 Ft	81	14	075	230 / 12.5
1900	35	27	BKN	8	1009.8	81	66	—	6	Sc	4 Ft	81	12	070	230 / 12.5
2000	13-31 N	166-39W	SCT	8	1010.5	81	70	—	3	Sc	4 Ft	81	16	074	230 / 12.5
2100			SCT	8	1011.2	81	70	—	3	Sc	4 Ft	81	16	074	230 / 12.5
2200			SCT	8	1011.2	81	70	—	3	Sc	4 Ft	81	13	067	230 / 12.5
2300			SCT	8	1010.8	81	70	—	3	Sc	4 Ft	81	13	065	230 / 12.5
2400			SCT	8	1009.8	81	70		3	Sc	4 Ft	81	13	065	230 / 12.5

REMARKS:

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

966.5

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 4 Oct 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	8	1011.9	80	67	—	3	SC	4FT	81	13	065	230 / 12.5
0200			SCT	8	1008.1	81	67		4	SC	4FT	81	13	065	230 / 12.5
0300			SCT	8	1008.1	82	67		5	SC	4FT	81	13	065	230 / 12.5
0400			SCT	8	1008.1	82	67		5	SC	4FT	81	13	065	230 / 12.5
0500			SCT	8	1008.1	82	67		5	SC	4FT	81	13	065	230 / 12.5
0600	12-11	168-34	SCT	8	1008.1	82	67		5	SC	4FT	81	13	065	230 / 12.5
0700	12-09	168-35										81			
0800	12-02.5N	168-40.8W	SCT	10	1009.5	83	72	—	8	SC	4FT	82	13	075	230 / 12.5
0900	11-55	50	SCT	10	1010.2	84	73	—	8	SC	4FT	82	13	075	230 / 12.5
1000	47	01	SCT	10	1009.5	83	72	—	8	SC	4FT	82	13	075	230 / 12.5
1100	46	11	SCT	10	1009.5	80	72	—	8	SC	5FT	82	13	075	230 / 12.5
1200	11-31 N	169-20W	BKN	10	1008.9	80	72	—	8	SC	4FT	82	12	070	230 / 12.5
1300	24	30	SCT	10	1007.8	83	72	—	5	CU	4FT	82	12	070	230 / 12.5
1400	20	40	SCT	10	1007.1	85	72	—	5	CU	3FT	82	12	075	230 / 12.5
1500	13	50	SCT	10	1007.1	83	70	—	4	CU	3FT	81	13	070	230 / 12.5
1600	11°-02.5N	169°-01W	SCT	10	1007.1	83	70	—	4	CU	3FT	82	14	060	230 / 12.5
1700	52	12	SCT	10	1007.1	83	70	—	4	CU	3FT	82	14	060	230 / 12.5
1800	10°-45 N	170°-21W	BKN	10	1007.8	83	72	—	6	CU	3FT	82	14	075	230 / 12.5
1900	36	31	BKN	10	1008.5	82	71	—	6	CU	3FT	82	14	075	230 / 12.5
2000	10°-27.1N	170-40.5	BKN	10	1008.8	82	71		6	CU	3FT	82	14	075	230 / 12.5
2100	19	50	BKN	10	1009.5	82	71		6	CU	3FT	82	14	075	230 / 12.5
2200	10°-13.1N	171°-01W	BKN	10	1009.8	82	71		5	CU	3FT	82	14	075	230 / 12.5
2300	04	11	BKN	10	1009.5	82	71		5	CU	3FT	82	14	075	230 / 12.5
2400	9°-56.5N	171°-22W	BKN	5	1008.8	82	72		7	CU	4FT	82	14	075	235 / 12.5

REMARKS:

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

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 5 OCT. 1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	5	1008.5	82	72		7	CU	4FT	82	12	065	233 / 12.5
0200	09°-41.5N	171°-41 W	BKN	5	1007.8	82	72		7	CU	4FT	82	12	065	233 / 12.5
0300			BKN	5	1007.8	82	72		7	CU	4FT	82	12	065	233 / 12.5
0400	09°-26.0	172°-01 W	BKN	5	1007.8	82	72		7	CU	4FT	82	12	065	233 / 12.5
0500	[redacted]		BKN	5	1007.8	82	72	—	7	CU	4FT	82	12	065	233 / 12.5
0600	09°-10.5 N	172°-20.5 W	OVC	5	1008.5	82	72	—	9	AS/CU	4FT	82	12	065	233 / 12.5
0700	09°-03 N	172°-30 W	OVC	8	1008.5	79	67	—	9	ST/CU	4FT	82	16	190	233 / 12.5
0800	08°-55 N	172°-41 W	BKN	10	1009.5	80	68	—	9	AS	4FT	82	18	140	233 / 12.5
0900	45	52	BKN	10	1010.5	80	67	—	9	AS	4FT	83	12	110	233 / 12.5
1000	35	03	BKN	10	1011.2	80	67	—	9	AS/CU	4FT	82	12	100	233 / 12.5
1100	25	13	BKN	10	1010.5	84	71	—	9	AS/CU	4FT	83	14	100	250 / 12.5
1200	08-17 N	173-27.5W	BKN	10	1010.2	84	71	—	9	AS/CU	4FT	82	6	105	220 / 12.5
1300	9-14	173 31	BKN	10	1009.1	84	71	—	9	AS/CU	4FT	82	6	105	180 / 10.5
1400	4.10	173-35	BKN	10	1008.1	84	70	—	9	AS/CU	4FT	82	7	125	180 / 10
1500	07	-40	BKN	10	1007.8	84	70	—	9	AS/CU	4FT	82	7	130	090 / 10
1600	02	-42	BKN	10	1007.8	83	71	—	8	AS/CU	4FT	82	7	130	090 / 10
1700	07-57	-45	BKN	10	1007.8	83	71	—	8	AS/CU	4FT	82	7	130	090 / 10
1800	-54	-45	BKN	10	1007.8	83	71	—	8	AS/CU	4FT	82	7	130	090 / 10
1900	-50		BKN	10	1009.5	83	71	—	8	AS/CU	4FT	82	7	130	150 / 10
2000			BKN	5	1010.5	81	71	—	9	AS/CU	4FT	82	7	130	250 / 10
2100			BKN	5	1010.5	80	72	—	9	AS/CU	4FT	82	12	150	150 / 10
2200			BKN	5	1010.5	80	72	—	9	AS/CU	4FT	82	12	150	150 / 10
2300			BKN	5	1010.1	80	72	—	9	AS/CU	4FT	82	12	090	090 / 10
2400			SCT	6	1010.2	81	70	—	3	SC	3FT	82	14	105	090 / 10.2

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 6 Oct. 1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	6	1009.1	81	71	—	3	SC	3FT	82	15	105	180 / 10.2
0200			SCT	6	1008.8	81	71	—	3	SC	3FT	82	16	100	000 / 10.2
0300			SCT	6	1008.8	81	71	—	4	SC	3FT	82	16	105	180 / 10.2
0400			SCT	6	1008.5	82	71	—	4	SC	3FT	82	5	090	270 / 10.2
0500			SCT	6	1008.5	82	71	—	4	SC	3FT	82	6	090	090 / 10.2
0600			BKN	10	1009.1	82	71	—	6	SC	3FT	82	6	042	270 / 10.2
0700			BKN	10	1010.5	82	71	—	6	SC	3FT	82	7	045	262 / 10.2
0800	08-17 N	173-25W	BKN	10	1010.8	82	70	—	9	SC	3FT	82	8	045	262 / 10.2
0900			—	7	1011.5	79	70	—	10	SC	3FT	82	8	050	270 / 10.2
1000			BKN	10	1011.9	82	70	—	8	SC	3FT	82	8	050	180 / 10.2
1100			BKN	10	1011.9	83	69	—	7	SC	3FT	82	8	050	000 / 4.0
1200			BKN	10	1011.5	86	71	—	8	Fe/Sc	2FT	82	10	080	090 / 4.1
1300			"	10	1010.5	86	71	—	8	Fe/Cu	2FT	82	10	080	180 / 4.1
1400			"	10	1009.8	86	71	—	8	Fe/Cu	2FT	82	10	090	000 / 9.3
1500			"	10	1009.8	86	71	—	8	Fe/Cu	2FT	82	10	090	180 / 9.3
1600			BKN	10	1009.1	82	71	—	8	As/Cu	2FT	82	10	080	270 / 9.3
1700			BKN	10	1009.8	82	71	—	8	As/Cu	2FT	82	10	050	090 / 9.3
1800			BKN	10	1009.8	82	71	—	8	As/Cu	3FT	82	10	050	180 / 9.3
1900			BKN	8	1009.8	82	71	—	8	As/Cu	3FT	82	10	050	000 / 9.3
2000			BKN	5	1010.8	82	68	—	8	As/Cu	3FT	82	10	050	180 / 9.3
2100			BKN	5	1010.5	82	68	—	8	As/Cu	3FT	82	10	050	180 / 9.3
2200			BKN	5	1010.5	82	68	—	8	As/Cu	3FT	82	10	050	000 / 9.3
2300			BKN	5	1010.5	82	68	—	8	As/Cu	3FT	82	10	050	090 / 9.3
2400			BKN	5	1010.2	80	68	—	8	As/Cu	3FT	82	10	050	180 / 9.3

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 7 OCT 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	08-17N	173-25W	SCT	5	1009.5	82	69	—	4	sc/cu	3	82	5	227	270 / 9.3
0200	"	"	SCT	5	1009.1	81	70	—	4	sc/cu	3	82	6	225	000 / 9.3
0300	"	"	SCT	5	1008.1	81	70	—	4	sc/cu	3	82	6	225	090 / 9.3
0400	"	"	BKN	5	1008.1	80	68	—	6	sc/sc	3	82	8	100	180 / 9.3
0500	"	"	BKN	5	1008.1	81	71	—	7	sc/sc	3	82	9	100	270 / 9.3
0600	09.05	173 11 0	"	8	1008.1	81	71	—	8	sc/sc	2	83	8	100	000 / 9.3
0700	"	"	"	10	1008.9	83	69	—	10	sc/cu	2	85	8	100	090 / 9.3
0800	"	"	"	10	1009.1	84	71	—	7	sc/cu	3	85	8	270	308 / 9.3
0900	"	"	"	10	1010.4	87	72	—	8	sc/cu	3	85	10	270	308 / 9.3
1000	"	"	OVC	10	1010.2	86	70	—	8	sc/cu	2	85	10	330	308 / 9.3
1100	"	"	OVC	10	1009.8	80	73	—	8	sc/cu	2	85	10	130	135 / 9.3
1200	09.20	173.26	BKN	10	1008.8	80	70	—	8	sc/cu	4	85	10	130	315 / 9.3
1300	"	"	BKN	10	1008.1	80	70	—	8	sc/cu	4	85	10	130	315 / 9.3
1400	08-17N	173-25W	BKN	10	1007.8	80	71	—	8	sc/cu	4	85	10	130	204 / 11.3
1500	-04	-27	BKN	10	1006.8	82	70	—	8	sc/cu	4	82	10	130	204 / 11.3
1600	07-53N	173-32W	Overcast	10	1007.5	79	69	—	10	sc/cu	2	85	20	150	204 / 12.3
1700	-46	-40	Overcast	10	1007.6	77	69	—	10	sc/cu	2	85	27	025	204 / 12.3
1800	-40	-45	OVC	10	1008.1	78	69	—	10	sc/cu	2	85	21	195	204 / 12.3
1900	07-20N	173-50W	OVC	9	1008.7	80	70	—	10	sc/cu	2	85	20	195	204 / 12.3
2000			OVC	6	1009.1	78	71	—	10	sc/cu	2	85	6	290	204 / 12.3
2100			OVC	6	1009.5	78	71	—	10	sc/cu	2	85	6	290	204 / 12.3
2200			BKN	6	1009.8	78	71	—	6	sc/cu	2	85	4	264	210 / 12.3
2300			SCT	6	1009.8	78	71	—	4	sc/cu	2	85	4	264	210 / 12.3
2400			SCT	5	1009.1	80	73	—	7	sc/cu	2	85	5	264	210 / 12.3

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 8 OCT 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1008.5	82	72	—	6	SC	2	85	10	160	210 / 12.3
0200			SCT	5	1007.8	82	72	—	6	SC	2	85	10	160	210 / 12.3
0300			SCT	5	1007.8	82	71	—	6	SC	2	85	10	160	210 / 12.3
0400			"	5	1007.9	80	70	—	5	SC/CI	2	85	15	170	210 / 12.3
0500			"	6	1008.1	80	68	—	3	SC	2	85	15	170	210 / 12.3
0600			BKN	9	1008.5	81	67	—	8	AS/SC	3	85	15	170	210 / 12.3
0700			"	10	1009.5	81	67	—	8	AS/SC	3	85	15	160	210 / 12.3
0800			BKN	10	1009.5	81	67	—	8	AS/CU	3	85	15	160	210 / 12.3
0900			BKN	10	1009.5	81	67	—	8	AS/CU	3	85	15	160	210 / 12.3
1000			BKN	10	1009.5	82	67	—	8	AS/CU	3	85	15	140	210 / 12.3
1100			BKN	10	1010.2	84	69	—	8	AS/CU	3	85	15	160	210 / 12.3
1200	04-21 N	175-04 W	BKN	10	1009.1	84	70	—	8	AS/CU	3	85	13	155	210 / 12.3
1300			OVC	10	1008.5	82	70	—	9	AS/CU	3	85	13	155	210 / 12.3
1400			OVC	10	1007.8	83	70	—	9	AS/CU	3	85	13	155	210 / 12.3
1500			OVC	10	1007.1	84	70	—	10	AS/CU	3	85	13	155	210 / 13.3
1600			BKN	10	1007.1	85	69	—	9	AS/CU	3	85	14	137	200 / 12.3
1700			BKN	10	1007.1	85	69	—	9	AS/CU	3	85	14	140	200 / 12.3
1800			BKN	10	1007.9	84	68	—	7	AS/CU	3	85	11	140	200 / 12.3
1900			BKN	10	1008.5	84	68	—	7	AS/CU	3	85	11	140	200 / 12.3
2000			BKN	5	1009.5	82	69	—	6	AS/CU	3	85	12	137	191 / 12.3
2100			BKN	5	1010.5	80	68	—	6	AS/CU	3	85	15	160	191 / 12.3
2200			BKN	5	1010.8	80	69	—	6	AS/CU	3	85	15	160	191 / 12.3
2300			BKN	5	1011.2	80	68	—	6	AS/CU	3	85	15	140	191 / 12.3
2400			SCT	6	1011.2	79.3	68	—	3	SC	2	85	18	150	191 / 12.3

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 9 OCT. 1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			Sct	6	1016.4	79	68	—	2	Sc	2FT	85	18	150	191 / 12.1
0200			"	6	1010.8	79	68	—	3	Sc	2FT	85	16	145	191 / 12.1
0300			"	6	1009.8	79	68	—	3	Sc	2FT	85	16	140	191 / 12.1
0400			"	6	1009.8	79	68	—	2	Sc	2FT	85	16	140	191 / 12.1
0500			"	6	1009.8	79	68	—	2	Sc	2FT	85	16	140	191 / 12.1
0600			"	6	1010.2	79	68	—	2	Sc	2FT	85	16	140	191 / 12.1
0700			"	6	1010.8	79	68	—	2	Sc	2FT	85	16	140	150 / 12.1
0800			Sct	10	1011.9	81	69	—	2	Sc	2FT	85	16	140	150 / 12.1
0900	Howland		Sct	10	1012.2	82	70	—	5	Sc	2FT	85	10	140	DRIFTING / 4.1
1000			Sct	10	1012.2	83	70	—	5	Sc	2FT	85	10	130	" / 4.1
1100	Howland IS		Sct	10	1012.5	80	70	—	5	Sc	2FT	85	10	130	085 / 4.1
1200			Sct	10	1011.9	82	69	—	5	Cu	2FT	85	11	120	220 / 4.1
1300			Sct	10	1011.2	85	68	—	5	Cu	2FT	85	13	103	083 / 4.1
1400			Sct	10	1010.2	83	69	—	5	Cu	2FT	85	13	103	160 / 4.1
1500			Sct	10		85	68	—	5	Cu	2FT	85	12	100	160 / 4.1
1600			Sct	10	1009.5	80	67	—	6	Cu	2FT	85	12	100	DRIFTING.
1700			Sct	10	1009.5	80	67	—	6	Cu	2FT	85	12	100	DRIFTING
1800			Sct	10	1009.5	81	67	—	6	Cu	3FT	85	12	100	111 / 4.1
1900			Sct	10	1009.8	80	67	—	6	Cu	3FT	85	12	100	195 / 4.1
2000			Sct	6	1011.1	79	67	—	3	Cu	3FT	85	10	100	310 / 4.1
2100			Sct	6	1011.2	79	67	—	3	Sc/Cu	3FT	85	14	110	165 / 4.1
2200			Sct	6	1011.2	79	67	—	3	Sc/Cu	3FT	85	16	110	345 / 4.1
2300			Sct	6	1011.9	80	67	—	3	Sc	2FT	85	16	115	145 / 4.1
2400			Sct	6	1011.4	80	67	—	3	Sc	2FT	85	16	115	VARIOUS COURSES

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 10 oct 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	HOWLAND	IS —	SCT	5	1011.8	80	67	—	3	SC	2	85	11	115	VARIOUS COURSES
0200			SCT	5	1011.6	80	67	—	3	SC	2	85	10	115	" "
0300			SCT	5	1011.6	80	67	—	3	SC	2	85	10	115	" "
0400			SCT	5	1010.5	78	67	—	3	SC	2	85	10	115	" "
0500			SCT	8	1010.5	79	67	—	3	SC	2	85	15	135	" "
0600			SCT	10	1011.2	78	67	—	3	SC	2	85	15	135	" "
0700			SCT	10	1011.9	80	68	—	3	SC	2	85	15	135	" "
0800			SCT	10	1012.2	81	68	—	4	SC	2	85	10	110	" "
0900			SCT	10	1012.5	82	67	—	5	SC	2	85	10	110	" "
1000			SCT	10	1012.5	82	67	—	5	SC	2	85	10	110	" "
1100			SCT	10	1012.5	82	67	—	5	SC	2	85	10	110	" "
1200			SCT	10	1009.5	85	70	—	5	SC	2	85	10	110	" "
1300			SCT	10	1010.8	85	70	—	5	SC	2	85	10	080	" "
1400			SCT	10	1010.3	81	66	—	5	SC	2	85	10	080	" "
1500			SCT	10	1009.5	83	69	—	5	SC	3	85	10	080	" "
1600			SCT	10	1009.8	83	69	—	4	CU	3	85	12	100	145 / 4.1
1700			SCT	10	1009.8	84	70	—	3	CU	3	85	12	100	145 / 4.1
1800			SCT	10	1010.6	83	69	—	3	SC	3	85	12	110	145 / 4.1
1900			SCT	5	1010.9	79	67	—	3	SC	3	85	12	100	145 / 4.1
2000			SCT	5	1011.5	79	67	—	3	SC	3	85	12	100	170 / 4.1
2100			SCT	5	1011.5	79	67	—	3	SC	3	85	12	100	170 / 4.1
2200			SCT	5	1011.5	79	67	—	3	SC	3	85	12	100	170 / 4.1
2300			SCT	5	1011.5	79	67	—	3	SC	3	85	12	100	170 / 4.1
2400			SCT	5	1011.3	79	67	—	3	SC	3	85	12	100	170 / 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 11 oct 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	Hon Hong	I's	Sct	5	101.2	78	67	—	3	Sc	2	85	15	250	Under way
0200			Sct	5	1010.5	78	67	—	3	Sc	2	85	15	260	"
0300			Sct	5	1010.5	78	67	—	3	Sc	2	85	15	270	"
0400			SCT	5	1010.6	78	66	—	3	Sc	2	85	10	050	"
0500			SCT	5	1010.8	79	66	—	3	Sc	2	85	8	105	"
0600			SCT	7	1011.2	79	66	—	3	Sc	2	85	8	105	"
0700			SCT	10	1011.9	79	67	—	5	Sc	2	85	5	090	"
0800			SCT	10	1012.5	81	66	—	6	Sc	3	83	10	085	"
0900			SCT	10	1012.5	81	65	—	6	Sc	3	83	10	090	"
1000			SCT	10	1012.9	82	65	—	6	Sc	2	83	10	070	"
1100			SCT	10	1012.9	84	67	—	6	Sc	2	83	10	090	"
1200			BKN	10	1012.1	81	66	—	6	Cu	2	85	12	110	350 4
1300			"	10	1011.6	82	68	—	6	Cu	2	85	12	110	Under way
1400			"	10	1010.7	80	65	—	6	Cu	2	85	12	110	"
1500				10	1009.8	80	65	—	6	Cu	2	83	12	110	155 4
1600			"	10	1009.5	80	65	—	6	Cu	2	83	12	110	030 4
1700			"	10	1010.1	80	65	—	6	Cu	2	83	12	110	
1800			"	10	1010.1	80	65	—	6	Cu	2	82	12	110	
1900			"	10	1010.8	79	65	—	6	Cu	2	82	12	110	
2000			"	10	1011.2	76	64	—	5	Cu	2	82	12	110	
2100			"	10	1011.5	79	64	—	4	Cu	2	82	12	110	
2200			"	5	1011.9	80	65	—	4	Cu	2	82	12	110	
2300			"	5	1011.9	78	65	—	4	Cu	2	82	12	110	
2400			SCT	5	1011.9	79	67	—	2	Cu	2	82	9	118	330 4

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 12 OCT 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1011.2	79	67	—	2	Cu	2	82	9	120	160 4
0200			SCT	5	1010.5	79	67	—	2	Cu	2	82	9	120	165 4
0300			SCT	5	1009.8	79	67	—	2	Cu	2	82	9	120	350 4
0400			SCT	5	1009.1	78	68	—	2	Cu	2	82	10	120	165 4
0500			SCT	5	1009.1	78	68	—	2	Cu	2	82	10	100	340 4
0600			SCT	5	1009.8	79	67	—	5	Cu	2	82	8	100	145 4
0700			SCT	10	1010.5	78	68	—	5	Cu	2	82	8	110	325 4
0800			SCT	10	1011.2	83	67	—	4	Cu	3	82	8	105	165 4
0900			SCT	10	1011.8	83	68	—	4	Cu	2	82	10	110	LYING TO
1000			SCT	10	1011.8	83	68	—	3	Cu	2	83	12	110	HEAVES OCCURED
1100			SCT	10	1011.6	81	67	—	3	Cu	2	83	12	110	155 4
1200			SCT	10	1010.7	81	67	—	3	Cu	2	83	12	110	165 4
1300			SCT	10	1009.8	82	66	—	5	Cu	2	81	12	110	DRIFTING
1400			SCT	10	1009.1	80	65	—	5	Cu	2	81	12	110	DRIFTING
1500			SCT	10	1008.5	80	68	—	5	Cu	2	81	12	110	340 4
1600			SCT	10	1008.5	87	70	—	5	Cu	2	81	12	110	VARIOUS
1700			SCT	10	1011.8	87	70	—	5	Cu	2	81	12	110	"
1800			SCT	10	1008.8	80	68	—	5	Cu	2	81	12	110	"
1900			SCT	10	1009.1	80	68	—	5	Cu	2	81	12	110	"
2000			SCT	10	1009.1	80	65	—	4	Cu	2	81	12	110	"
2100			SCT	10	1010.2	79	66	—	3	Cu	2	81	8	100	"
2200			SCT	10	1010.8	79	66	—	3	Cu	2	81	8	100	"
2300			SCT	10	1011.2	79	66	—	3	Cu	2	81	8	100	"
2400			SCT	5	1011.2	79	66	—		Cu	2	81	5	100	"

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 13 OCT 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1011.2	79	66	—	4	Cu	2	81	10	100	LSR 10 kts
0200			SCT	5	1011.2	79	66	—	4	Cu	2	81	10	100	"
0300			SCT	5	1011.2	79	66	—	4	Cu	2	81	10	100	"
0400			"	5	1010.2	79	66	—	5	Sc	3	81	8	095	"
0500			"	5	1010.2	81	67	—	5	Sc	3	81	10	090	"
0600			"	7	1010.8	78	66	—	5	Cu	3	81	14	090	"
0700			"	10	1011.2	80	65	—	3	Cu	2	81	11	095	"
0800			SCT	10	1012.5	80	65	—	4	Cu	1	81	9	095	"
0900			SCT	10	1012.5	81	66	—	4	Cu	2	81	11	090	"
1000			SCT	10	1012.5	81	66	—	5	Cu	2	81	13	083	158 12
1100			SCT	10	1012.5	81	66	—	4	Cu	2	81	12	088	158 12
1200	10°22' N	126 24W	SCT	10	1011.1	83	67	—	2	Cu	2	81	11	090	VARIOUS AT REDUCED
1300			SCT	10	1010.1	81	67	—	3	Cu	2	81	13	det	"
1400			SCT	10	1009.5	81	67	—	2	Cu	2	81	12	088	"
1500			SCT	10	1009.5	80	65	—	2	Cu	2	81	13	080	"
1600			SCT	10	1009.5	82	64	—	3	Cu	2	81	12	085	"
1700			SCT	10	1009.5	82	64	—	3	Cu	2	81	9	085	"
1800			SCT	10	1009.8	81	65	—	4	Cu	2	81	9	085	"
1900			SCT	10	1009.8	81	65	—	4	Cu	2	81	9	085	"
2000			SCT	5	1010.5	80	65	—	4	Cu	2	81	9	085	"
2100			SCT	5	1010.5	80	65	—	4	Cu	2	81	10	085	"
2200			SCT	5	1011.0	80	65	—	4	Cu	2	81	12	085	"
2300			SCT	5	1011.0	80	65	—	4	Cu	2	81	8	085	"
2400			"	6	1011.0	79	66	—	3	Sc/Cu	2	81	10	090	280 / 12

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-955b
Rev. 4-9-64

DATE 13 Oct 1964

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			Sct	6	1013.9	79	66	—	3	sc/cu	2	81	12	060	180 / 4.0
0200			Sct	6	1013.5	78	65	—	3	Sc	2	81	13	060	180 / 4.0
0300			Sct	6	1013.0	78	65	—	3	Sc	2	81	13	060	180 / 4.0
0400			SCT	5	1012.7	78	65	—	2	SC	2	81	12	060	180 / 4.0
0500			SCT	5	1012.2	78	65	—	2	SC	2	81	12	060	180 / 4.0
0600			SCT	5	1011.7	79	66	—	2	SC	2	81	12	060	180 / 4.0
0700			SCT	10	1011.5	79	66	—	2	SC	2	81	12	060	180 / 4.0
0800	BAKER	75	Sct	10	1012.2	81	67	—	2	Sc	2	81	12	060	180 / 4.0
0900			SCT	10	1012.5	81	67	—	4	Sc	2	81	12	060	180 / 4.0
1000			SCT	10	1012.9	81	67	—	3	Sc	2	81	12	060	180 / 4.0
1100			Sct	10	1012.5	81	67	—	3	Sc	2	81	12	060	180 / 4.0
1200			SCT	10	1011.9	81	67	—	2	Sc/cu	2	81	10	060	180 / 4.0
1300			SCT	10	1010.4	82	64	—	2	Sc/cu	2	81	6	114	180 / 4.0
1400			SCT	10	1010.2	82	64	—	2	Sc/cu	2	81	6	114	180 / 4.0
1500			SCT	10	1009.1	82	64	—	4	Sc/cu	2	81	6	115	180 / 4.0
1600			SCT	10	1009.1	82	64	—	4	Sc/cu	2	81	6	110	180 / 4.0
1700			SCT	10	1009.1	82	64	—	4	Sc/cu	2	81	6	115	180 / 4.0
1800			BKN	10	1009.5	79	66	—	7	Sc/cu	2	81	7	110	340 / 4.0
1900			BKN	5	1009.9	78	64	—	7	Sc/cu	2	81	7	110	330 / 4.0
2000			SCT	6	1009.8	79	62	—	4	Sc	2	81	10	100	330 / 4.0
2100			Sct	6	1010.3	79	66	—	2	Sc	2	81	10	100	180 / 4.0
2200			BKN	7	1010.8	80	67	—	2	Sc/cu	2	81	10	110	180 / 4.0
2300			BKN	7	1010.8	80	67	—	2	Sc/cu	2	81	10	110	180 / 4.0
2400			BKN	7	1010.8	80	67	—	7	Sc/cu	2	81	10	100	175 / 4.0

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-955b
Rev. 4-9-64

DATE 15 OCT 64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	7	1009.8	80	67	—	6	Cu	2	81	12	060	035 / 4.1
0200			SCT	5	1009.1	80	67	—	6	Cu	2	81	12	060	035 / 4.1
0300			SCT	5	1008.5	80	67	—	7	Cu	2	81	12	060	155 / 4.1
0400	Hanover	JS	SCT	5	1008.5	80	67	—	7	cu	2	81	12	060	VARIOUS
0500			SCT	5	1008.5	79	67	—	7	Cu	2	81	12	060	"
0600			SCT	5	1009.5	79	67	—	7	Cu	2	81	12	060	"
0700			SCT	5	1010.2	79	67	—	7	Cu	2	81	12	060	"
0800			SCT	10	1011.5	83	65	—	5	Cu	2FT	81	10	100	090 / 4.1
0900			SCT	10	1011.5	83	65	—	5	Cu	2FT	81	10	100	090 / 4.1
1000			SCT	10	1011.5	83	65	—	3	Cu	2FT	81	10	100	090 / 4.1
1100			SCT	10	1011.5	83	65	—	3	Cu	2	81	10	110	210 4.1
1200			SCT	10	1010.8	84	67	—	5	Cu	2	81	10	110	060 4.1
1300			SCT	10	1009.8	82	67	—	5	Cu	2	81	10	110	185 4.1
1400			SCT	10	1008.8	83	65	—	5	Cu	2	81	10	110	DRIFTING
1500			SCT	10	1007.8	82	66	—	5	Cu	2	81	10	110	137 / 11.6 KTS
1600	PLYMOUTH	WINDWARD	SCT	10	1007.5	83	66	—	4	Cu	2FT	81	14	110	137 / 11.4 KTS
1700			SCT	10	1008.4	83	65	—	3	Cu	2FT	81	14	110	137 / 11.4
1800			SCT	10	1008.1	85	66	—	3	Cu	2FT	81	17	110	137 / 14.1
1900			SCT	10	1009.4	83	65	—	3	Cu	2FT	81	15	105	137 / 11.4
2000			SCT	5	1009.9	83	65	—	3	Cu	2FT	81	15	105	137 / 11.4
2100			SCT	5	1009.8	83	65	—	4	Cu	2FT	81	13	105	137 / 11.4
2200			SCT	5	1010.2	83	65	—	4	Cu	2FT	81	15	105	133 / 11.4
2300			SCT	5	1010.2	80	66	—	4	Cu	2FT	81	15	105	133 / 11.4
2400	0000	176-00	SCT	5	1009.8	80	66	—	4	Cu	2FT	81	15	105	133 / 11.4

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-955b
Rev. 4-9-64

DATE 16 oct 64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1009.1	80	66	—	4	Cu	2 Ft	81	15	105	133 / 11.4
0200	00 00	170 —	SCT	6	1009.5	80	66	—	3	Cu	2 Ft	81	15	105	133 / 11.4
0300			SCT	5	1007.8	74	64	—	10	Cu	2 Ft	81	15	105	133 / 11.4
0400			SCT	10	1007.8	77	64	—	2	Cu	2	81	15	110	133 / 8.4
0500			SCT	10	1007.3	77	66	—	2	Cu	2	81	15	110	133 / 8.4
0600			SCT	10	1006.1	79	66	—	3	Cu	2	81	16	112	133 / 8.4
0700															
0800			SCT	10	1008.8	81	64	—	3	Cu	2	81	8	110	310 / 8.4
0900			SCT	10	1010.2	81	68	—	5	Cu	2	81	8	110	315 / 8.4
1000			SCT	10	1010.2	84	68	—	5	Cu	2	81	15	110	320 / 8.4
1100			SCT	10	1009.6	83	69	—	5	Cu	2	84	15	110	320 / 8.4
1200			SCT	10	1008.8	85	69	—	5	Cu	3	83	14	105	330 / 7.5
1300			SCT	10	1008.5	86	69	—	5	Cu	3	81	14	100	4 watches
1400			SCT	10	1007.8	86	68	—	5	Cu	3	81	13	100	"
1500			BKN	10	1007.4	85	68		6	Cu	3	81	15	105	"
1600			BKN	10	1007	81	72	—	6	Cu	3	81	12	105	"
1700			BKN	10	1007.1	81	72	—	6	Cu	3	81	12	105	"
1800			BKN	10	1007.3	55	72	—	6	Cu	3	81	12	105	"
1900			BKN	7	1008.5	80	72	—	6	Cu	3	81	12	105	108 / Full
2000			BKN	7	1008.8	80	72	—	6	Cu	3	81	12	105	108 / "
2100			BKN	7	1009.1	80	72	—	6	Cu	3	81	12	105	108 / "
2200			BKN	7	1009.3	80	72	—	5	Cu	3	81	12	105	108 / 10.4
2300			BKN	7	1009.3	80	72	—	4	Cu	3	81	12	100	108 / "
2400			SCT	7	1009.1	82	69	—	4	Cu	3				108 / 13.5

REMARKS:

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

23 6 3/4
10
23 6

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 17 OCT 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10	1008.5	82	69	—	4	Cu	3	81	12	085	108 13.5
0200			SCT	10	1007.8	81	71	—	5	Cu	3	81	12	085	108 13.5
0300			SCT	10	1007.5	81	71	—	3	Cu	3	81	12	085	108 13.5
0400			SCT	5~~0~~	1007.1	81	71	—	4	Cu	3	81	13	085	105 13.5
0500			SCT	5	1007.1	80	70	—	4	Cu	3	81	13	085	105 13.5
0600			SCT	10	1007.8	79	70	—	4	Cu	3	81	12	085	105 13.5
0700			SCT	10	1008.8	79	70	—	4	Cu	3	81	12	085	105 13.5
0800			SCT	10	1009.5	80	72	—	3	Cu	3	81	16	070	070 13.0
0900			SCT	10	1009.3	81	71	—	3	Cu	3	81	16	070	105 13.0
1000			BKN	10	1008.8	81	71	—	3	Cu	4	81	17	065	105 13.0
1100			BKN	10	1009.5	82	72	—	3	Cu	4	81	18	070	105 13.0
1200			BKN	10	1008.5	82	72	—	3	Cu	4	81	15	070	104 13.0
1300			BKN	10	1008.9	82	72	—	3	Cu	4	81	15	070	097 13.0
1400			"	10	1009.1	82	71	—	6	Cu	4	81	14	070	115 13.0
1500			"	10	1009.1	82	71	—	6	Cu	3	81	15	070	[illegible]
1600	CANTON IS.		"	10	1006.8	80	72	—	6	Cu	4	81	16	070	DRIFTING
1700	ENROUTE HONOLULU		"	10	1006.8	80	72	—	6	Cu	4	81	16	070	" "
1800			"	10	1007.8	81	72	—	7	Cu	4	81	16	070	249 11.5
1900			"	10	1008.5	81	72	—	7	Cu	4	81	16	070	249 11.5
2000			SCT	10	1009.1	80	67	—	5	Cu	3	81	14	083	249 11.5
2100			SCT	7	1009.8	80	67	—	5	Cu	3	81	14	080	249 11.5
2200			SCT	7	1010.2	80	67	—	4	Cu	3	81	12	080	249 10.0
2300			SCT	7	1010.5	80	67	—	3	Cu	3	81	12	080	249 10.0
2400			SCT	7	1010.2	80	67	—	3	Cu	3	81	12	080	249 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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 18 OCT 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	7	1009.8	80	70	—	4	Cu	2	81	8	050	260 / 10.0
0200			SCT	7	1009.1	80	70	—	4	Cu	2	81	8	050	249 / 10.0
0300			SCT	7	1009.1	80	70	—	4	Cu	2	81	8	050	240 / 10.0
0400			SCT	8	1008.8	80	72	—	3	Cu	2FT	81	8	050	240 / 10.1
0500			"	9	1009.6	80	71	—	3	Cu	2FT	81	8	050	240 / 10.1
0600			"	10	1009.8	80	70	—	3	Cu	2FT	81	8	050	240 / 10.1
0700			"	10	1010.2	80	71	—	4	Cu	3FT	81	8	050	230 / 10.5
0800	APPROX MC	KEAN	"	10	1010.2	80	71	—	4	Cu	3FT	81	8	050	330 / 4.1
0900			"	10	1010.2	80	74	—	4	Cu	3FT	81	8	050	
1000			"	10	1010.2	80	74	—	4	Cu	3FT	81	8	050	
1100			"	10	1010.2	84	74	—	4	Cu	3FT	81	8	050	300 / 4.1
1200	MC KEAN	TS	"	10	1009.8	85	74	—	4	Cu	3FT	81	8	050	050 / 4.1
1300			"	10	1008.5	81	75	—	5	Cu	3FT	81	8	050	330 / 4.1
1400			"	10	1007.5	82	74	—	4	Cu	3FT	81	8	050	330 / 4.1
1500			"	10	1006.5	82	75	—	4	Cu	3FT	81	8	050	355 / 4.1
1600			SCT	10	1006.8	82	72	—	4	Cu	3	81	10	060	350 / 4.1
1700			SCT	10	1006.5	82	71	—	4	Cu	3	81	10	060	150 / 4.1
1800			SCT	10	1007.1	82	71	—	4	Cu	3	81	10	060	355 / 4.1
1900			SCT	10	1007.4	82	71	—	4	Cu	3	81	11	060	010 / 4.1
2000			SCT	7	1009.1	80	72	—	4	Cu	3	81	12	090	345 / 4.1
2100			SCT	6	1009.6	80	72	—	4	Cu	3	81	12	090	355 / 4.1
2200			SCT	7	1009.8	80	72	—	4	Cu	3	81	12	060	345 / 4.1
2300			SCT	7	1010.2	80	72	—	4	Cu	2	81	12	090	155 / 4.1
2400			SCT	7	1009.9	79	72	—	3	Cu	2	81	10	090	340 / 4.1

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

12
10
2360

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 19 Oct '69

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	8	1009.5	79	72	—	2	CU	3FT	81	12	090	340 / 4.1
0200			SCT	8	1008.8	79	70	—	4	CU	3FT	81	14	090	[illegible]
0300			SCT	8	1008.5	79	70	—	4	CU	3-FT	81	12	090	[illegible]
0400			SCT	8	1008.5	79	70	—	4	CU	3 FT	81	12	090	340 / 4.1
0500			SCT	8	1008.5	79	70	—	4	CU	3FT	81	12	090	160 [illegible]
0600			SCT	8	1008.5	79	70	—	4	CU	3FT	81	12	090	160 / 4.1
0700			SCT	9	1009.1	80	68	—	4	CU	3FT	81	12	090	160 / 4.1
0800	WHC term I		SCT	10	1010.5	81	73	—	4	CU	3FT	81	12	090	320 / 4.1
0900			SCT	10	1011.1	81	74	—	3	CU	3FT	81	12	090	240 / 4.1
1000			SCT	10	1010.8	82	73	—	2	CU	3FT	81	12	090	145 / 4.1
1100			SCT	10	1010.5	81	72	—	2	CU	3FT	81	12	090	145 / 4.1
1200			SCT	10	1009.5	83	69	—	3	CU	3	81	15	090	150 4.1
1600 1300			SCT	10	1008.4	80	67	—	3	CU	3 FT	81	15	090	[illegible]
1700 1400			SCT	10	1006.4	80	64	—	4	CU	3FT	81	15	090	350 4.1
1800 1500			SCT	10	1006.5	80	64	—	4	CU	3FT	81	15	090	340 4.1
1600															
1700															
1800															
1900			SCT	7	1006.8	80	69	—	4	CU	3FT	81	15	090	350 - CA. 1
2000			SCT	7	1007.3	80	64	—	3	CU	3FT	81	14	085	335 / 4.1
2100			SCT	7	1007.5	80	64	—	3	CU	3FT	81	14	090	150 / 4.1
2200			SCT	8	1008.1	79	68	—	4	CU	3FT	81	12	090	335 / 4.1
2300			SCT	7	1008.9	79	68	—	3	CU	3FT	81	12	090	160 / 4.1
2400			SCT	7	1007.3	79	68	—	3	CU	3FT	81	12	090	145 / 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 20 OCT 62

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	7	1006.8	79	68	—	3	CU	2 FT	81	1-2	100	155 / 4.1
0200			SCT	7	1006.8	79	68	—	3	CU	2 FT	81	12	100	340 / 4.1
0300			SCT	7	1005.8	79	68	—	3	CU	2 FT	81	12	100	350 / 4.1
0400	11° 45 N	25	SCT	7	1006.1	80	69	—	4	CU	2 FT	82	12	100	160 / 4.1
0500			SCT	7	1006.5	80	69	—	4	CU	2 FT	81	12	100	160 / 4.1
0600			SCT	8	1006.8	80	69	—	4	CU	2 FT	81	12	100	160 / 4.1
0700			SCT	10	1007.8	80	69	—	2	CU	2 FT	81	12	100	000 / 4.1
0800			SCT	10	1008.5	82	69	—	3	CU	3	81	14	140	350 / 4.1
0900			SCT	10	1008.5	82	69	—	3	CU	3	81	14	140	350 / 4.1
1000			SCT	10	1008.5	82	67	—	2	CU	3	81	13	140	015 / 4.1
1100			SCT	10	1007.8	82	67	—	3	CU	3	81	13	140	160 / 4.1
1200			SCT	10	1007.1	83	69	—	4	CU	3	81	14	140	145 / 4.1
1300			SCT	10	1006.4	82	69	—	3	CU	3	81	14	140	230 / 4.1
1400			SCT	10	1005.4	83	69	—	3	CU	3	81	12	140	210 / 4.1
1500			SCT	10	1005.1	83	69	—	3	CU	3	81	14	140	135 / 4.1
1600			SCT	10	1004.4	80	70	—	3	CU	3	81	15	080	350 / 4.0
1700			SCT	10	1004.4	83	69	—	3	CU	3FT	81	16	085	190 / 4.1
1800			SCT	10	1004.7	81	70	—	3	CU	3FT	81	17	080	340 / 4.1
1900			BKN	7	1005.4	80	69	—	8	SC	3FT	81	17	095	210 / 4.1
2000			BKN	5	1005.9	80	69	—	5	SC	3FT	81	17	095	332 / 4.1
2100			BKN	5	1005.9	82	69	—	5	SC	3FT	81	17	095	355 / 4.1
2200			BKN	7	1006.4	80	69	—	8	SC	3FT	81	17	095	018 / 4.1
2300			BKN	7	1006.8	80	69	—	8	SC	3FT	81	17	095	155 / 4.1
2400			BKN	7	1006.8	81	69	—	8	SC	3FT		17	095	340 / 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 1 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700															
0800															
0900															
1000															
1100	14 25	30	~~FU~~ BR	10	1010.5	85	78	—	7	ST/CU	10	83	14	350	270 / 10 KTS
1200	14 15	30	BKN	10	1009.8	85	78	—	10	ST/CU	10	83	14	350	270 / 10 KTS
1300	14 055	170 30	BKN	10	1009.1	84	76	—	10	ST/CU	10	84	12	340	090 / 11
1400	13 55	30	BKN	10	1008.5	85	74	—	7	ST/CU	10	84	13	340	11 / 11
1500	45	31	BKN	10	1008.1	85	74	—	7	ST/CU	10	84	9	160	11 / 11
1600	35	31	BKN	10	1007.5	85	72	—	8	ST/CU	3	84	9	160	11 / 11
1700	25	31	BKN	10	1007.8	85	72	—	9	ST/CU	3	84	9	160	11 / 11
1800	16	32	BKN	10	1008.5	85	73	—	9	ST/CU	3	84	9	010	11 / 11
1900	13 08	170 32	BKN	5	1009.1	85	72	—	9	ST/CU	3	84	9	010	11 / 11
2000	12-56.7S	170-32.3W	BKN	5	1009.5	86	74	—	8	ST/CU	3	83	9	010	11 / 13 KTS
2100			BKN	5	1009.8	88	77	—	10	ST/CU	5	85	9	010	11 / 11
2200			BKN	5	1010.2	88	77	—	9	ST/CU	5	85	10	065	11 / 11
2300			BKN	5	1010.2	88	77	—	9	ST/CU	5	85	10	065	11 / 11
2400			BKN	5	1009.8	88	76	—	8	ST/CU	5	85	10	065	11 / 11

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2 NOV 60

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700															
0800															
0900															
1000															
1100															
1200							69								
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3 NOV 61

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1007.1	83	69	—	3	Cu	3	85	8	071	000 14.7
0200			SCT	5	1006.4	83	67	—	3	Cu	3	85	8	070	000 14.7
0300			SCT	5	1005.8	83	67	—	2	Cu	3	85	11	070	000 14.7
0400			SCT	5	1005.8	81	68	—	3	Cu	3	85	12	090	000 14.7
0500			SCT	5	1006.1	81	68	—	4	Cu	3	85	12	090	000 14.7
0600			SCT	10	1006.5	84	68	—	6	Cu	4	85	14	070	000 14.7
0700			SCT	10	1007.5	82	69	—	6	Cu	4	85	14	070	354 14.7
0800	05°28.4'S	170°32.9'W	SCT	10	1007.8	84	69	—	6	Cu	4	85	14	070	350 14.7
0900	-15	35	BKN	10	1005.1	84	69	—	5	Cu	3	85	15	060	354 14.3
1000	-02	38	BKN	10	1004.1	85	69	—	5	Cu	3	85	15	060	354 14.3
1100	-49	42	BKN	10	1003.8	85	69	—	5	Cu	3	85	15	060	354 14.3
1200	04-41.5'S	170-46'W	SCT	10	1004.4	85	69	—	5	Cu	3	85	15	060	354 14.3
1300			SCT	10	1005.8	85	69	—	5	Cu	3	85	15	060	003 14.3
1400			SCT	10	1005.1	85	69	—	5	Cu	3	85	15	060	003 14.3
1500			SCT	10	1004.8	85	67	—	5	Cu	3	85	15	090	003 14.3
1600			BKN	6	1004.7	85	69	—	6	Cu	3	85	15	060	356 14.3
1700	Phoenix Is		BKN												
1800			BKN	10	1005.4	81	66	—	6	Cu	3	85	12	070	PRUFING
1900			BKN	8	1005.8	81	66	—	6	Cu	3	85	12	07	340 4.1
2000	03-43.5'S	170-44.5'W	BKN	7	1006.4	81	66	—	6	Cu	3	85	12	070	340 4.1
2100			BKN	7	1007.0	81	66	—	6	Cu	3	85	12	070	340 4.1
2200			BKN	7	1007.1	80	66	—	6	Cu	3	85	13	070	340 4.1
2300			BKN	7	1007.1	80	66	—	6	Cu	3	85	12	070	010 4.1
2400			BKN	5	1006.1	80	66	—	6	Cu	3	85	12	070	010 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE Wed. 21 Oct

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	5	1006.8	80	66	—	7	Cu	5/0	85	12	090	090 4.1
0200			BKN	5	1006.4	80	66	—	5	Cu	2/3	85	12	090	090 4.1
0300			BKN	5	1006.4	80	66	—	7	Cu	0/3	85	12	090	090 4.1
0400			BKN	5	1006.6	79	67	—	7	Cu	0/3	85	11	067	176 4.1
0500			BKN	5	1007.1	79	67	—	7	Cu	0/3	85	12	065	350 4.1
0600			BKN	10	1007.7	79	67	—	7	Cu	0/3	85	12	065	355 8.3
0700			BKN	10	1008.1	79	67	—	6	Cu	0/3	85	12	065	175 4.1
0800	03-55S	170-44.8W	BKN	10	1008.5	83	67	—	5	Cu	0/3	85	12	065	035
0900			BKN	10	1008.4	81	65	—	5	Cu	0/3	85	12	065	DRIFTING
1000			BKN	10	1009.1	83	65	—	5	Cu	0/3	85	12	065	
1100			BKN	10	1009.1	82	66	—	5	Cu	0/3	85	12	065	150 4.1
1200	Phoenix	Is	BKN	10	1008.1	83	66	—	5	Cu	0/3	85	12	065	132 4.1
1300	03-43S	170-45.7W	BKN	10	1007.8	83	66	—	5	Cu	0/3	85	12	065	090 4.1
1400			BKN	10	1007.1	83	66	—	6	Cu	0/3	85	12	065	135 4.1
1500			BKN	10	1006.5	82	66	—	7	Cu	0/3	85	12	065	090 4.1
1600			BKN	10	1006.5	82	66	—	10	Cu	0/3	85	12	065	DRIFTING
1700			BKN	10	1006.5	80	66	—	6	Cu	0/3	85	12	065	090 4.1
1800			BKN	10	1006.4	81	66	—	6	Cu	0/3	85	12	065	340 4.1
1900			BKN	10	1006.5	81	66	—	6	Cu	0/3	85	12	065	166 4.1
2000	03-44.2S	170-44.5W	BKN	5	1007.1	80	65	—	6	Cu	0/3	86	12	065	340 4.1
2100			BKN	5	1007.5	80	65	—	6	Cu	0/3	86	12	065	160 4.1
2200			BKN	5	1007.5	80	65	—	5	Cu	0/3	86	12	065	155 4
2300			BKN	5	1007.5	80	65	—	5	Cu	0/3	86	10	065	090 4.1
2400			BKN	5	1007.1	80	65	—	3	Cu	0/3	85	10	065	160 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 5 [illegible] 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1006.0	86	66	—	3	Cu	085/3	86	05/3	015	140 4.1
0200			SCT	5	1006.4	86	66	—	3	Cu	085/3	86	8	015	000 4.1
0300			SCT	5	1006.8	86	66	—	3	Cu	085/3	86	8	015	000 4.1
0400			SCT	5	1006.1	86	66	—	4	Cu	085/3	86	8	015	170 4.1
0500			SCT	5	1006.8	86	66	—	4	Cu	085/3	86	8	015	000 4.1
0600			SCT	5	1007.1	86	66	—	4	Cu	085/3	86	8	015	160 4.1
0700			SCT	5	1007.8	86	66	—	4	Cu	085/3	86	8	015	340 4.1
0800	03-44.2S	170-44.8W	SCT	10	1008.3	82	66	—	5	Cu	070/3	86	12	110	000 4.1
0900			SCT	10	1008.5	82	66	—	5	Cu	070/3	86	12	110	150 4.1
1000			SCT	10	1008.5	82	66	—	5	Cu	070/3	86	11	110	000 4.1
1100			SCT	10	1008.1	82	66	—	5	Cu	070/3	86	11	110	100 4.1
1200	03-45S	170-46W	SCT	10	1007.1	83	67	—	6	Cu	070/3	86	11	110	150 4.1
1300			SCT	10	1006.8	81	65	—	5	Cu	070/3	86	12	110	340 4.1
1400			SCT	10	1006.5	84	65	—	5	Cu	070/3	86	12	110	140 4.1
1500			SCT	10	1005.9	84	65	—	6	Cu	070/3	86	12	110	155 4.1
1600			SCT	10	1005.1	84	65	—	6	Cu	080/3	86	10	100	350 4.1
1700			SCT	10	1005.1	85	65	—	6	Cu	080/3	86	10	100	340 4.1
1800			BKN	10	1005.1	85	65	—	6	Cu	080/3	86	10	100	150 4.1
1900			BKN	5	1006.1	85	65	—	6	Cu	080/3	86	10	100	S-45 4.1
2000	03-43S	170-44W	BKN	5	1007.1	82	66	—	6	Cu	080/3	86	10	110	145 4.1
2100			SCT	5	1007.3	82	66	—	3	Cu	080/3	86	11	110	000 4.1
2200			SCT	5	1007.5	82	66	—	3	Cu	080/3	86	11	110	000 4.1
2300			SCT	5	1007.8	80	65	—	4	Cu	080/3	86	12	110	160 4.1
2400															

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 6 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1007.1	80	65	—	4	Cu	080/3	86	12	110	160 4.1
0200			SCT	5	1006.4	80	65	—	5	Cu	080/3	86	12	110	145 4.1
0300			SCT	5	1005.8	80	65	—	5	Cu	080/3	86	12	110	350 4.1
0400			BKN	5	1005.8	80	65	—	3	Cu	090/3	86	10	105	150 4.1
0500			SCT	5	1006.4	80	65	—	2	Cu	090/3	86	10	105	345 4.1
0600			SCT	10	1006.4	80	65	—	3	Cu	090/3	86	10	105	345 4.1
0700	03-43.5 S	170-43.1 W	BKN	10	1006.8	80	65	—	5	Cu	090/3	86	10	105	025 4.1
0800	Phoenix	Island	SCT	10	1006.8	80	65	—	5	Cu	090/3	86	10	105	028 4.1
0900			SCT	10	1007.5	80	65	—	5	Cu	090/3	86	10	105	028 4.1
1000			SCT	10	1007.1	80	65	—	5	Cu	090/3	86	10	105	350 4.1
1100			SCT	10	1006.8	86	74	—	5	Cu	080/4	86	10	070	340 4.1
1200	03-44.5 S	170-44.7 W	BKN	10	1006.1	83	67	—	6	Cu	080/4	86	9	092	160 4.1
1300			BKN	10	1005.4	83	67	—	6	Cu	080/4	86	9	092	000 4.1
1400			BKN	10	1004.7	83	67	—	6	Cu	080/3	86	9	092	000 4.1
1500			BKN	10	1004.4	84	67	—	6	Cu	080/3	86	8	090	160 4.1
1600			BKN	10	1004.1	82	67	—	6	Cu	080/3	86	8	090	155 4.1
1700			BKN	10	1004.1	81	68	—	6	Cu	080/3	86	10	090	355 4.1
1800			SCT	10	1004.4	82	68	—	4	Cu	080/3	86	10	090	150 4.1
1900			BKN	7	1005.4	81	68	—	6	Cu	090/3	86	10	090	150 4.1
2000	03-45 S	170-45 W	BKN	5	1005.9	81	68	—	6	Cu	080/3	86	10	090	140 4.1
2100			BKN	5	1005.9	81	68	—	6	Cu	080/3	86	10	090	140 4.1
2200			BKN	5	1006.4	81	68	—	6	Cu	080/3	86	10	090	000 4.1
2300			BKN	5	1006.4	80	68	—	6	Cu	080/3	86	10	090	350 4.1
2400			BKN	5	1005.8	80	67	—	6	Cu	080/3	86	10	090	350 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 7 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1005.1	80	67	—	3	Cu	080/3	86	9	090	000 4.1
0200			SCT	5	1004.7	80	67	—	3	Cu	080/3	83	9	090	155 4.1
0300	Phoenix	Is	SCT	5	1005.1	80	67	—	5	Cu	080/3	83	10	090	155 4.1
0400			SCT	5	1004.4	80	67	—	5	Cu	050/3	83	10	090	165 4.1
0500			SCT	5	1004.4	80	67	—	5	Cu	050/3	83	10	090	011 4.1
0600			SCT	10	1005.1	80	67	—	6	Cu	080/3	83	10	090	160 4.1
0700			SCT	10	1005.4	80	67	—	4	Cu	080/3	83	10	090	010 4.1
0800	03-43^{S}	170-43^{W}	SCT	10	1006.4	81	67	—	3	Cu	090/3	83	8	100	010 4.1
0900	entering	Birdie Is	SCT	10	1006.4	81	67	—	3	Cu	090/3	83	8	090	010 4.1
1000			SCT	10	1004.4	86	68	—	3	Cu	090/3	83	8	090	273 13.5
1100			SCT	10	1004.1	86	67	—	3	Cu	090/3	83	8	100	273 12.5
1200	03-37.5^{S}	171-20.5^{W}	SCT	10	1007.8	84	65	—	3	Cu	090/3	83	8	100	273 12.5
1300			SCT	10	1004.7	84	68	—	3	Cu	090/3	83	8	100	340 12.5
1400			SCT	10	1004.4	84	68	—	3	Cu	090/3	83	8	100	DRIFTING
1500			SCT	10	1003.8	87	70	—	4	Cu	040/3	83	10	050	350 4.1
1600			SCT	10	1003.7	87	70	—	3	Cu	040/3	83	10	050	120 4.1
1700			SCT	10	1003.7	87	79	—	3	Cu	040/3	83	10	075	135 4.1
1800			SCT	10	1004.8	80	67	—	3	Cu	040/3	83	10	075	155 4.1
1900			SCT	10	1005.1	80	67	—	3	Cu	040/3	83	10	075	135
2000	03-34.2^{S}	171-32.5^{W}	SCT	5	1005.1	84	67	—	2	Cu	040/3	83	12	080	135 4.1
2100			SCT	5	1005.8	80	67	—	2	Cu	045/3	83	12	080	135 4.1
2200			SCT	5	1006.4	80	67	—	2	Cu	040/3	83	12	080	000 4.1
2300			SCT	5	1006.4	80	67	—	2	Cu	045/3	83	12	080	150 4.1
2400			SCT	5	1006.1	80	67	—	2	Cu	045/3	83	12	080	150 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 8 NOV. 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1006.8	80	67	—	4	CU	045/3	83	12	060	145 4.1
0200			SCT	5	1006.5	80	67	—	4	CU	045/3	83	12	060	340 4.1
0300			SCT	5	1006.1	80	67	—	4	CU	045/3	83	12	060	355 4.1
0400			SCT	5	1006.1	80	67	—	3	CU	045/4	83	10	055	150 4.1
0500			SCT	5	1005.8	80	67	—	3	CU	045/4	83	10	055	355 4.1
0600			SCT	10	1006.4	80	67	—	3	CU	045/3	83	10	055	155 4.1
0700			SCT	10	1007.8	82	66	—	3 4	CU	045/3	83	10	055	345
0800	03-35.2S	171-32.5W	SCT	10	1008.5	82	66	—	4	CU	045/3	83	10	055	DRIFTING
0900			SCT	10	1008.1	80	67	—	4	CU	045/3	83	12	055	010 4.1
1000			SCT	10	1007.5	82	66	—	4	CU	045/3	83	10	055	150 4.1
1100			BKN	10	1007.1	82	66	—	3	CU	040/3	83	10	060	150 4.1
1200	03-36S	171-33W	BKN	10	1007.1	82	66	—	6	CU	040/3	83	10	060	150 4.1
1300			BKN	10	1006.5	84	67	—	10	CU	040/3	83	10	060	150 4.1
1400			BKN	10	1006.5	80	67	—	6	CU	040/3	83	10	060	132 4.1
1500			BKN	10	1006.5	84	67	—	6	CU	040/3	83	10	060	DRIFTING
1600			BKN	10	1006.5	84	67	—	6	CU	040/3	83	10	060	145 4.1
1700			BKN	10	1005.8	84	67	—	6	CU	040/3	83	10	060	145 4.1
1800			BKN	10	1006.1	81	66	—	6	CU	040/3	83	9	070	345 4.1
1900			BKN	10	1006.4	81	66	—	6	CU	040/3	83	9	070	175 4.1
2000	03-34S	171-33W	BKN	7	1007.1	81	66	—	6	CU	040/3	83	9	070	150 4.1
2100			BKN	5	1007.5	81	66	—	4	CU	040/3	83	9	070	340 4.1
2200			BKN	5	1007.5	80	67	—	4	CU	040/3	83	9	070	345 4.1
2300			BKN	5	1007.5	80	67	—	4	CU	040/3	83	10	070	145 4.1
2400			SCT	5	1007.8	79	67	—	2	CU	045/3		8	075	145 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE Monday 9, NOV. 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	BERNE	FS	SCT	5	~~29.74~~ 1007.1	80	67	—	4	cu	3	83	8	075	155 4.1
0200	"	"	SCT	5	1006.8	80	67	—	4	Cu	3	83	8	075	155 4.1
0300	"	"	SCT	5	1006.5	80	67	—	4	cu	3	83	8	075	155 4.1
0400	"	"	SCT	5	1006.5	80	67	—	4	Cu	3	83	8	075	340 4.1
0500	"	"	SCT	5	1007.1	80	67	—	4	Cu	3	83	8	075	150 4.1
0600	"	"	SCT	5	1007.8	80	67	—	4	Cu	3	83	8	075	125 4.1
0700	"	"	SCT	10	1008.8	80	67	—	4	Cu	3	83	8	075	355 4.1
0800	03-35.5 S	171-31.5 W	SCT	10	1009.1	81	66	—	5	Cu	3	83	12	090	355 4.1
0900			SCT	10	1009.5	83	65	—	5	Cu	3	83	13	095	044 12.5
1000			SCT	10	1009.5	84	67	—	5	Cu	3	83	13	095	044 12.5
1100			SCT	10	1009.1	84	67	—	5	Cu	3	83	12	095	044 12.5
1200	03-09 S	171 09 W	SCT	10	1008.5	80	68	—	5	Cu	3	83	14	095	075
1300	Enderbury I S		SCT	10	1007.5	80	65	—	5	Cu	3	83	12	095	DRIFTING
1400			SCT	10	1007.1	83	65	—	5	Cu	3	83	12	095	002
1500			SCT	10	1006.2	84	68	—	5	Cu	3	83	12	095	165
1600			BKN	10	1006.1	84	68	—	5	Cu	3	83	8	100	150 4.1
1700			BKN	10	1006.8	85	68	—	6	Cu	3	83	8	095	020 4.1
1800			BKN	10	1007.5	85	68	—	6	Cu	3	83	8	080	000 4.1
1900			BKN	10	1007.8	85	68	—	6	Cu	3	83	8	080	175 4.1
2000	03-06.5 S	171-08.5 W	SCT	5	1008.1	80	65	—	4	Cu	3	83	7	080	000 4.1
2100			SCT	5	1009.1	80	65	—	4	Cu	3	83	7	080	160 4.1
2200			SCT	5	1009.1	80	65	—	3	Cu	3	83	7	080	150 4.1
2300			SCT	5	1009.1	80	65	—	3	Cu	3	83	8	085	015 4.1
2400			SCT	5	1009.1	80	65	—	4	Cu	3	83	8	085	175 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE TUE. 10 NOV. 1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1008.5	80	65	—	4	Cu	3	83	8	085	015 4.1
0200			SCT	5	1008.1	80	65	—	4	Cu	3	83	8	085	175 4.1
0300			SCT	5	1007.8	80	65	—	4	Cu	3	82	8	085	170 4.1
0400	ENDEAVOUR IS		SCT	5	1007.5	79	65	—	3	Cu	3	82	4	090	160 4.1
0500			SCT	5	1007.8	79	65	—	3	Cu	3	82	4	090	000 4.1
0600			SCT	7	1008.5	79	65	—	3	Cu	3	82	4	090	180 4.1
0700			BKN	10	1009.1	80	65	—	6	Cu	3	82	4	090	160 4.1
0800	03-08.5 S	171-07.5 W	BKN	10	1009.4	80	65	—	6	CU	3	82	4	090	065 4.1
0900			BKN	10	1009.8	80	65	—	6	CU	3	82	4	090	182 4.1
1000			BKN	10	1009.4	80	65	—	6	CU	1	82	4	090	015 4.1
1100			BKN	10	1008.5	80	65	—	6	Cu	1	82	4	090	180 4.1
1200	03-06.7 S	171-07.8 W	BKN	10	1007.8	81	68	—	6	Cu	1	82	6	050	010 4.1
1300			BKN	10		83	68	—	6	Cu	1	82	6	050	015 4.1
1400			BKN	10		84		—	6	Cu	1	83	6	050	170 4.1
1500			BKN	10		84		—	6	Cu	1	83	7	050	000 4.1
1600			BKN	10	1005.4	89	69	—	6	Cu	1	83	8	050	120 4.1
1700			BKN	10	1005.8	83	67	—	6	Cu	1	83	10	050	000 4.1
1800			BKN	10	1006.4	82	67	—	7	Cu	1	83	8	025	170 4.1
1900			BKN	10	1006.4	82	67	—	7	Cu	1	83	8	075	170 4.1
2000	03-07.2 S	171-07.7 W	BKN	10	1006.9	82	67	—	7	Cu	1	83	8	025	150 4.1
2100			BKN	5	1007.5	82	67	—	7	Cu	1	83	8	070	005 4.1
2200			BKN	5	1007.5	82	67	—	7	Cu	1	83	8	075	140 4.1
2300			BKN	5	1007.6	82	67	—	7	Cu	1	83	8	075	005 4.1
2400			SCT	5		82	67	—	5	Cu	1	83	7	070	175 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE WED 11 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1007.1	79	76	—	2	Cu	1	83	7	050	010 4.1
0200			SCT	5	1006.8	79	76	—	2	Cu	1	83	7	050	180 4.1
0300			SCT	5	1006.4	79	76	—	2	Cu	2	83	7	050	010 4.1
0400			SCT	5	1006.8	79	66	—	3	Cu	2	83	8	050	005 4.1
0500			SCT	5	1007.1	79	66	—	3	Cu	2	83	8	050	200 4.1
0600			SCT	10	1007.8	79	66	—	4	Cu	2	83	8	050	020 4.1
0700			SCT	10	1008.3	80	65	—	3	Cu	2	83	8	050	170 4.1
0800	Eniwetok	Is.	SCT	10	1009.1	80	65	—	3	Cu	2	83	6	040	Lying to off Island
0900	03-08.8 N	171-07.8 E	SCT	10	1009.1	83	65	—	2	Cu	2	83	6	040	010 4.1
1000			SCT	10	1009.1	82	65	—	3	Cu	2	83	6	040	170 4.1
1100			SCT	10	1008.3	82	65	—	5	Cu	2	83	6	040	170 4.1
1200	03-07.6 S	171-07.7 E	SCT	10	1007.5	80	65	—	5	Cu	2	83	10	040	350 4.1
1300			SCT	10	1006.8	80	65	—	5	Cu	2	83	10	040	165 4.1
1400			SCT	10	1005.4	81	66	—	5	Cu	2	83	12	040	180 4.1
1500			SCT	10	1005.4	81	66	—	5	Cu	3	83	09	040	170 4.1
1600		90	SCT	10	1005.8	80	65	—	5	Cu	3	83	8	040	
1700															
1800			SCT	10	1005.8	80	65	—	5	Cu	3	83	8	080	350 4.1
1900			SCT	7	1006.4	83	68	—	6	Cu	2	83	8	080	180 4.1
2000	03-08.8 S	171-07.5 W	BKN	5	1007.1	80	67	—	7	Cu	2	83	10	090	015 4.1
2100			SCT	5	1007.4	80	67	—	5	Cu	2	83	10	090	165 4.1
2200			SCT	5	1007.8	80	67	—	3	Cu	2	83	10	090	015 4.1
2300			SCT	5	1007.8	80	67	—	2	Cu	2	83	10	090	015 4.1
2400			SCT	5	1007.4	80	67	—	2	Cu	2	83	10	090	015 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE THURSDAY 12 NOV. 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1012.8	80	67	—	4	CU	020/1	83	10	040	175 4.1
0200			SCT	5	1005.8	80	67	—	4	CU	020/1	83	10	040	005 4.1
0300			SCT	5	1005.8	80	67	—	4	CU	020/1	83	10	040	170 4.1
0400			SCT	5	1005.8	80	67	—	4	CU	020/2	83	10	030	005 4.1
0500			SCT	5	1006.8	80	67	—	4	CU	020/2	83	8	030	005 4.1
0600			SCT	10	1006.8	79	66	—	5	CU	020/2	83	8	035	000 4.1
0700															
0800	03-08.5 S	171-05.5 W	SCT	10	1008.5	81	66	—	6	CU	020/2	83	8	035	DRIFTING
0900			SCT	10	1008.5	82	67	—	6	CU	020/2	83	8	035	294 11.2
1000			SCT	10	1008.1	82	67	—	5	CU	060/3	84	10	065	294 13.5
1100			SCT	10	1007.5	82	67	—	5	CU	060/3	84	10	065	294 13.5
1200	02-53 S	171-45 W	BKN	10	1006.8	81	67	—	6	CU	050/2	84	12	070	302 13.5
1300			BKN	10	1005.8	82	65	—	6	CU	050/2	84	12	070	015 Hove
1400			BKN	10	1004.8	81	65	—	5	CU	050/2	84	12	070	087 4.1
1500			BKN	10	1004.1	84	65	—	5	CU	050/4	84	12	070	022 13.1
1600			BKN	10	1004.5	84	65	—	6	CU	050/4	84	12	070	079 13.1
1700			BKN	10	1004.5	84	65	—	6	CU	050/4	84	12	070	079 13.1
1800			SCT	10	1004.7	83	67	—	5	CU	090/4	84	12	100	079 13.1
1900			SCT	10	1005.4	82	67	—	5	CU	090/4	84	12	100	079 13.1
2000	02-34.8 S	170-45.5 W	SCT	7	1005.8	82	67	—	5	CU	090/4	84	12	100	075 13.1
2100			SCT	7	1006.4	82	67	—	5	CU	090/5	84	12	100	075 13.1
2200			SCT	7	1007.1	82	67	—	5	CU	090/6	84	12	100	075 13.1
2300			SCT	7	1007.5	82	67	—	5	CU	090/6	84	12	100	075 13.1
2400			SCT	7	1007.4	83	67	—	2	CU	070/4	84	15	070	070 B1.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 13 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100		Advanced Clocks 1 hr + 10 W													
0200	02'30	170-00	SCT	7	1006.8	83	67	—	3	Cu	070/4	84	060/15	050	075 13.1
0300			BKN	7	1006.5	83	67	—	5	Cu	070/4	84	15	050	075 13.1
0400			BKN	5	1006.5	83	67	—	5	Cu	070/4	84	16	050	075 13.1
0500			BKN	5	1006.8	83	67	—	4	Cu	070/4	84	15	050	075 13.1
0600			BKN	5	1007.4	83	67	—	5	Cu	070/4	84	15	050	075 13.1
0700			BKN	10	1008.1	83	67	—	6	Cu	070/4	84	15	050	075 13.1
0800	01-57.8S	169-52.3W	BKN	10	1009.1	83	65	—	5	Cu	070/4	84	18	100	075 13.1
0900			BKN	10	1009.5	84	67	—	8	Cu	070/4	84	18	100	075 13.1
1000			BKN	10	1010.2	84	67	—	8	Cu	070/4	82	20	100	075 13.1
1100			BKN	10	1009.5	84	67	—	8	Cu	070/5	82	20	100	075 13.1
1200	01-53S	168-12W	BKN	10	1009.1	84	74	—	7	Cu	070/6	82	15	100	075 13.1
1300			BKN	10	1008.1	85	75	—	7	Cu	070/6	82	15	100	075 13.1
1400			BKN	10	1007.5	84	76	—	6	Cu	070/6	82	15	100	075 13.1
1500			BKN	10	1006.4	85	78	—	6	Cu	070/6	82	15	100	075 13.1
1600			BKN	10	1005.8	85	78	—	7	Cu	070/6	82	16	090	075 13.1
1700			BKN	10	1005.8	84	76	—	7	Cu	070/6	82	16	090	075 13.1
1800			BKN	10	1006.1	84	76	—	7	Cu	070/6	82	16	090	075 13.1
1900			BKN	7	1006.8	84	76	—	7	Cu	070/6	82	16	090	075 13.1
2000	01-27.2S	166-37.4W	BKN	7	1006.8	82	67	—	7	Cu	070/6	82	16	090	075 13.1
2100			BKN	7	1007.1	82	66	—	7	Cu	070/6	82	16	090	078 12
2200			BKN	7	1007.5	82	64	—	7	Cu	070/6	82	16	090	078 12
2300			BKN	7	1007.8	82	64	—	7	Cu	070/6	82	18	095	078 12
2400			BKN	7	1007.8	82	64	—	7	Cu	070/6	82	18	095	078 12

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE SAT 14 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	7	1007.3	82	64	—	7	Cu	070/6	82	18	085	078 12
0200			BKN	7	1007.1	81	65	—	8	Cu	070/6	82	20	085	078 12
0300			BKN	7	1006.4	81	65	—	8	Cu	070/6	82	20	085	078 12
0400			BKN	7	1006.4	81	65	—	7	Cu	075/6	82	18	090	078 12
0500			BKN	7	1007.1	81	65	—	6	Cu	075/6	82	18	090	078 12
0600			BKN	7	1007.8	81	65	—	6	Cu	075/6	82	18	090	078 12
0700			BKN	10	1008.3	81	65	—	6	Cu	080/6	82	18	090	078 12
0800	01-05.1 S	164-32 W	BKN	10	1007.8	81	65	—	7	Cu	080/6	82	16	090	078 12
0900			BKN	10	1010.2	81	65	—	7	Cu	080/6	82	16	090	078 12
1000			BKN	10	1010.5	81	65	—	7	Cu	080/6	82	16	090	078 12
1100			BKN	10	1010.1	81	65	—	7	Cu	080/5	80	16	090	078 12
1200	00-58.3 S	163-51.5 W	SCT	10	1009.3	82	64	—	5	Cu	080/5	80	16	085	078 12
1300			SCT	10	1008.3	82	64	—	5	Cu	080/5	80	15	085	078 12
1400			SCT	10	1008.5	82	64	—	5	Cu	080/5	80	15	085	078 12
1500			SCT	10	1007.8	83	65	—	5	Cu	080/5	80	15	085	078 12
1600			SCT	10	1007.1	83	65	—	4	Cu	080/5	80	15	085	078 12
1700			SCT	10	1007.1	82	67	—	4	Cu	080/3	80	15	085	078 12
1800			SCT	10	1007.5	81	67	—	4	Cu	085/3	79	14	090	078 12
1900			SCT	10	1007.5	80	67	—	3	Cu	085/3	79	14	090	078 12
2000	00-30 S	162-30 W	BKN	5	1008.5	80	67	—	6	Cu	085/4	79	14	090	078 12
2100			BKN	5	1008.8	80	67	—	6	Cu	085/4	79	14	090	078 10.5
2200			BKN	5	1009.1	80	67	—	6	Cu	085/4	79	14	090	078 10.5
2300			BKN	5	1009.1	80	67	—	6	Cu	085/4	79	14	090	078 10.5
2400			BKN	6	1008.5	80	67	—	6	Cu	085/4	79	14	090	078 10.5

REMARKS:

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

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 15 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	7	1007.5	79	64	—	4	Cu	4	79	17	075	078 10.5
0200			SCT	7	1007.1	79	64	—	4	Cu	4	79	17	075	078 10.5
0300			SCT	7	1006.8	79	64	—	4	Cu	4	79	15	075	078 10.5
0400			SCT	7	1006.4	79	64	—	4	Cu	4	78	20	075	078 10.5
0500			SCT	7	1007.1	80	65	—	4	Cu	4	78	20	075	078 10.5
0600			SCT	8	1007.8	80	65	—	5	Cu	4	78	20	075	078 10.5
0700			SCT	10	1008.5	80	65	—	5	Cu	4	78	20	075	110 10.5
0800	00-05.0S	160-30.0E	BKN	10	1009.1	78	65	—	6	Cu	4	78	15	090	110 10.5
0900			BKN	10	1009.8	78	65	—	6	Cu	4	78	15	090	110 10.5
1000			BKN	10	1009.4	81	67	—	6	Cu	4	79	15	090	085 10.5
1100			BKN	10	1009.1	81	67	—	5	Cu	3	78	10	090	engine to ABF Journals
1200	00-27.6S	160-02.2W	BKN	10	1008.5	81	67	—	8	Cu	2	78	10	090	" " " "
1300			BKN	10	1007.6	81	67	—	8	Cu	2	78	10	090	090 4.1
1400			BKN	10	1007.1	81	67	—	8	SCu	2	78	10	090	160 4.1
1500			BKN	10	1006.4	81	67	—	8	SCu	2	78	10	090	170 4.1
1600			BKN	10	1006.1	84	67	—	6	SCu	2	78	16	100	075 4.1
1700			BKN	10	1006.4	84	70	—	6	SCu	2	78	16	100	125 4.1
1800			BKN	10	1007.1	79	64	—	6	SCu	3	78	16	100	035 4.1
1900			BKN	7	1007.8	78	63	—	6	SCu	3	78	10	100	035 4.1
2000	↑JARVIS	I.S.	SCT	7	1008.1	78	63	—	2	SCu	3	78	10	100	035 4.1
2100	00-22.7S	160-03.5W	SCT	7	1008.5	78	63	—	2	SCu	3	78	10	100	150 4.1
2200			SCT	7	1008.5	78	63	—	3	SCu	3	78	16	100	150 4.1
2300			SCT	7	1008.8	78	63	—	3	SCu	3	78	10	100	150 4.1
2400			SCT	7	1008.1	78	63	—	3	SCu	3	78	10	100	150 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE Monday 16 Nov. 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	6	1007.5	78	68	—	4	Cu	090/4	78	10	100	020 4.1
0200			SCT	6	1006.8	78	63	—	4	Cu	090/4	78	10	100	150 4.1
0300			SCT	6	1006.9	78	63	—	4	Cu	090/4	78	10	100	015 4.1
0400			SCT	6	1006.1	77	62	—	4	Cu	090/4	78	12	080	160 4.1
0500			SCT	6	1006.5	77	62	—	4	Cu	090/4	78	12	082	015 4.1
0600			SCT	10	1007.5	77	63	—	5	Cu	100/3	78	12	080	160 4.1
0700			SCT	10	1007.5	77	63	—	5	Cu	100/3	78	12	080	040 4.1
0800	00-22.3	160-04 W	SCT	10	1008.5	79	64	—	5	Cu	100/3	78	12	080	100 4.1
0900			SCT	10	1008.8	79	64	—	4	Cu	100/3	78	12	080	005 4.1
1000			SCT	10	1009.1	80	65	—	5	Cu	100/3	78	12	080	100 4.1
1100			SCT	10	1008.5	82	67	—	5	Cu	100/3	78	12	080	145 4.1
1200	JARVIS	IS	BKN	10	1007.8	82	67	—	5	Cu	100/3	78	10	090	040 4.1
1300	00-22.3 S	160-02 W	BKN	10	1007.5	81	67	—	5	Cu	100/3	78	10	090	150 4.1
1400			BKN	10	1006.5	81	67	—	5	Cu	100/3	78	10	090	155 4.1
1500			BKN	10	1006.1	81	67	—	5	Cu	100/3	78	10	090	155 4.1
1600			BKN	10	1005.4	81	67	—	5	Cu	100/3	78	10	090	DRIFTING
1700			BKN	10	1006.1	81	67	—	5	Cu	100/3	78	10	090	"
1800			BKN	10	1006.4	81	67	—	6	Cu	100/3	78	10	090	020 4.1
1900			BKN	10	1006.4	81	67	—	6	Cu	100/3	78	10	090	180 4.1
2000	00-22.7	160-03.5 W	BKN	7	1006.8	79	64	—	6	Cu	100/2	79	7	090	140 4.1
2100			BKN	7	1007.1	79	66	—	6	Cu	100/2	79	10	090	055 4.1
2200			BKN	7	1007.8	78	64	—	6	Cu	100/2	79	10	090	155 4.1
2300			BKN	7	1007.8	78	64	—	5	Cu	100/2	79	10	090	015 4.1
2400			BKN	7	1007.8	77	64	—	5	Cu	100/2	79	8	135	075 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 17 NOV-64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	7	1007.8	78	64	—	9	Cu	2	79	8	100	090 4.1
0200			BKN	7	1007.1	78	64	—	8	Cu	2	79	8	100	180 4.1
0300			BKN	7	1007.1	77	64	—	5	Cu	2	79	8	100	020 4.1
0400			BKN	7	1006.4	77	64	—	5	Cu	2	79	8	100	100 4.1
0500			SCT	7	1007.1	77	64	—	5	Cu	2	79	8	100	015 4.1
0600			SCT	7	1008.1	77	64	—	5	Cu	2	79	8	100	170 4.1
0700			BKN	10	1008.8	77	64	—	7	Cu	2	79	8	100	100 4.1
0800	00-22.5S	160-02.5W	BKN	10	1009.1	78	66	—	7	Cu	3	79	10	095	100 4.1
0900			BKN	10	1009.8	79	67	—	7	Cu	3	79	10	095	270 4.1
1000			BKN	10	1009.1	80	68	—	7	Cu	3	79	13	080	160 4.1
1100			BKN	10	1008.5	82	68	—	6	Cu	3	79	13	080	015 4.1
1200	00-22S	160-03W	BKN	10	1008.1	81	68	—	5	Cu	3	79	13	080	085 4.1
1300			BKN	10	1007.1	75	68	—	6	Cu	3	79	13	080	240 4.1
1400			BKN	10	1006.1	78	68	—	6	Cu	3	79	12	050	DR. FUNC.
1500			BKN	10	1004.7	83	70	—	6	Cu	4	79	12	080	130 4.1
1600			BKN	10	1005.1	79	70	—	6	Cu	3	79	10	085	240 4.1
1700			BKN	10	1005.1	79	70	—	6	Cu	3	79	10	085	040 4.1
1800			BKN	10	1006.1	79	70	—	6	Cu	3	79	10	085	140 4.1
1900			BKN	5	1006.6	79	70	—	6	Cu	3	79	10	085	110 4.1
2000	00-21S	160-02.5W	BKN	5		79		—	6	Cu	3	75	10	085	140 4.1
2100			BKN	5		79		—	6	Cu	3	78	10	085	015 4.1
2200			BKN	5		78		—	6	Cu	3	77	10	085	155 4.1
2300			BKN	5		79		—	6	Cu	3	79	10	085	015 4.1
2400			BKN	7	1004.5	77	68	—	5	Cu	3	79	10	050	155 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 15 Nov 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			CLR	7	1008.5	77	67	—	4	Cu	090/3	79	10	085	175 4.1
0200			CLR	7	1008.5	77	67	—	4	Cu	090/3	79	10	085	005 4.1
0300			CLR	7	1007.8	77	67	—	6	Cu	090/3	79	10	085	170 4.1
0400			CLR	7	1007.8	77	67	—	4	Cu	090/3	79	10	090	010 4.1
0500			CLR	7	1007.8	77	67	—	5	Cu	090/3	79	10	090	185 4.1
0600			SCT	8	1008.5	79	67	—	4	Cu	090/3	79	10	090	010 4.1
0700			SCT	10	1009.1	80	67	—	3	Cu	090/3	79	10	090	075 4.1
0800	00-22.5 S	160-02 W	SCT	10	1010.3	80	67	—	3	Cu	090/3	79	10	090	DRIFTING
0900			SCT	10	1010.3	80	67	—	3	Cu	090/3	79	10	090	020 4.1
1000			SCT	10	1010.3	80	67	—	3	Cu	090/3	79	10	090	100 4.1
1100			SCT	10	1010.3	80	67	—	3	Cu	090/3	79	10	090	020 4.1
1200	00-27 S	160-02.5 W	SCT	10	1008.5	80	67	—	5	Cu	085/2	83	11	085	130 4.1
1300			SCT	10	1007.8	79	67	—	5	Cu	085/2	83	11	085	190 4.1
1400			SCT	10	1006.8	79	67	—	3	Cu	085/2	83	11	085	055 4.1
1500			SCT	10	1006.1	79	67	—	3	Cu	085/2	83	11	085	160 4.1
1600			SCT	10	1005.8	78	67	—	3	Cu	085/2	83	8	085	235 4.1
1700			SCT	10	1005.1	80	67	—	4	Cu	085/2	83	8	085	175 4.1
1800			SCT	10	1006.4	79	69	—	5	Cu	085/2	83	8	085	010 4.1
1900			SCT	7	1007.1	77	68	—	6	Cu	085/2	83	12	085	180 4.1
2000	00-23.7 S	160-04 W	SCT	8	1007.4	77	68	—	6	Cu	085/2	83	12	085	020 4.1
2100			BKN	8	1008.1	77	68	—	6	Cu	085/2	83	12	085	150 4.1
2200			BKN	8	1008.1	77	68	—	6	Cu	085/2	83	12	085	020 4.1
2300			BKN	8	1008.5	77	68	—	6	Cu	085/2	83	12	085	020 4.1
2400			BKN	7	1008.5	77	68	—	7	Cu	085/2	83	12	085	170 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE THUR. 19 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	7	1008.1	79	67	—	4	Cu	2	83	8	095	020 4.1
0200			SCT	7	1007.8	79	67	—	4	Cu	2	83	8	095	170 4.1
0300			SCT	7	1007.1	79	67	—	4	Cu	2	83	8	095	020 4.1
0400			SCT	7	1007.4	76	67	—	5	Cu	2	83	8	095	170 4.1
0500			SCT	7	1007.5	76	67	—	5	Cu	2	83	12	095	015 4.1
0600			SCT	8	1007.8	76	67	—	5	Cu	2	83	12	095	020 4.1
0700			SCT	10	1008.5	77	67	—	6	Cu	2	83	12	095	025 4.1
0800	00-22.5S	160-02W	BKN	10	1009.1	77	67	—	6	Cu	2	83	12	090	Mid Ships 4.1
0900			BKN	10	1009.1	77	67	—	6	Cu	2	83	12	090	150 4.1
1000			BKN	10	1009.1	82	68	—	6	Cu	2	83	12	090	180 4.1
1100			BKN	10	1009.1	82	67	—	6	Cu	2	83	12	090	000 4.1
1200	00-22S	160-03W	BKN	10	1008.1	81	68	—	6	Cu	2	83	10	090	122 4.1
1300			BKN	10	1007.5	79	69	—	10	Cu	2	83	10	090	010 4.1
1400			BKN	10	1007.4	79	69	—	6	Cu	2	83	10	090	150 4.1
1500			BKN	10	1006.8	79	69	—	6	Cu	2	83	10	090	000 4.1
1600			BKN	10	1006.4	79	69	—	6	Cu	2	83	8	090	030 4.1
1700			BKN	10	1006.4	79	69	—	6	Cu	2	83	8	090	170 4.1
1800			BKN	10	1006.8	78	69	—	6	Cu	2	83	10	090	015 4.1
1900			BKN	8	1006.4	78	69	—	7	Cu	2	83	10	090	170 4.1
2000	00-21.5S	160-03.2W	BKN	7	1007.1	78	69	—	6	Cu	2	83	10	090	025 4.1
2100			BKN	7	1007.8	77	69	—	6	Cu	2	83	10	090	100 4.1
2200			BKN	7	1007.8	77	69	—	5	Cu	2	83	10	090	160 4.1
2300			BKN	7	1007.8	77	69	—	5	Cu	2	83	10	090	190 4.1
2400			BKN	7	1007.8	77	69	—	5	Cu	2	83	10	090	010 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE Friday 20 November 1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	7	1007.1	77	63	—	5	SC 9	090/2	83	8	090	130 4.1
0200			BKN	10	1006.4	77	63	—	7	SCu	090/2	83	8	090	126 4.1
0300			BKN	10	1006.1	77	63	—	7	Cu	090/2	83	8	090	010 4.1
0400			BKN	6	1006.1	77	62	—	7	Cu	090/2	83	10	090	100 4.1
0500			BKN	10	1006.8	77	62	—	6	Cu	060/2	83	11	060	065 4.1
0600			BKN	10	1007.5	77	62	—	6	Cu	060/2	83	11	060	110 4.1
0700			OVC												
0800			BKN	10	1007.8	77	62	—	6	Cu	060	83	12	060	DR, CT-0.6
0900	10-1 JAN	61-6	BKN	10	1008.5	80	64	—	6	Cu	090/2	83	12	090	090 11.2
1000			BKN	10	1008.5	80	64	—	6	Cu	090/2	83	12	090	0.5C 11.2
1100			BKN	10	1008.1	80	64	—	6	Cu	090/2	83	12	090	0.5C 11.2
1200	00-25'	159-00	BKN	10	1007.5	81	64	—	6	Cu	090/2	84	14	090	0.5C 11.2
1300			BKN	10	1006.4	81	64	—	6	Cu	090/2	84	20	090	090 11.2
1400			BKN	10	1005.8	83	65	—	6	Cu	090/2	85	10	090	0.5C 11.2
1500			BKN	10	1004.7	83	65	—	5	Cu	090/2	85	10	090	0.5C 11.2
1600			BKN	10	1004.7	81	64	—	5	Cu	090/2	85	10	090	0.5C 11.2
1700			BKN	10	1004.7	80	64	—	5	Cu	090/2	85	10	090	0.5C 11
1800			SCT	10	1004.7	80	64	—	5	Cu	090/2	80	11	090	0.5C 11
1900			SCT	10	1005.8	80	64	—	5	Cu	090/2	80	11	090	0.5C 11
2000			SCT	7	1006.4	77	63	—	6	Cu	090/2	80	12	090	0.5C 11.2 8.8
2100			SCT	7	1006.4	77	63	—	6	Cu	090/2	80	12	090	0.5C 11.2 29.4
2200			SCT	7	1006.8	77	63	—	6	Cu	090/2	80	12	090	0.5C 11.2 29.4
2300			SCT	7	1007.1	77	63	—	6	Cu	090/2	80	12	090	0.5C 11 29.4
2400			BKN	7	1006.8	77	63	—	6	Cu	090/2	80	12	090	0.5C 29.4

REMARKS:

Margo

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

Clavarese
Sua
manos

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 21 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	7	1006.4	77	63	—	10	cu	090/2	80	12	100	050 9.4
0200			BKN	7	1006.1	77	63	—	6	cu	090/2	80	12	100	050 9.4
0300			BKN	7	1005.8	77	63	—	5	cu	090/2	80	12	100	050 9.4
0400			BKN	6	1005.8	77	63	—	6	CU	090/2	80	10	100	050 9.2
0500			BKN	6	1005.8	77	63	—	6	CU	090/2	80	10	100	050 9.4
0600			BKN	6	1006.4	77	63	—	6	CU	090/2	80	10	100	020 7.6
0700			BKN	10	1007.5	77	63	—	6	CU	090/2	80	8	100	025 11.2
0800	ENTERED		BKN	10	1008.1	80	60	—	6	CU	090/2	80	10	100	
0900			BKN	10	1008.5	80	60	—	6	CU	090/2		10	100	
1000			BKN	10	1008.1	82	61	—	6	CU	090/1		10	100	
1100			BKN	10	1008.1	82	61	—	6	CU	090/1		10	100	
1200			BKN	10	1007.8	84	61	—	6	CU	110/1		12	110	
1300			BKN	10	1007.5	84	63	—	6	CU	110/1		12	110	
1400			BKN	10	1006.4	86	66	—	6	CU	110/1		12	110	
1500	4°		BKN	10	1005.8	88	68	—	6	CU	110/1		12	110	
1600	—		BKN	10	1005.8	85	68	—	6	CU	110/1		10	110	
1700	5		BKN	10	1005.8	80	67	—	6	CU	110/1		10	110	
1800			BKN	10	1006.4	80	65	—	6	CU	110/1		10	110	
1900			BKN	4	1007.8	78	63	—	6	CU	110/1		10	110	
2000			BKN	4	1008.1	78	63	—	6	CU	110/1		9	070	
2100			BKN	4	1008.5	77	68	—	6	CU	110/1		8	081	
2200			BKN	4	1008.5	78	68	—	6	CU	110/1		813	100	
2300			BKN	4	1009.1	77	70	—	4	CU	110/1		8	080	
2400															

CHRISTMAS ISLAND

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 22 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	4	1006.1	77	63	—	4	Cu	1		5	CNW	
0200			SCT	4	1007.1	76	55	—	3	Cu	1		10	CNW	
0300			SCT	4	1007.1	76	55	—	3	Cu	1		10	CNW	
0400			SCT	4	1007.1	76	63	—	4	Cu	1	—	5	CNW	—
0500			SCT	4	1007.5	76	63	—	4	Cu	1	—	5	CNW	
0600			SCT	4	1008.5	76	63	—	4	Cu	1/2	—	5	CNW	
0700			SCT	10	1009.5	76	63	—	5	Cu	0	—	5	CNW	
0800			SCT	10	1009.5	73	63	—	4	Cu	1/2		5	CNW	
0900			SCT	10	1010.5	72	66	—	4	Cu	1/2		15	CNW	
1000			SCT	10	1010.5	72	67	—	5	Cu	1/2		15	CNW	
1100			SCT	10	1009.1	72	67	—	5	Cu	1/2		13	CNW	
1200			SCT	10	1009.2	69	67	—	5	Cu	1/2		11	CNW	
1300			SCT	10	1009.1	69	70	—	4	Cu	1/2		12	CNW	
1400			SCT	10	1009.1	69	72	—	4	Cu	1/2		12	CNW	
1500			SCT	10	1009.5	71	72	—	4	Cu	1/2		10	CNW	
1600			SCT	10	1009.5	71	70	—	4	Cu	1/2		10	CNW	
1700			SCT	10	1009.5	70	72	—	4	Cu	1/2		12	CNW	
1800			SCT	9	1009.5	73	71	—	4	Cu	1/2		14	CNW	
1900			SCT	5	1009.5	73	69	—	4	Cu/ST	1/2		13	CNW	
2000			SCT	5	1009.5	73	69	—	4	Cu/ST	1/2		13	CNW	
2100			SCT	5	1009.1	71	69	—	4	Cu/ST	1/2		13	CNW	
2200			SCT	5	1009.1	71	69	—	4	Cu/ST	1/2		13	CNW	
2300			SCT	5	1009.1	73	69	—	5	Cu/ST	1/2		13	CNW	
2400			SCT	5	1009.1	73	69	—	5	Cu/ST	1/2		13	CNW	

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 23 Nov. 1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1008.1	77	65		3	CU/ST			10	080	
0200			SCT	5	1008.1	77	67		4	CU/ST			10	080	
0300			SCT	5	1008.1	77	69		4	CU/ST			10	080	
0400			Sct	5	1008.1	78	70		4	Cu/ST			10	080	
0500			Sct	5	1008.1	78	70		4	Cu/ST			10	080	
0600			Sct	6	1009.1	78	68		4	Cu/ST			10	080	
0700			Sct	10	1009.8	78	68		4	Cu/ST			5	030	
0800			Sct	10	1010.5	80	69		5	Cu/ST			13	075	
0900			Sct	10	1009.8	83	70		4	Cu/ST			13	090	
1000			Sct	10	1009.8	83	70		4	Cu/ST			13	090	
1100			Sct	10	1009.8	83	70		4	Cu/ST			13	090	
1200			Sct	10	1009.8	84	70		4	Cu/ST			10	065	
1300			Sct	10	1009.1	85	72		4	Cu/ST			10	070	
1400			Sct	10	1007.8	86	73		4	Cu/ST			10	130	
1500			Sct	10	1007.5	87	75		4	Cu/ST			10	085	
1600			Sct	10	1007.1	87	75		5	Cu/ST			10	180	
1700			Sct	10	1007.1	83	73		3	Cu/ST			12	000	
1800			Sct	10	1007.8	80	71		4	Cu/ST			12	075	
1900			Sct	10	1008.5	79	70		4	Cu/ST			10	180	
2000			Sct	8	1009.1	79	70		3	Cu/ST			8	150	
2100			Sct	4	1009.8	79	70		3	Cu/ST			8	100	
2200			Sct	4	1009.8	79	70		3	Cu/ST			8	085	
2300			Rain	4	1010.5	79	70		3	Cu/ST			8	085	
2400			Sct	4	1010.5	77	69		3	Cu/ST			9	085	

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 11/24/64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.	
0100			SCT	4	1008.5	77	67	—	4	Cu/ST			3	110		
0200			SCT	4	1008.5	77	67	—	4	Cu/ST			3	110		
0300			SCT	4	1008.5	77	67	—	4	Cu/ST			7	085		
0400			SCT	4	1008.5	77	67	—	4	Cu/ST			7	080		
0500			SCT	4	1008.5	77	67	—	4	Cu/ST			7	090		
0600			SCT	10	1008.5	77	67	—	5	Cu/ST			7	110		
0700			SCT	10	1008.5	77	67	—	5	Cu/ST			9	080		
0800			BKN	10	1009.5	79	66	—	7	Cu/ST			10	080		
0900	Left Christmas		SBKN	10	1009.5	80	67	—	7	Cu			10	105		
1000			BKN	10	1009.1	80	67	—	7	Cu	2	80	10	105	313	13.5
1100			BKN	10	1008.8	82	68	—	7	Cu	2	80	10	110	313	13.5
1200	02-21 N	157-58 W	BKN	10	1008.1	80	65	—	7	Cu	2	81	10	110	313	13.5
1300			BKN	10	1007.8	80	65	—	7	Cu	2	81	10	110	313	13.5
1400			BKN	10	1007.1	80	65	—	7	Cu	2	81	10	110	313	13.5
1500			BKN	10	1006.8	80	65	—	7	Cu	2	81	10	110	313	13.5
1600			SCT	10	1006.8	80	67	—	3	Cu	2	80	15	120	313	13.5
1700			SCT	10	1007.1	80	67	—	3	Cu	2	80	15	120	313	13.5
1800			SCT	10	1007.1	79	64	—	3	Cu	2	80	15	120	313	13.5
1900			SCT	7	1007.1	79	64	—	3	Cu	2	80	12	120	313	13.5
2000	Passing Fanning Is.		SCT	7	1007.8	79	64	—	2	Cu	2	80	14	120	317	7.0 kts
2100	23-33 N	159-16 W	SCT	7	1007.8	79	64	—	2	Cu	2	80	14	120	317	7.0 kts
2200			SCT	7	1008.1	79	64	—	2	Cu	2	80	12	120	317	8.8 kts
2300			SCT	7	1008.1	79	64	—	3	Cu	2	80	10	110	317	8.8 kts
2400			SCT	7	1008.8	79	64	—	3	Cu	2	80	10	110	317	8.8 kts

REMARKS:

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

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 25 Nov. 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	~~10~~ 7.5	~~1007.1~~ 1007.9	~~79~~ 79	64	—	10	Cu	105/2	80	8	110	317 8.8
0200			BKN	~~5~~ 7.5	~~1007.1~~ 1007.1	80	67	—	8	Cu	110/2	80	12	130	317 8.8
0300			BKN	5	1006.8	80	67	—	8	Cu	110/2	80	12	130	317 8.8
0400			BKN	5		80		—	8	Cu/ST	110/2	84	10	130	317 8.5
0500			BKN	8		80		—	8	Cu/ST	110/2	84	10	130	310 4.1
0600			BKN	10		79		—	8	Cu/ST	110/2	84	7	135	295 4.1
0700			BKN	10		79		—	8	Cu/ST	110/2		4	135	290 4.1
0800	04-42.5N	160-26W	BKN	10	1008.5	80	65	—	8	Cu/ST	120/2	84	8	140	DRIFTING 4.1
0900			BKN	10	1008.8	83	67	—	8	Cu/ST	130/2	84	10	175	170 4.1
1000			BKN	10	1008.8	83	67	—	8	Cu/ST	130/2	84	12	130	110 4.1
1100	WASHINGTON IS		BKN	10	1008.5	83	67	—	8	Cu/ST	130/2	84	12	130	270 4.1
1200	04-39N	160-25W	BKN	10	1008.1	83	67	—	10	Cu/ST	120/2	80	10	120	090 4.1
1300			BKN	10	1007.1	85	68	—	7	Cu/ST	120/2	80	8	120	090 4.1
1400			BKN	10	1006.1	81	67	—	9	Cu/ST	120/2	80	8	120	090 4.1
1500			BKN	10	1005.1	82	67	—	7	Cu/ST	120/2	84	8	120	100 4.1
1600			BKN	10	1005.1	83	65	—	7	ST/Cu	130/2	84	9	120	000 8.8
1700			BKN	10	1005.8	83	67	—	7	ST/Cu	130/2	84	9	120	000 8.7
1800			BKN	10	1006.4	83	69	—	6	ST/Cu	130/2	84	9	120	090 4.1
1900			BKN	10	1007.5	83	69	—	6	ST/Cu	130/2	84	9	120	120 4.1
2000			BKN	5	1007.8	80	68	—	7	ST/Cu	130/2	84	10	120	265 4.1
2100			BKN	5	1007.8	81	68	—	7	ST/Cu	130/2	84	12	120	270 4.1
2200			BKN	5	1008.5	81	68	—	7	ST/Cu	130/2	84	12	120	090 4.1
2300			BKN	5	1008.5	81	68	—	8	ST/Cu	130/2	84	12	120	090 4.1
2400			BKN	5	1008.5	81	67	—	9	ST/Cu	130/2	84	10	120	270 4.1

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 26 Nov - 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND D	WIND S	SHIP COURSE/SPD.
0100	Washington	I S	BKN	5	1007.5	87	67	—	8	St cu	090/2	84	110	12	090 4.1
0200			BKN	5	1006.5	81	62	—	6	St cu	100/2	84	110	12	270 4.1
0300			BKN	5	1005.1	81	67	—	6	St/cu	100/2	84	100	12	095 4.1
0400			BKN	5	1004.8	78	68	—	6	St/cu	100/2	84	110	12	100 4.1
0500			BKN	5	1007.5	77	68	—	6	St/cu	100/2	84	110	12	270 4.1
0600			BKN	5	1007.5	77	68	—	8	St/cu	100/2	84	110	12	090 4.1
0700			R	10	1008.1	77	68	—	10	St/cu	100/2	84	110	12	090 4.1
0800			BKN	10	1008.1	77	68	—	10	St/cu	100/2	84	110	12	270 4.1
0900			BKN	10	1008.5	79	69	—	10	St/cu	100/2	84	100	10	270 4.1
1000			BKN	10	1008.9	81	70	—	10	St/cu	100/2	84	100	10	270 4.1
1100			BKN	10	1008.1	81	70	—	8	St/cu	100/2	84	110	12	DRIFTING
1200			BKN	10	1007.5	84	71	—	8	St/cu	100/3	84	100	12	160 4.1
1300			BKN	10	1006.8	84	71	—	7	St/cu	100/5	84	100	12	130 4.1
1400			BKN	10	1006.1	81	70	—	7	St/cu	100/5	84	100	12	330 4.1
1500			BKN	10	1005.8	86	67	—	7	St/cu	100/3	84	100	12	135 4.1
1600	Depart Washington IS		BKN	10	1005.8	86	67	—	7	St/cu	100/3	84	100	12	135 4.1
1700			BKN	10	1006.1	82	66	—	6	St cu	100/3	84	100	10	303 9.5
1800			BKN	10	1006.8	82	66	—	6	St cu	100/3	84	100	10	060 3 KTS
1900			BKN	5	1007.5	82	66	—	8	St/cu	100/3	84	100	10	303 8.8 KTS
2000			BKN	5	1007.8	83	73	—	6	St/cu	100/3	84	100	10	303 8.8 KTS
2100			BKN	5	1007.8	83	73	—	6	St/cu	100/3	84	100	10	303 8.8 KTS
2200			BKN	5	1008.5	83	73	—	6	St/cu	100/3	84	100	10	303 8.8 KTS
2300			SCT	5	1008.8	83	73	—	4	St/cu	100/3	84	100	12	303 8.8 KTS
2400			SCT	5	1008.5	83	73	—	4	St/cu	100/3	84	100	12	303 8.8 KTS

REMARKS:

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

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 27 NOV-64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	5	1007.8	82	72	—	3	Cu	12/3	84	12	120	303 8.9 KTS
0200			SCT	5	1007.8	82	72	—	5	Cu	12/3	84	12	120	303 8.9 KTS
0300			SCT	5	1007.1	82	72	—	8	Cu	12/3	84	12	120	303 8.9 KTS
0400			BKN	5	1007.1	81	72	—	7	Cu	11/3	84	10	110	303 8.9 KTS
0500	Sighted Palmyra		BKN	5	1007.5	81	72	—	8	Cu	11/3	84	10	110	303 8.9 KTS
0600			BKN	5	1007.8	81	72	—	9	Cu	11/3	84	10	110	303 8.9 KTS
0700			BKN	10	1008.1	81	72	—	9	Cu	11/3	84	10	110	300 7 KTS
0800			BKN	10	1007.4	81	73	—	9				22	130	
0900			BKN	10	1007.5	82	74	—	8	Cu/St			22	140	
1000			BKN	10	1007.8	84	74	—	8	Cu/St			22	150	
1100			BKN	10	1007.1	84	74	—	7	Cu/St			22	150	
1200			BKN	10	1006.8	85	75	—	7	Cu/St			22	150	
1300			BKN	10	1006.4	86	78	—	7	Cu/St			22	150	
1400			BKN	10	1006.1	86	78	—	7	Cu/St			18	150	
1500			BKN	10	1005.8	86	79	—	7	Cu/St			14	150	
1600			BKN	10	1005.8	88	81	—	7	Cu/St			18	150	
1700			BKN	10	1006.4	87	80	—	7	Cu/St			18	150	
1800			BKN	10	1007.1	85	78	—	8	Cu/St			15	146	
1900			BKN	7	1007.5	82	72	—	7	Cu/St			20	141	
2000			BKN	5	1008.1	83	78	—	7	Cu/St			10	125	
2100			BKN	5	1008.5	83	78	—	7	Cu/St			10	125	
2200			BKN	5	1008.5	83	78	—	7	Cu/St			10	130	
2300			BKN	3	1008.5	83	78	—	7	Cu/St			10	130	
2400			BKN	3	1007.8	82	75	—	7	Cu/St			6	130	

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 28 Nov 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	5	1008.5	82	67	—	7	Cu/St			12	130	
0200			BKN	5	1008.5	82	67	—	7	Cu/St			12	130	
0300			BKN	5	1008.5	82	67	—	7	Cu/St			12	130	
0400			BKN	5	1007.8	82	75	—	7	Cu/St			12	161	
0500			BKN	5	1007.8	82	75	—	7	Cu/St			12	161	
0600			BKN	10	1008.8	82	75	—	8	Cu/St			12	155	
0700			BKN	10	1009.1	83	76	—	8	Cu/St			12	150	
0800			Sct	10	1010.2	83	78	—	4	Cu/St			8	140	
0900			Sct	10	1010.5	84	79	—	3	Cu/St			10	135	
1000			BKN	10	1010.8	85	78	—	7	Cu/St			8	140	
1100			BKN	10	1010.8	86	81	—	6	Cu/St			8	140	
1200			BKN	10	1009.5	86	79	—	6	Cu/St			8	130	
1300			BKN	10	1008.8	86	82	—	6	Cu/St			7	130	
1400			BKN	10	1007.8	86	83	—	7	Cu/St			7	130	
1500			BKN	10	1007.1	88	77	—	7	Cu/St			7	130	
1600			BKN	10	1006.8	89	76	—	7	Cu/St			5	150	
1700			BKN	7	1006.8	90	70	—	8	Cu/St			5	125	
1800			BKN	10	1007.5	87	70	—	8	Cu/St			8	120	
1900			BKN	5	1008.8	85	68	—	8	Cu/St			7	110	
2000			BKN	5	1010.8	83	67	—	7	Cu/St			8	120	
2100			BKN	5	1010.5	82	67	—	6	Cu/St			8	120	
2200			BKN	5	1010.2	81	68	—	7	Cu/St			10	120	
2300			BKN	5	1009.1	83	69	—	7	Cu/St			8	105	
2400			BKN	5	1009.1	83	69	—	7	Cu/St			8	105	

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 29 Nov 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.	
0100			SCT	5	1006.5	83	69	—	3	cu/st	2		12	060		
0200			SCT	5	1007.8	81	68	—	3	cu/st	2		8	005		
0300			SCT	5	1007.1	81	68	—	3	cu/st	2		6	005		
0400			SCT	5	1007.1	81	68	—	3	cu/st	2		13	130		
0500			SCT	5	1007.5	81	68	—	3	cu/st	2		13	130		
0600			R	5	1007.1	83	69	—	1	cu/st	2		15	110		
0700			R	8	1007.8	82	69	—	9	cu/st	2		20	120		
0800			BKN	9	1008.8	83	69	—	8	cu/st	2		20	115		
0900			BKN	10	1009.1	84	68	—	7	cu/st	2		18	110		
1000			BKN	10	1009.1	85	68	—	7	cu/st	2		20	110		
1100			BKN	10	1008.8	85	69	—	6	cu/st	2		20	110		
1200			BKN	10	1007.8	85	67	—	3	cu/st	2		16	110		
1300			OVC	8	1007.1	84	70	—	10	cu/st	2		14	110		
1400			R	3	1007.1	84	70	—	10	cu/st	2		14	110		
1500	Departed Palmyra		BKN	9	1006.1	80	68	—	9	cu/st	090/4	84	10	050	016	106 RPMs
1600			BKN	10	1006.1	84	68	—	8	st/cu	090/4	84	10	050	016	12
1700			BKN	10	1006.1	84	68	—	8	st/cu	090/4	84	10	050	016	12
1800			BKN	10	1006.4	80	70	—	8	st/cu	090/8	83	11	095	016	12
1900			BKN	10	1006.8	80	70	—	6	st/cu	090/8	83	11	095	016	12
2000	06-54.2 N	161-50.2 W	BKN	5	1007.1	80	70	—	8	st/cu	090/8	83	12	095	016	12
2100			BKN	5	1007.5	80	70	—	7	st/cu	090/8	83	12	095	016	12
2200			BKN	5	1007.8	80	70	—	7	st/cu	090/8	83	12	095	016	12
2300			BKN	5	1007.8	80	70	—	7	st/cu	090/8	83	12	095	016	12
2400			SCT	5	1007.8	82	70	—	5	st/cu	090/8	83	14	032	016	13

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-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 30 NOV 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	07'48	161-36	SCT	5	1007.1	82	71	—	4	Sc -	040/8	84	030/14	—	016 13 kts
0200			SCT	5	1006.5	82	71	—	4	Sc	040/8	84	14	130	016 13 KTS
0300			BKN	5	1005.8	82	71	—	6	Sc	040/8	84	14	030	016 13 KTS
0400			BKN	5	1006.1	82	71	—	6	STCu	040/8	84	20	030	016 13 KTS
0500			BKN	5	1006.5	82	71	—	6	STCu	040/8	84	20	030	016 13
0600			BKN	5	1006.3	82	71	—	6	STCu	040/8	84	20	030	016 13
0700			BKN	5	1008.1	82	71	—	8	STCu	040/8	84	20	040	016 13
0800	09-06.4N	161-04W	BKN	10	1008.8	81	66	—	6	STCu	060/8	81	19	035	016 13
0900	-18	33	BKN	10	1009.8	81	66	—	6	STCu	060/8	81	19	035	016 13
1000	-30	31	BKN	10	1009.8	83	65	—	6	STCu	060/8	81	19	050	016 13
1100	-43	31	BKN	10	1009.5	84	67	—	6	STCu	060/8	83	19	050	016 13
1200	09-55.5N	160-57W	BKN	10	1008.8	84	67	—	5	STCu	060/8	81	20	050	016 13
1300	10-09	47	BKN	10	1008.1	84	67	—	5	STCu	060/8	81	21	050	016 13
1400	21	37	BKN	10	1007.8	84	67	—	4	Cu	060/8	81	20	070	016 13
1500	34	29	SCT	10	1007.5	84	65	—	4	Cu	060/8	81	20	070	016 13
1600	10-42N	160-15W	SCT	10	1007.5	84	65	—	3	Cu	060/8	81	15	090	016 13
1700	50	30	BKN	10	1008.5	83	65	—	5	Cu	060/6	81	15	090	016 13
1800	01	35	BKN	10	1009.1	80	65	—	6	CU	060/6	81	15	060	016 13
1900			BKN	5	1009.8	80	65	—	6	CU	060/6	81	15	060	016 13
2000	11-31.8N	160-33.5W	BKN	5	1010.4	80	65	—	6	CU	060/6	81	15	060	016 13
2100			SCT	5	1011.2	80	67	—	3	CU	060/6	81	17	085	019 13
2200			SCT	5	1011.5	80	67	—	3	CU	060/6	81	17	085	019 13
2300			SCT	5	1011.9	80	67	—	3	CU	060/6	81	17	085	019 13
2400			SCT	5	1011.9	80	67	—	3	CU	060/6	81	17	085	019 13

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