

Noon Position: 13-32 N; 171-55 W

SIC 11

SI-MNH-958e  
7-28-64

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

DATE 1 February 1966  
Pg. # 1



|      | time | species             | # | dir. | hgt. | remarks                                     | loc. |
|------|------|---------------------|---|------|------|---|------|
|      | 0651 |                     |   |      |      | SUNRISE: BEGIN DIURNAL OBSERVATIONS.        |      |
|      | 0726 | RFB Booby           | 1 |      |      | imm.  |      |
| TF   | 0742 | " "                 | 1 |      |      | NOT FEEDING                                 |      |
|      |      | Sooty Tern          | 5 |      |      |   |      |
| C    | 0815 | RTTB                | 1 |      |      | adult, collected RSC                        |      |
| C    | 0850 | WTTB                | 1 |      |      | adult, collected JPT                        |      |
| C    | 0958 | Laysan Albatross    | 1 | ⊙    |      | following ship collected Husted & Crossin   |      |
|      | 1010 | Petrel sp           | 1 | ⊙    |      | dark underwing, light belly.                |      |
|      | 1110 | Frigate             | 1 | E    |      |   |      |
|      | 1112 | Kermadec Petrel     | 1 | ⊙    |      | light phase                                 |      |
|      | 1230 | " "                 | 1 | N-NE |      | light phase                                 |      |
| TF   | 1250 | Sooty Tern          | 5 | S-SW |      | dark phase                                  |      |
|      | 1253 | Kermadec Petrel     | 1 | S-SW |      |   |      |
|      | 1340 | Juan Fernandez Pet. | 1 | S-SW |      |   |      |
|      | 1340 | Red-foot Booby      | 1 | ⊙    |      | imm.  |      |
|      | 1452 | " " "               | 1 |      |      | imm. <del>Following</del> Following & hijp. |      |
|      | 1540 | " " "               | 1 |      |      | imm coll. (Thompson)                        |      |
|      | 1745 | " " "               | 1 |      |      | "   |      |
| Leam | 1828 |                     |   |      |      | <u>sunset</u>                               |      |

Midnight Position 11-36N; 172-14W

SI-MNH-958e  
7-28-64

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

DATE 12 Feb. 66  
Pg. # 1



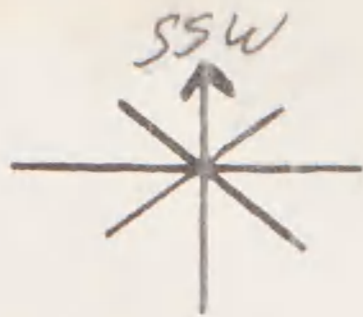
NOCTURNAL

| time            | species          | # | dir. | hgt. | remarks                            | loc. |
|-----------------|------------------|---|------|------|------------------------------------|------|
| 1828            |                  |   |      |      | sunset, begin obs.                 |      |
| 1945            | Bird             | 1 | ☉    |      |                                    |      |
| 2100            | Blue F. Booby    | 1 |      |      | imm. - circled ship                |      |
| 0640            | Booby Sp         | 1 |      |      | close observation at 2130          |      |
| <del>2130</del> | <del>cease</del> |   |      |      | begin at. " 0630                   |      |
| 0656            |                  |   |      |      | Sunrise Begin Diurnal Observations |      |

Noon Position: 9-38N; 173-12W

SI-MNH-958e  
7-28-64

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



DATE 2 Feb 66  
Pg. # 1

|    | time | species        | #   | dir. | hgt. | remarks                         | loc. |
|----|------|----------------|-----|------|------|---------------------------------|------|
|    | 0656 |                |     |      |      | Sunrise begin observations      |      |
|    | 0726 | Pterodroma sp. | 1   | S-SW |      | appears all dark, arc high      |      |
|    | 0824 | B.F. Booby     | 1   | ESE  |      | immature                        |      |
|    | 0837 | sm. Pterod.    | 1   | Ø    |      | either hypoleuca or leucosterna |      |
|    | 1006 | Shear-Pet      | 1   | W    |      |                                 |      |
|    | 1010 | sm Pterod      | 1   | NE   |      |                                 |      |
|    | 1055 | Frigate        | 1   | ⊙    |      |                                 |      |
|    | 1130 | Fairy Tern     | 2   | NE   |      |                                 |      |
|    | 1145 | V.F. Petrel    | 1   | SE   |      |                                 |      |
|    | 1440 | Shear-Petrel   | 1   | W    |      |                                 |      |
|    | 1447 | Sooty tern     | 4   | SE   |      | adults.                         |      |
|    | 1545 | Shear-Petrel   | 1   | SE   |      |                                 |      |
|    | 1635 | Hermadoc Pet.  | 1   | E    |      |                                 |      |
| JF | 1646 | Sooty Tern     | 27  | NNE  |      | Feeding flock                   |      |
| FF | 1648 | "              | 13  | NNE  |      |                                 |      |
|    | 1650 | WTTB           | 1   |      |      | } flying together               |      |
|    |      | RTTB           | 1   |      |      |                                 |      |
| FF | 1725 | Sooty Tern     | 60± | W    |      |                                 |      |
|    |      | Hermadoc Pet   | 1   |      |      |                                 |      |
|    | 1814 | RTTB           | 1   | WNNE |      |                                 |      |
|    | 1827 | Birds          | 2   |      |      |                                 |      |
|    | 1846 |                |     |      |      | Sunset                          |      |

NOON Position: 5-40N; 174-38W.

SI-MNH-958e  
7-28-64

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

DATE 2/3/66  
Pg.# 1



|    | time | species                                | #   | dir. | hgt. | remarks                                  | loc. |
|----|------|--|-----|------|------|--|------|
|    | 0600 |  |     |      |      | Begin observations                       |      |
|    | 0638 | Sooty Terns                            | 2   | NW   |      |  |      |
|    | 0645 |  |     |      |      | Ship passing through rain squall         |      |
|    | 0656 | S                                      |     |      |      | Sunrise                                  |      |
|    | 0658 | W.T. Shearwater                        | 2   | NE   |      | Dark phase                               |      |
|    | 0700 | Storm Petrel                           | 1   | NE   |      | White rump                               |      |
|    | 0705 | Tahit. Petrel                          | 2   | NE   |      | Stabatian/Phoenicist.                    |      |
|    | 0700 | Sooty Tern                             | 1   | NE   |      |  |      |
|    | 0732 | Christmas Is Shearwater                | 1   | ⊙    |      |  |      |
| TF | 0736 | Christmas Is & Wedgetail Shearwater    | 2-3 | ⊙    |      | one light phase - two unknown            |      |
| C  | 0742 | Audubon <sup>Newell's</sup> Shearwater | 1   | W    |      | Collected - flushed from water           |      |
|    | 0800 | Storm Petrel                           | 1   | SE   |      | white rump                               |      |
|    | 0820 | "                                      | 1   | NW   |      | "  |      |
|    | 0825 | Wedge-tail S.                          | 1   | NE   |      | light phase                              |      |
|    | 0830 | Sooty Tern                             | 2   | NW   |      |  |      |
|    | 0845 | Audubon Shearwater                     | 1   | NE   |      |  |      |
|    | 0859 | wedge-tailed Shearwater                | 1   | SSE  |      | dark phase                               |      |
|    | 0906 | Storm Petrel                           | 1   | S    |      | white rump                               |      |
|    | 0908 | Storm Petrel                           | 1   | S    |      |  |      |
|    | 0920 | Shear/petrel                           | 1   | S    |      | probably Xmas Is                         |      |
|    | 0921 | W-t Shear                              | 1   | SSW  |      | dark phase                               |      |
|    | 0922 | W-t Shear                              | 2   | W    |      | dark phase                               |      |
|    | 0935 | Storm Petrel                           | 1   | SSW  |      |  |      |
|    | 0940 | Bulwer's Petrel                        | 2   | WNW  |      |  |      |
|    | 0945 | Noddy Tern                             | 1   | W    |      | in rain squall                           |      |
|    | 0950 | Storm Petrel                           | 1   | NE   |      | white rump.                              |      |
|    | 1017 | Sooty Tern                             | 4   | ⊙    |      | feeding, ad's.                           |      |
|    | 1023 | Storm Petrel                           | 1   | E    |      | white rump.                              |      |
|    | 1026 | " "                                    | 1   | S-SW |      | " "                                      |      |
|    | 1029 | Shear-Pet                              | 1   | W    |      | dark - Xmas Is or dark wedgetail         |      |
|    | 1108 | sooty tern                             | 1   |      |      |  |      |
|    |      | Christmas I. Shear                     | 1   | 2W   |      |  |      |
|    |      | Storm Pet.                             | 2   |      |      | white rump.                              |      |
|    | 1111 | Storm Pet                              | 1   | W    |      | white rump.                              |      |
|    | 1112 | sooty tern                             | 1   | W    |      |  |      |
|    | 1118 | " "                                    | 4   | SSW  |      |  |      |
| TF | 1135 | Christmas Is JFP                       | 4   | NNE  |      | 3 Together 3 Christmas Is. or Wedgetail. |      |

SI-MNH-958e  
7-28-64

Noon Position: 5-40N ; 174-38W

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



DATE Feb 3, 66  
Pg. # 2

|    | time | species                   | #                | dir. | hgt. | remarks                             | loc. |
|----|------|---------------------------|------------------|------|------|-------------------------------------|------|
|    | 1136 | Storm Pet.                | 1                | W    |      | - white rump.                       |      |
| CC | 1140 | Wedgetail                 | 2                | ☉    |      | lk., collected                      |      |
|    | 1140 | Shear-Pet                 | 1                | ☉    |      |                                     |      |
|    | 1210 | WTTB                      | 1                | ☉    |      |                                     |      |
|    | 1210 | Shear-Pet                 | 2                | ☉    |      |                                     |      |
|    | 1214 | Newell's Shear.           | 1                | N-W  |      |                                     |      |
|    | 1216 | Bulwers Pet               | 1                | }    |      | flying together                     |      |
|    |      | WR Storm Petrel           | 1                |      |      |                                     |      |
|    | 1221 | Black-winged Petrel       | 1                | W    |      |                                     |      |
|    | 1222 | Sooty Tern                | 1                | W    |      |                                     |      |
|    | 1225 | W-Rumped Storm Petrel     | 1                | W    |      |                                     |      |
| FF | 1240 | Sooty tern                | 12               |      |      | turna jumping.                      |      |
|    |      | X-mas I. Shear            | 5                |      |      |                                     |      |
|    |      | Wedgetail                 | 1                |      |      | - dark.                             |      |
|    | 1255 | White rumped Storm Petrel | 1                | W    |      |                                     |      |
|    | 1258 | " "                       | 1                | S-SW |      |                                     |      |
|    | 1306 | Petrel                    | 1                | N    |      | either white necked or dark rumped. |      |
|    | 1310 | wedgetail                 | 1                | E    |      | light phase.                        |      |
| TF | 1318 | sooty tern                | 5                | ☉    |      | went high.                          |      |
|    | 1329 | W-rumped Storm Petrel     | 1                | S-SW |      |                                     |      |
| C  | 1340 | sooty tern                | 1                |      |      | coll RSC                            |      |
|    | 1340 | WR St. Petrel             | 2                | ☉    |      |                                     |      |
| C  | 1407 | Wedgetail                 | 2                |      |      | Dark 1 coll RSC.                    |      |
|    | 1420 | " "                       | 4                |      |      | dark                                |      |
|    | 1420 | Bulwers                   | 2                |      |      | "                                   |      |
|    | 1420 | Sooty T.                  | 3                |      |      |                                     |      |
|    | 1420 | Fairy T.                  | 1                |      |      |                                     |      |
|    | 1422 | Audubon's S.              | 1                | SW   |      |                                     |      |
|    | 1440 | Wedgetail                 | 2                | W    |      | dark                                |      |
|    | 1444 | Black W Pet               | 1                | SE   |      |                                     |      |
|    | 1444 | Shear pet                 | 1                | SE   |      |                                     |      |
|    | 1447 | shearwater sp.            | 1                | SE   |      | probably P. puffinus.               |      |
|    | 1448 | sooty tern                | 1                | W    |      |                                     |      |
|    | 1449 | " "                       | 1                | SE   |      |                                     |      |
| C  | 1450 | Leach's storm pet         | 1                |      |      | white rump (coll. J.P.T.)           |      |
| TF | 1502 | JFP                       | 1                | W    |      |                                     |      |
|    | 1502 | Sooty T.                  | 25 <sup>+5</sup> |      |      |                                     |      |
|    |      | Shear-pet                 | 15 <sup>+5</sup> |      |      |                                     |      |
|    | 1505 | Leach's type              | 1                | S    |      |                                     |      |
|    | 1517 | " "                       | 1                | NE   |      |                                     |      |

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AT SEA DAILY LOG -- E

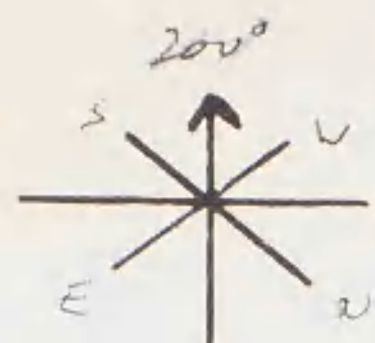
SIC 11



Moon Position: 5-40N; 174-35W

DATE 3 February 1966  
Pg. # 3

|    | time | species                   | #                   | dir. | hgt. | remarks  | loc.                         |
|----|------|---------------------------|---------------------|------|------|--|------------------------------|
| TF | 1530 | Sooty tern                | 100 <sup>±</sup> 25 |      |      | about 25% immature   |                              |
| C  |      | Pterodroma<br>Noddy       | 25 <sup>±</sup> 5   |      |      |  |                              |
|    |      | Wedgetail                 | 25 <sup>±</sup> 5   |      |      | at least 5 light - 1 collected                                 |                              |
|    |      | Leach's type sp.          | 2                   |      |      |  |                              |
|    |      | RTTB                      | 1                   |      |      |  |                              |
| C  | 1550 | Bulwer's Petrel           | 1                   | ⊙    |      |  |                              |
|    |      | wedge-tail                | 1                   |      |      |  |                              |
| C  | 1600 | Leach's Storm Petrel      | 1                   |      |      | sitting in water   |                              |
|    | 1607 | white rumped storm petrel | 1                   | SSW  |      |  |                              |
|    | 1606 | Storm petrel              | 2                   | W    |      | white rump   |                              |
| FF | 1610 | W-r stormlet              | 6                   | S    |      |  |                              |
|    |      | Bulwer's Pet              | 1                   |      |      |  |                              |
|    | 1612 | Sooty Terns               | 2                   | SE   |      | one adult, one immature  |                              |
|    | 1614 | Wedge-tail                | 1                   | NE   |      | dark phase   |                              |
|    | 1615 | Wedge-tail                | 1                   | NE   |      | dark phase   |                              |
|    | 1616 | Wedge-tail                | 2                   | NE   |      |  |                              |
| FF | 1620 | Sooty Tern                | 100 <sup>±</sup> 10 |      |      | 10% imm. Also 3 noted which were between adult & imm. plumage. | 1 ST +<br>1 WTS coll.<br>P19 |
|    |      | Wedge-tail                | 25 <sup>±</sup> 10  |      |      | 3 light  |                              |
|    |      | Common Noddy              | 2                   |      |      |  |                              |
| TF | 1629 | Storm Petrel              | 2                   |      |      | white rump   |                              |
| FF | 1638 | Sooty Tern                | 30 <sup>±</sup>     |      |      |  |                              |
|    |      | Xmas Is. Pet              | 10 <sup>±</sup>     |      |      |  |                              |
|    |      | Wedge-tail                | 25 <sup>±</sup>     |      |      | 2 light phase  |                              |
|    | 1735 | Wedge tail                | 1                   | ⊙    |      | Dark   |                              |
|    | 1735 | Shearwater sp             | 2                   | NE   |      | P. pebbum  |                              |
|    | 1739 | Shear Pet                 | 1                   | ⊙    |      |  |                              |
|    | 1738 | Pterodroma                | 1                   | NE   |      |  |                              |
|    | 1740 | Bulwer's pet              | 1                   | ⊙    |      |  |                              |
|    | 1740 | Storm pet                 | 1                   | ⊙    |      | white rump   |                              |
|    | 1745 | Wedge-tail                | 1                   | NE   |      | dark   |                              |
|    | 1745 | Shearwater                | 1                   | ⊙    |      |  |                              |
|    | 1750 | Storm Pet                 | 3                   |      |      | W-R  |                              |
| C  | 1755 | Bulwer's pet              | 2                   |      |      |  |                              |
| C  | 1800 | Wedge-tail                | 1                   | ⊙    |      | W-R - 1 coll (imm)   |                              |
|    | 1805 | Wedge-tail                | 3                   | ⊙    |      | Coll: (imm) & (imm)  |                              |
|    | 1810 | Bulwer's pet              | 1                   | E    |      |  |                              |
|    | 1820 | Storm Pet                 | 2                   | ⊙    |      | W-R  |                              |
|    | 1830 | " "                       | 2                   | SE   |      | W-R  |                              |
|    | 1851 |                           |                     |      |      | Sunset   |                              |

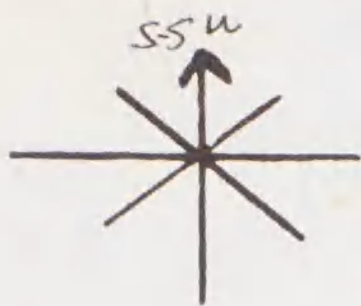


NOON Position: 2-22N; 176-04W

SIC 11

DATE 4 Feb 1966  
Pg.# 1

| time            | species                        | # | dir. | hgt. | remarks   | loc. |
|-----------------|--------------------------------|---|------|------|---|------|
| 0608            |                                |   |      |      | <del>Sunrise (0708 sleep time)</del>                  |      |
| 0700            | Phoenix Is. P.<br>Tahitian     | 1 | 200° |      |   |      |
| 0701            | "                              | 1 | NW   |      |   |      |
| 0704            | Wedge-tail S.                  | 1 | SE   |      | lite phase  |      |
| <del>0708</del> | <del>Sunrise</del>             |   |      |      |   |      |
| 0730            | "                              | 1 | ⊙    |      | "   |      |
| 0737            | "                              | 3 | S-SW |      | 'on H <sub>2</sub> O, 2 light phase, 1 dark phase     |      |
|                 | Bulwer's Pet                   | 1 | "    |      |   |      |
| 0737            | White-rumped<br>Storm Petrel   | 1 | W    |      |   |      |
| 0740            | White-throated<br>Storm Petrel | 1 | N-NE |      | typical kicking flight.                               |      |
| 0741            | Bulwer's Pet                   | 1 | N    |      | coll. M.T.  |      |
| C 0755          | JFP                            | 1 | NE   |      |   |      |
| 0757            | Storm Petrel                   | 1 | SE   |      | white rump  |      |
| 0807            | Leach's type SP                | 1 | SE   |      |   |      |
| 0825            | Sooty Tern                     | 1 | NE   |      | adult.  |      |
| 0840            | Bird                           | 1 | SE   |      |   |      |
| C 0903          | JF Petrel                      | 1 | NE   |      | coll. (BAH)   |      |
| 0920            | JF Petrel                      | 1 | N    |      |   |      |
| 0950            |                                |   |      |      | scattered rain squalls on eastern & western Horizons. |      |
| 1035            | Wedge-tail Storm               | 1 | W    |      | Dark phase  |      |
| 1045            | "                              | 1 | E    |      | dark phase  |      |
| C 1052          | Leach's Storm<br>Petrel        | 1 | E    |      | collected Tordoff + Lewis #1                          |      |
| 1100            | "                              | 1 | E    |      | white rump  |      |
| 1131            | "                              | 1 | E    |      | white rump  |      |
| 1133            | P. epterno                     | 1 | E    |      |   |      |
| 1134            | Xmas Island                    | 1 | SE   |      |   |      |
| 1141            | Storm Pet. 5                   | 5 |      |      | on H <sub>2</sub> O. white rump                       |      |
| 1142            | "                              | 1 |      |      | white rump  |      |
| 1151            | Porpoises                      | 8 | NNE  |      |   |      |
| 1216            | Gray-backed T.                 | 2 |      |      | sitting on log  |      |
| 1255            | R-F Booby                      | 1 | ⊙    |      |   |      |
| C 1310          | "                              | 1 |      |      | shot by M.C. Thompson & R.L. DeLong                   |      |
| "               | Blue-faced B.                  | 1 | SE   |      | Adult   |      |
| "               | Shearwater/Petrel              | 1 | SE   |      | Dark (probably wedgetail)                             |      |
| 1320            | W-T. Tropicbird                | 1 | ⊙    |      |   |      |
| C "             | R.F. Booby                     | 1 |      |      | shot M.C. Thompson                                    |      |
| 1350            | white-rumped<br>storm petrel   | 1 |      |      | sitting on water                                      |      |
| 1405            | Sooty Tern                     | 3 | NE   |      |   |      |
| ⊗ 1440          | Red-footed Booby               | 1 | NNE  |      | immature  |      |

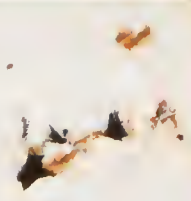


Noon Position: 2-27 N; 176-04 W

DATE 4 February 1966  
Pg. # 2

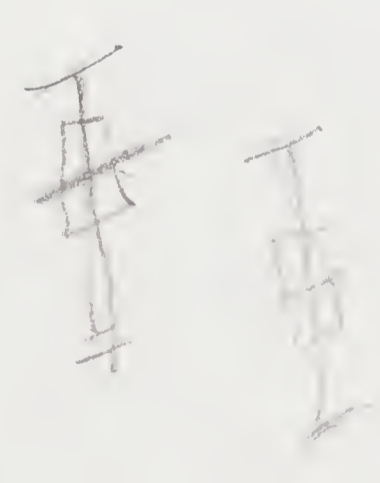
|     | time | species                 | #   | dir. | hgt. | remarks                                      | loc. |
|-----|------|-------------------------|-----|------|------|--|------|
|     | 1430 |                         |     |      |      | put out skiff to work over blocks.           |      |
| FF  | 1448 | sooty terns             | 250 |      |      | 4 coll.                                      |      |
| CCC |      | Lesser Frigaters        | 2   |      |      | 1 coll.                                      |      |
| CCC |      | wedge tail shear pet    | 30  |      |      | alternately feeding and moving to new areas. |      |
| CCC |      |                         | 20  |      |      | 50% light                                    |      |
| CCC | 1455 | wh. rumped Storm Petrel | 2   | ale  |      | 6 coll.                                      |      |
| C   | 1501 | WTTB                    | 2   |      |      | 1 coll. Thompson.                            |      |
|     | 1502 | RTTB                    | 1   | SSW  |      |  |      |
|     | 1620 | Wedgetail               | 4   |      |      | dark phase, 2 coll. Husted skiff             |      |
| C   | 1622 | BF Booby                | 1   |      |      | subad coll. banded. Crossin + Thompson.      |      |
| C   | 1640 | Sack's Storm Petrel     | 1   |      |      | coll. Tordoff                                |      |
|     | 1725 | Storm Petrel            | 1   | ale  |      | white rumps                                  |      |
|     | 1727 | " "                     | 1   |      |      | " "  |      |
|     | 1745 | " "                     | 1   |      |      | " "  |      |
|     | 1745 | sooty tern              | 1   | W    |      | col.   |      |
|     | 1747 | Storm-pet               | 1   | ♂    |      |  |      |
|     | 1810 | wedgetail               | 1   | W    |      | light phase                                  |      |
| C   | 1810 | Bulwers Petrel          | 1   |      |      | coll. Husted skiff                           |      |
|     | 1815 | Storm Petrel            | 1   | N    |      | white rumps                                  |      |
|     | 1819 | Bulwers Petrel          | 1   | NE   |      |  |      |
|     | 1828 | " "                     | 1   | (O)  |      |  |      |
|     | 1830 | shear-pet               | 1   | W    |      |  |      |
|     | 1833 | " "                     | 1   | W    |      |  |      |
|     | 1833 | " "                     | 1   | E    |      | dark phase                                   |      |
|     | 1858 | wedgetail               | 1   |      |      |  |      |
|     | 1900 |                         |     |      |      | sunset - cease Observations.                 |      |

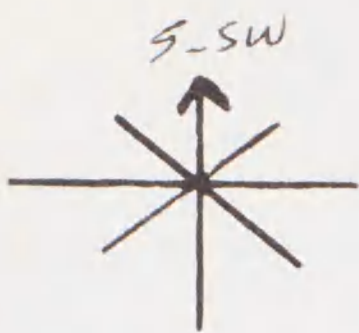




1000 500 300

2010 = 157 (105 ± 1.6)



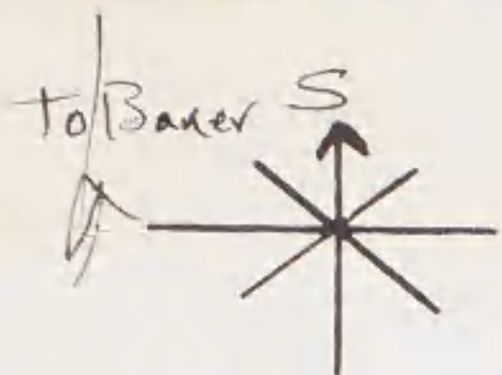


midnight Position: 1-19N; 176-32W

Nocturnal

DATE <sup>5</sup> 4 February 1966  
Pg. # 1

| time                    | species                       | # | dir. | hgt. | remarks   | loc. |
|-------------------------|-------------------------------|---|------|------|---|------|
| 1900                    |                               |   |      |      | Sunset - begin noc obs.   |      |
| 2000                    | Crow or<br>Some other<br>Bird | 1 |      |      |   |      |
| <del>2005</del><br>2005 | Shear pet                     | 1 |      |      |   |      |
| 0240                    | Sooty tern                    | 1 | ⊙    |      |   |      |
| 0313                    | G. Plover                     | 1 | ?    |      |   |      |
| 0630                    | Sooty Tern                    | 1 |      |      | 2 miles off Howland   |      |
| 0658                    |                               |   |      |      | off Howland end nocturnal.  |      |
|                         |                               |   |      |      | roughly 75 <sup>Sooty</sup> terns winging around<br>Howland at Landing-RSC. |      |

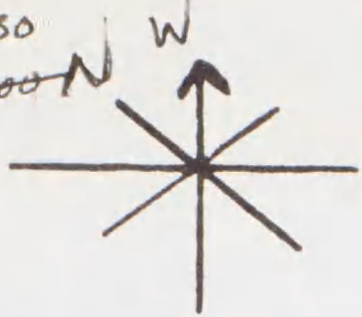


NOON Position: 0-21N, 176-32W

DATE 5 February 1966  
Pg. #

|    | time | species               | #  | dir. | hgt. | remarks  | loc. |
|----|------|-----------------------|----|------|------|--|------|
|    | 0755 |                       |    |      |      | Begin observations - off Howland Island                                  |      |
|    | 0815 | Sooty tern            | 2  | NE   |      | ad's.  |      |
|    | 0816 | Brown Booby           | 1  | SW   |      | ad.  |      |
|    | 0840 | Blue-faced Booby      | 1  | N    |      | imm  |      |
|    | 0845 | "                     | 1  | N    |      | imm  |      |
| TF | 0848 | Sooty Tern            | 45 | S    |      | From Howland   |      |
|    | 0850 | "                     | 1  | S    |      |  |      |
| TF | 0855 | "                     | 8  | SW   |      | From Howland   |      |
|    | 0856 | Shear/Pet             | 1  | SE   |      | on horizon   |      |
|    | 0910 | Wedge-tailed Shear    | 1  | SW   |      | light phase  |      |
|    | 0915 | Sooty Tern            | 2  | W    |      | Ad.  |      |
| BS | 0916 | Red-footed Booby      | 1  | ⊙    |      | Streamlined  |      |
|    | 0917 | Storm Pet             | 1  | E    |      | white rump.  |      |
|    | 0928 | Sooty tern            | 4  | SE   |      | All Adults   |      |
|    | 0930 | "                     | 2  | SE   |      | Adults   |      |
|    | 0933 | BFB                   | 1  | S    |      | Ad - Dick's miss!  |      |
| BS | 0937 | BFB                   | 1  |      |      | Following ship in streamer - following ship and                          |      |
|    | 0938 | Sooty Tern            | 1  | E    |      | Ad. occasionally landing in front  |      |
|    | 0958 | W-Rumped Storm Petrel | 1  | ⊙    |      | of bow on H <sub>2</sub> O, then sticks                                  |      |
|    | 1020 |                       |    |      |      | head beneath H <sub>2</sub> O, obviously                                 |      |
|    | 1029 | Sooty tern            | 1  | W    |      | seeking prey beneath surface.  |      |
|    | 1122 | "                     | 2  | NW   |      | 0950 now constantly in front of bow,                                     |      |
|    | 1130 | "                     | 1  | N    |      | occasionally dives after flying  |      |
|    | 1134 | "                     | 3  | NW   |      | fish and completely submerges,   |      |
|    | 1152 | "                     | 4  | SE   |      | apparently not too skilled at catching                                   |      |
| C  | 1235 | "                     | 2  | NE   |      | prey.  |      |
|    | 1235 | BFB Booby             | 2  | ⊙    |      | 1 Ad. & 1 imm.   |      |
|    | 1242 | Sooty tern            | 2  | S    |      |  |      |
|    | 1300 | Bl-faced Booby        | 1  | S    |      | ad   |      |
|    | 1304 | Red-footed Booby      | 2  | N    |      | Baker about 3/4 to 1 mile off  |      |
|    | 1345 | B-F Booby             | 1  | ⊙    |      |  |      |
|    | 1400 |                       |    |      |      | no observation for Baker landing   |      |
|    | 1445 |                       |    |      |      |  |      |
|    | 1601 | Bulwer's Pet          | 1  | SW   |      | depart Baker, resume obs.  |      |
|    | 1602 | Shear sp              | 1  | W    |      | looked to be the same breed as Curlew shot, = <i>Puffinus puffinus</i> ? |      |
|    | 1626 |                       |    |      |      | whale spouting.  |      |
|    | 1630 | sooty tern            | 1  | N    |      |  |      |

1630  
~~1652~~ ~~1700~~ N



Noon Position: 0-21 W; 176-32 W

DATE 5 February 1966  
Pg. # 2

| time   | species    | # | dir. | hgt. | remarks  | loc. |
|--------|------------|---|------|------|--|------|
| 1637   | BFB        | 1 | W    |      | ad.  |      |
| 1652   |            |   |      |      | change heading to 345°                                   |      |
| 1724   |            |   |      |      | whale (large, brown, thin dorsal fin, ca. 20 ft. length) |      |
| C 1841 | Sooty Tern | 1 |      |      | spouting<br>call notes                                   |      |
| 1905   |            |   |      |      | Sunset & end observations                                |      |

345°

midnight position: 0-48 N; 176-33 W

5-6 Feb

DATE 5 Feb 66

Pg. # 1



Nocturnal Observations

| time                    | species          | # | dir. | hgt. | remarks  | loc. |
|-------------------------|------------------|---|------|------|--|------|
| 1905.1                  |                  |   |      |      | Begin Nocturnal observations                       |      |
| 2110                    | RFB              | 1 | ⊙    | imm. |  |      |
| 2200                    | Sooty T.         | 1 | W    |      |  |      |
| 2210                    | " "              | 2 | ?    |      |  |      |
| 2215                    | " "              | 4 | W    |      |  |      |
| 2220                    | " "              | 1 | ?    |      |  |      |
| 2223                    | RFB              | 1 | W    |      | imm.   |      |
| <del>2223</del><br>2227 | Sooty T          | 1 |      |      |  |      |
| 2247                    | " "              | 2 | E    |      |  |      |
| 2255                    | " "              | 2 | E    |      | flying low, alongside ship                         |      |
| 2257                    | " "              | 1 |      |      |  |      |
| 2306                    | " "              | 2 | E    |      | " " " "  |      |
| 2300                    |                  |   |      |      |  |      |
| 2315                    |                  |   |      |      | we are 2 miles WSW of Howland,<br>and heading EAST |      |
| 2317                    | Bird             | 1 | W    |      | we are 1 mile south of Howland,<br>heading east    |      |
| 2322                    | Sooty Tern       | 2 | ⊙    |      |  |      |
| 2327                    | Shearwater       | 1 |      |      |  |      |
| 2330                    | Sooty T.         | 4 | W    |      | may have been Newell's type                        |      |
| 2335                    | " "              | 3 | W    |      |  |      |
| 2358                    | " "              | 1 | ?    |      |  |      |
| 0001                    | " "              | 2 | ?    |      |  |      |
| 0647                    | WR. Storm Petrel | 1 |      |      | flying parallel to ship                            |      |
| 0656                    |                  |   |      |      | Sunrise End Nocturnal observations                 |      |

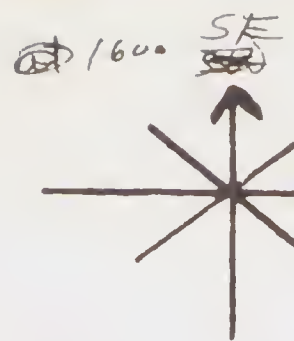


Noon Position: 1-24 N; 175-39 W

DATE 6 Feb 66  
Pg. # 1

563

| time               | species          | #  | dir. | hgt. | remarks   | loc.             |
|--------------------|------------------|----|------|------|---|------------------|
| 0657               |                  |    |      |      | sunrise begin observations                        |                  |
| 0658               | wedgetail        | 1  | N    |      | dark  |                  |
| 0701               | wedgetail        | 1  | N    |      | light   |                  |
| 0723               | Audobon? Shear.  | 2  | NE   |      |   |                  |
| 0740               | Pet sp           | 1  | W    |      | 1st JFP, in 1st imm. B. back on ground            |                  |
| 0803               | Storm Pet        | 1  | ⊙    |      |   |                  |
| 0815               | Storm Pet        | 1  | SW   |      |   |                  |
| 0817               | Sooty T.         | 1  | SW   |      |   |                  |
| 0818               | Pet sp           | 1  | NE   |      |   |                  |
| 0827               | Storm Pet        | 1  | SE   |      | wh. rump  |                  |
| FF 0846            | Sooty Tern       | 5  |      |      |   |                  |
|                    | Shear-Pet        | 1  |      |      | feeding   |                  |
| 0858               | Petrel           | 3  | W    |      | all dark, small                                   |                  |
| DFC 0914           | BFB              | 1  | NE   |      |   |                  |
|                    | Sooty T.         | 2  | NE   |      | travelling  |                  |
|                    | Shear Pet        | 1  | NE   |      |   |                  |
| 0915               | Ruddy Turnstone  | 1  | NE   |      |   |                  |
| 0936               | Storm Pet        | 1  | W    |      | wh. rump; flew thru                               |                  |
| 1036               | Sooty Tern       | 1  | N    |      | ad. 9 shot patterns                               |                  |
| 1106               | wedgetail        | 1  | ⊙    |      | dark phase  |                  |
| FFC 1138           | Sooty Tern       | 2  | all  |      | feeding flock, fishing jumping                    | 1 Sooty all. RSC |
|                    | Gray-backed Tern | 3  |      |      |   |                  |
| FF 1200            | Sooty Tern       | 18 |      |      | Feeding after a fashion - all adults              |                  |
|                    | Long B. Tern     | 2  |      |      |   |                  |
| 1228               | Sooty Tern       | 1  | NE   |      |   |                  |
| 1236               | B. T. Booby      | 1  | NW   |      | Not true NW, just screwing around the way Boobies |                  |
| 1236               | Sooty Tern       | 1  | ⊙    |      | usually do.                                       |                  |
| change course 1257 | Storm Pet        | 1  | NE   |      | adult   |                  |
| 1300               | " "              | 1  | NE   |      | white rump  |                  |
| 1302               | " "              | 1  | NW   |      | " "   |                  |
| 1335               |                  |    |      |      | change course                                     |                  |
| 1343               | Storm Pet        | 1  | W    |      | white rump  |                  |
| 1356               | G. Noddy Tern    | 1  | SE   |      |   |                  |
| 1440               | Bulwer's         | 1  | ⊙    |      |   |                  |
| 1455               | "                | 1  | ⊙    |      |   |                  |
| C 1510             | "                | 1  |      |      | sitting and feeding on a cluster                  |                  |
| 1610               | W.R. Storm Pet   | 1  | SW   |      | of eggs, collected sp?                            |                  |

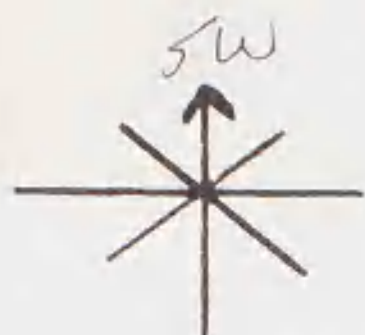


Noon Position: 1-24 N ; 175-39 W

Southern Grid 3

DATE 6 Feb 66  
Pg. # 2

| time | species     | # | dir. | hgt. | remarks                 | loc.   |
|------|-------------|---|------|------|-------------------------|--|
| 1753 | BFB         | 1 | ad   | SE   |                         |  |
| 1820 | Bulwers Pet | 1 | SE   |      |                         |  |
| 1830 |             |   |      |      | change to SW heading    |  |
| 1834 | BFB         | 1 | NE   |      |                         |  |
| 1857 |             |   |      |      | Summit End observations |  |
|      |             |   |      |      |                         | 1700 Two engines now in operation.   |
|      |             |   |      |      |                         | 1730 starboard engine blew another leak, expected out for 3 hrs. at least. |



midnight position 0-38N; 175-53W

DATE Feb 6<sup>7</sup>, 1966  
Pg. # 1

Nocturnal Observations

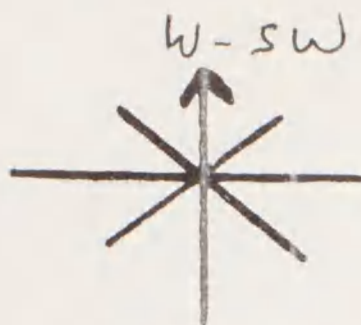
time species # dir. hgt. remarks loc.

| time            | species         | #            | dir.         | hgt. | remarks                                   | loc. |
|-----------------|-----------------|--------------|--------------|------|---|------|
| 1857            |                 |              |              |      | Began Nocturnal observations              |      |
| 1915            | BFB             | 1            | NE           |      | adult                                     |      |
| 1930            | RFB             | 1            | ⊙            |      | imm                                       |      |
| 1933            | BFB             | 1            | N            |      | adult                                     |      |
| 2105            | Sooty Tern      | 2            | SW           |      |   |      |
| 2115            | Shear-Pet       | 1            | SW           |      |   |      |
| 2118            | Sooty Tern      | 1            | ⊙            |      |   |      |
| 2120            | " "             | 2+           |              |      | calling off to the NE                     |      |
| 2125            | " "             | 1            | ⊙            |      |   |      |
| 2136            | " "             | 5+           | ⊙            |      | circling around ship, but least headed NE |      |
| 2139            | " "             | 2            | SW           |      |   |      |
| 2140            | " "             | 1            | ⊙            |      |   |      |
| 2143            | " "             | 2            |              |      | calling off to NW                         |      |
| 2145            | " "             | 1            | NE           |      |   |      |
| 2150            | " "             | 1            |              |      | calling off to E                          |      |
| 2153            | Shear Pet       | 1            |              |      |   |      |
| 2158            | Sooty Tern      | 2            | SW           |      |   |      |
| 2204            | " "             | 1            | ⊙            |      |   |      |
| 2207            | " "             | 2            | ?            |      |   |      |
| 2215            | " "             | 5+           | NW           |      |   |      |
| 2225            | " "             | 3+           | ?            |      |   |      |
| 2237            | " "             | 1            | ?            |      |   |      |
| 2250            | " "             | 1            | ⊙            |      |   |      |
| 2252            | Shear-Pet       | 1            |              |      | probably Audubon's Sparrow                |      |
| 2257            | Sooty Tern      | 1            | SW           |      |   |      |
| 2305            | Audubon's       | 1            | SW           |      |   |      |
| 2310            | Shear-Pet       | 1            | SW           |      | flew by in light, small, light            |      |
| 2325            | Sooty Tern      | 2            | W?           |      | underwing, white belly and breast,        |      |
| 2330            | " "             | 1            | WNW          |      | rapid Newell's-like wingbeat, straight    |      |
| 2343            | " "             | 1            | ?            |      | flight. JPT                               |      |
| 2346            | " "             | 2            | ⊙            |      | large.                                    |      |
| 2353            | " "             | 2            | ⊙            |      |   |      |
| 0010            | Audubon's       | 1            | ⊙            |      | circled ship                              |      |
| 0015            | Sooty Tern      | 3±           | 1 ⊙          |      |   |      |
| 0029            | Sooty Tern      | 2            | NE           |      |   |      |
| 0032            | " "             | 3            | ⊙            |      |   |      |
| <del>0037</del> | <del>Bird</del> | <del>1</del> | <del>⊙</del> |      |   |      |
| 0046            | Shear-Pet       | 1            | ⊙            |      | dark phase, probably a                    |      |
| 0046            | Sooty Tern      | 2            | ?            |      | wedgetail                                 |      |
| 0057            | Shear-Pet       | 1            | E            |      | possibly Wh-Throated Storm Pet            |      |
| 0101            | Storm Pet       | 1            | ⊙            |      | small, fluttery, had white belly,         |      |
| 0102            | Sooty T.        | 1            | ⊙            |      | breast not visible. JPT                   |      |
| 0114            | " "             | 4            | ⊙            |      | passed in light to investigate            |      |
| 0119            | " "             | 2            | ⊙            |      | a floating object.                        |      |
| 0120            | " "             | 4±           | 1 ⊙          |      | white rump, maybe same bird               |      |
|                 |                 |              |              |      | as 0057                                   |      |



mid night Position: 0-38N; 175-53W

SI-MNH-958e  
7-28-64



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

Nocturnal Observations

DATE 6-7 February 1966  
Pg. # 2

| time | species    | # | dir. | hgt. | remarks  | loc. |
|------|------------|---|------|------|--|------|
| 0225 | sooty tern | 1 | ☉    |      |  |      |
| 0410 | shear pet  | 1 | N-NE |      |  |      |
| 0435 | Sooty tern | 1 | E-NE |      |  |      |
| 0535 |            |   |      |      | Baker Island 1 mile off port                       |      |
| 0600 |            |   |      |      | Baker 1/2 mi off - cease observations for pick-up. |      |

NOON Position. 0-43 N; 176-36 W

SI-MNH-958e  
7-28-64

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

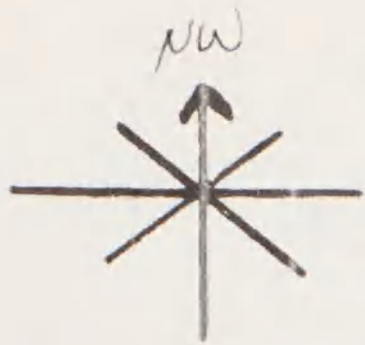


DATE 7 February 1966  
Pg. # 1

| time    | species                                       | #   | dir.           | hgt. | remarks  | loc.  |
|---------|---|-----|----------------|------|--|-------|
| 0730    |   |     |                |      | Begin observations   | Baker |
| 0801    | Bear-Pet                                      | 1   | SE             |      |  |       |
| C 0837  | Leach's                                       | 1   | ⊙              |      | coll. gpt  |       |
| 0924    | Storm Pet                                     | 1   | SE             |      | white rump   |       |
| 1017    | W.R. Storm Pet                                | 1   | W              |      |  |       |
| 1026    | W.R. Storm Pet                                | 1   | N              |      |  |       |
| TF 1033 | Sooty tern                                    | 5   | S-SE           |      | low over H <sub>2</sub> O.                                       |       |
| 1045    | " "   | 3   | ⊙              |      |  |       |
| 1054    | " "   | 2   | N              |      |  |       |
| TF 1107 | " "   | 14  | SE             |      | low over H <sub>2</sub> O  |       |
| C 1115  | RTTB  | 1   |                |      | coll. RSC + FS <u>landed!</u>                                    |       |
| 1115    | Frigates                                      | 3   |                |      | imm. ♀'s or young all w/ white throats & neck                    |       |
| 1125    | BFB   | 1   |                |      | imm.   |       |
| TF 1207 | Sooty tern                                    | 6   | SW             |      |  |       |
| TF 1208 | " "   | 9   | SW             |      |  |       |
| 1209    | BFB   | 1   | NW             |      |  |       |
| 1211    | Sooty tern                                    | 3   | SW             |      |  |       |
| 1228    | " "   | 3   | SW             |      |  |       |
| 1238    | BFB   | 1   | following ship |      | Imm No Band.   |       |
| 1245    | BFB baby                                      | 2   |                |      | Ad.  |       |
| 1245    | " "   | 1   |                |      |  |       |
| 1248    | R-F Baby                                      | 4   | ⊙              |      | off Howland  |       |
| 1248    | Brown Baby                                    | 2   | ⊙              |      | " "  |       |
| 1248    | Sooty tern                                    | 1   |                |      | imm  |       |
| FF 1250 | frigates                                      | 5   | ⊙              |      |  |       |
|         | Sooty tern                                    | 50+ |                |      | 2 mi off Howland.  |       |
| 1300    | closing observations for Howland Isl. pickup. |     |                |      |  |       |
| 1400    | resumes                                       |     |                |      |  |       |
| 1410    | Blue-Face                                     | 1   |                |      |  |       |
| 1420    | Sooty tern                                    | 3   | W              |      | many boobies about and some terns coming & going from the island |       |
| 1530    | " "   | 4   | SE             |      | many boobies about and some terns coming & going from the island |       |
| TF 1533 | " "   | 11  | SE             |      | many boobies about and some terns coming & going from the island |       |
| TF 1543 | " "   | 13  | SE             |      | many boobies about and some terns coming & going from the island |       |
| 1605    | Storm Pet                                     | 1   | W              |      | travelling   |       |
| IC 1605 | <del>Leach's</del>                            | 4   |                |      | white rump   |       |
| 1608    | Leach's Storm Pet                             | 4   | ⊙              |      | " " sitting on water 1 coll                                      |       |
| 1610    | " "   | 4   | ⊙              |      | " "  |       |
| 1611    | " "   | 3   | ⊙              |      | " "  |       |
| 1628    | " "   | 1   | W              |      | " "  |       |
| 1645    | " "   | 1   | N              |      | " "  |       |
| 1655    | BFB   | 2   |                |      | sat on H <sub>2</sub> O, adults                                  |       |

Noon Position: 0-43N, 176-36W

SI-MNH-958e  
7-28-64



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

DATE 7 February 1966  
Pg. # 2

|    | time | species          | #  | dir. | hgt. | remarks                     | loc. |
|----|------|------------------|----|------|------|-----------------------------|------|
| C  | 1719 | Blue-faced Booby | 1  |      |      | shot by Thompson banded     |      |
|    |      | Storm Petrel     | 1  | ⊙    |      | white rump                  |      |
| TF | 1718 | Sooty tern       | 23 | E    |      | traveling flocks            |      |
|    | 1727 | Bulwer's Pet     | 1  | NW   |      |                             |      |
|    | 1734 | Sooty tern       | 3  | N    |      |                             |      |
| FF | 1800 | " "              | 14 |      |      | Feeding                     |      |
| ✓C | 1800 | Leach's SP       | 1  |      |      | coll. M. Thompson           |      |
|    | 1806 | WR Storm Pet     | 1  |      |      | feeding                     |      |
|    | 1815 | A.T. Tropicbird  | 1  | S    |      |                             |      |
|    | 1816 | RFB              | 1  | ad   | ⊙    |                             |      |
|    | 1817 | WR Storm Pet     | 1  | SE   |      |                             |      |
|    | 1832 | "                | 1  | N    |      |                             |      |
|    | 1836 | "                | 1  | N    |      |                             |      |
|    | 1841 | "                | 1  | NW   |      |                             |      |
|    | 1845 | Sooty Tern       | 1  | SW   |      |                             |      |
|    | 1847 | W.R. Storm Pet   | 1  | ⊙    |      |                             |      |
| BS | 1852 | RFB              | 2  | ad   |      | one streamered              |      |
|    | 1905 |                  |    |      |      | sunset - cease observations |      |

SI-MNH-958e  
7-28-64

mid night Position: 1-24N; 177-39W

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

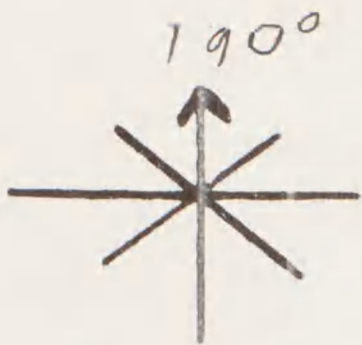
Nocturnal  
SIC 11

DATE Feb 7-8, 1966  
Pg. # 1



| time | species                     | # | dir. | hgt. | remarks                      | loc. |
|------|-----------------------------|---|------|------|------------------------------|------|
| 1909 | Sunbird                     |   |      |      |                              |      |
|      | Start Nocturnal observation |   |      |      |                              |      |
| 1916 | B-F Booby                   | 1 |      |      | collected (Smith) - but lost |      |
| 1925 | Wedge tail R-F Booby        | 2 | NW   |      | couldnt tell color of face   |      |
| 1932 | Booby                       | 1 | O    |      |                              |      |
| 1945 | Sooty Tern                  | 1 | O    |      |                              |      |
| 2005 | B-F Booby                   | 1 | O    |      |                              |      |
| 2015 | Pink sp                     | 1 | S    |      |                              |      |
| 2045 | Shearwater-Petrel           | 1 | O    |      |                              |      |
| 2050 | Sooty Tern                  | 1 | ?    |      |                              |      |
| 2102 | " "                         | 1 | O    |      |                              |      |
| 2115 | " "                         | 2 | ?    |      |                              |      |
| 2130 | " "                         | 1 | ?    |      |                              |      |
| 2132 | Pink sp.                    | 1 | ?    |      |                              |      |
| 2210 | white thr. storm Petrel     | 1 |      |      |                              |      |
| 2212 | Sooty Tern                  | 1 | SW   |      | wide awake call              |      |
| 2250 | " "                         | 2 |      |      | call.                        |      |
| 2310 | " "                         | 1 | O    |      |                              |      |
| 2315 | " "                         | 1 |      |      |                              |      |
| 2334 | Bird                        |   |      |      |                              |      |
| 2340 | Golden Plover               | 1 |      |      | call.                        |      |
| 2345 | Audubon Shear               | 1 |      |      |                              |      |
| 0005 | Sooty Tern                  | 2 | SE   |      |                              |      |
| 0035 | " "                         | 1 |      |      |                              |      |
| 0100 | " "                         | 1 |      |      |                              |      |
| 0107 | " "                         | 1 |      |      | calling.                     |      |
| 0125 | Audubon Shear.              | 1 |      |      |                              |      |
| 0137 | Sooty Tern                  | 1 |      |      |                              |      |
| 0145 | Sooty Tern                  | 2 |      |      |                              |      |
| 0219 | " "                         | 1 | SE   |      |                              |      |
| 0242 | Storm Pet                   | 1 |      |      | wh. rump                     |      |
| 0249 | Sooty Tern                  | 1 | O    |      |                              |      |
| 0322 | " "                         | 2 | O    |      |                              |      |
| 0320 |                             |   |      |      | rain                         |      |
| 0323 | Storm Pet                   | 1 | O    |      | white rump                   |      |
| 0330 |                             |   |      |      |                              |      |
| 0335 | Audubon's                   | 1 | O    |      | course change to 190°        |      |
| 0338 | Sooty Tern                  | 3 | E-NE |      |                              |      |
| 0355 | " "                         | 1 | ?    |      |                              |      |

SI-MNH-958e  
7-28-64



Midnight Position: 1-24N; 177-39W

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

DATE 7-8 Feb. 66  
Pg. # 2

NOCTURNAL

| time | species    | # | dir. | hgt. | remarks                           | loc. |
|------|------------|---|------|------|-----------------------------------|------|
| 0409 | Sooty Tern | 2 | P    |      |                                   |      |
| 0413 | " "        | 2 | O    |      |                                   |      |
| 0444 | Audubon's  | 1 | O    |      |                                   |      |
| 0444 | BFB        | 1 | N    |      | adult                             |      |
| 0448 | Sooty Tern | 2 | NE   |      |                                   |      |
| 0502 | " "        | 1 | O    |      | collected but recovery impossible |      |
| 0524 | " "        | 2 | O    |      |                                   |      |
| 0619 |            |   |      |      | watch started to low              |      |
| 0705 |            |   |      |      | sunrise                           |      |

650

Noon Position: 0-42 N; 178-13 W

SI-MNH-958e  
7-28-64SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG -- EDATE 8 Feb 1966  
Pg. # 1

| time     | species                   | # | dir.                | hgt. | remarks   | loc. |
|----------|---------------------------|---|---------------------|------|---|------|
| 0705     |                           |   |                     |      | Sunrise   |      |
| 0715     | Sooty Tern                | 1 | E                   |      |   |      |
| 0720     | " "                       | 4 | NE                  |      |   |      |
| 0728     | Blue-faced Booby          | 1 |                     |      | shot by Thompson                                |      |
| 0822     | JF Petrel                 | 1 | N                   |      |   |      |
| 0831     | " "                       | 1 | N                   |      |   |      |
| 0839     | Sooty Tern                | 1 | E                   |      |   |      |
| 0910     | Noddy Tern                | 2 |                     |      | feeding   |      |
|          | Blue-grey Noddy           | 1 |                     |      |   |      |
|          | W-R. Storm Petrel         | 1 |                     |      |   |      |
| 0958     | White rumped storm Petrel | 1 | N                   |      |   |      |
| 1000     | Bulwer's Petrel           | 1 | S                   |      |   |      |
| 1015     | Sooty Tern                | 2 | S                   |      |   |      |
| 1016     | shear/petrel              | 1 | W                   |      |   |      |
| 1025     | shear/petrel              | 1 | S                   |      |   |      |
| 1113     | storm Petrel              | 2 | S                   |      | white rumped                                    |      |
| 1120     |                           |   |                     |      | heading 050° (NE)                               |      |
| 1137     | Storm Petrel              | 1 | NE                  |      | white rumped                                    |      |
| 1228     | WT Tropicbird             | 1 | ⊙                   |      | own ship  |      |
| 1305     | B-F Booby                 | 1 | <del>NE</del><br>SW |      |   |      |
| 1320     | Storm Petrel              | 1 | SE                  |      | white rumps                                     |      |
| F C 1500 | Leach's Type              | 7 |                     |      | sitting on H <sub>2</sub> O, 1 coll. (JF)       |      |
| 1555     |                           |   |                     |      | Ship underway again. (same position since 1500) |      |
| 1655     | Red-footed Booby          | 1 | MM                  |      | immature  |      |
| 1726     | W.R. Storm Pet            | 1 | SW                  |      |   |      |
| 1820     | " " "                     | 1 | W                   |      |   |      |
| 1909     | Sunset                    |   |                     |      | End observations                                |      |

midnight position: 1-43 N; 177-14 W

SI-MNH-958e  
7-28-64



SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG — E

8-9 Feb.

DATE 8 Feb 66  
Pg. # 1

Nocturnal Observations

| time | species    | # | dir. | hgt. | remarks                                   | loc. |
|------|------------|---|------|------|---|------|
| 1907 |            |   |      |      | Begin Nocturnal observations heading 050° |      |
| 2036 | Sooty Tern | 1 | ⊙    |      |   |      |
| 2104 | " "        | 1 | SW   |      |   |      |
| 2130 | Shear Pet  | 1 | S    |      |   |      |
| 2313 | Sooty Tern | 1 | NE   |      |   |      |
| 2400 | " "        | 1 | P    |      | changed to heading 133°                   |      |
| 2443 | " "        | 2 | P    |      |   |      |
| 0330 |            |   |      |      |   |      |
| 0351 | " "        | 1 | ⊙    |      |   |      |
| 0620 |            |   |      |      | ship's heading 133° changed some time     |      |
| 0625 | Sooty tern | 1 | ?    |      | back.                                     |      |
| 0634 | " "        | 1 | ?    |      | transiently                               |      |
| 0659 |            |   |      |      | " "                                       |      |
|      |            |   |      |      | Sunrise End Nocturnal Observations        |      |

SI-MNH-958e  
7-28-64



Noon Position: 1-02N; 176-51W

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

DATE 9 Feb 66  
Pg. # 1

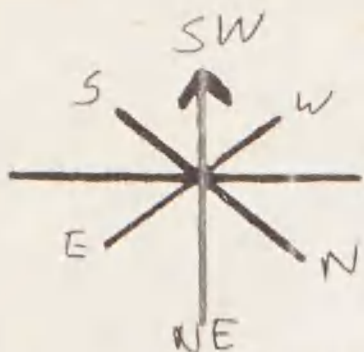
|    | time | species               | #   | dir.   | hgt. | remarks                      | loc. |
|----|------|-----------------------|-----|--------|------|------------------------------|------|
|    | 0659 |                       |     |        |      | Begin Diurnal Observations   |      |
|    | 0716 | Sooty Tern            | 3   | N      |      | Adults                       |      |
|    | 0718 | " "                   | 1   | SE     |      | Ad                           |      |
|    | 0728 | " "                   | 4   | ⊙      |      | 1 ad, 3?                     |      |
|    | 0729 | Storm Pet             | 1   | ⊙N     |      | unknown rump                 |      |
|    | 0732 | W-TTB                 | 1   |        |      | over ship                    |      |
| C  | 0740 | Storm Pet             | 1   |        |      | white rump - shot by Lewis   |      |
|    | 0800 | Storm Pet             | 1   |        |      | white rump                   |      |
|    | 0803 | Leach's Frigate       | 1   |        |      |                              |      |
|    | 0814 | Storm Pet             | 2   | S      |      | white rump                   |      |
|    | 0820 |                       |     |        |      | changed heading to 225°      |      |
|    | 0830 | cut shearwater        |     | N      |      | light phase                  |      |
|    | 0857 | Storm Pet             | 1   | NE     |      | white rump                   |      |
| C  | 0914 | Sooty Tern            | 1   | NE     |      | shot by M. Thompson          |      |
| C  | 0916 | Leach's Storm Petrel  | 1   | NE     |      | white rump " " " "           |      |
| BS | 0920 | Blue-faced Booby      | 1   | ⊙      |      | immature, streamered (blue)  |      |
|    | 0942 | Storm Pet             | 1   | NE     |      | white rump                   |      |
| TF | 0945 | Sooty Terns           | 3   | ⊙M     |      | 7 sooties                    |      |
| FF | 0950 | Sooty Terns           | 100 |        |      |                              |      |
|    |      | cut shearwater        | 5   |        |      |                              |      |
|    | 0955 | Storm Petrel          | 1   | ⊙      |      | Leach's                      |      |
|    | 1000 | WTTB                  | 1   | MM     |      | imm                          |      |
|    | 1015 | Blue faced Booby      | 1   | ⊙      |      |                              |      |
|    | 1020 | W.A. Storm Pet        | 1   | ⊙      |      |                              |      |
|    | 1035 | " " " "               | 1   | NE     |      |                              |      |
|    | 1038 | " " " "               | 1   | SW     |      |                              |      |
|    | 1040 | Sooty Tern            | 2   | NW     |      |                              |      |
|    | 1045 | " "                   | 2   | NW     |      |                              |      |
| C  | 1051 | W.A. Storm Pet        | 1   |        |      | beak hurt                    |      |
|    | 1052 | Leach's sp Wedgetail  | 1   | W      |      | light                        |      |
|    | 1147 | Sooty T.              | 1   | NW     |      | adult                        |      |
|    | 1205 | Shearwater            | 1   | M      |      |                              |      |
|    | 1205 |                       |     |        |      | porpoise 5-10 SE.            |      |
|    | 1207 | Sooty Terns           | 2   | SSW NW |      | adults                       |      |
| TF | 1210 | Sooty Tern            | 10  | ⊙W     |      | all adults                   |      |
|    |      | <del>shear/Pet</del>  |     |        |      |                              |      |
|    | 1210 | Storm Petrel          | 1   | SE     |      | Leach's                      |      |
|    | 1215 | Sooty T.              | 1   | W      |      |                              |      |
| C  | 1224 | Leach's Type          | 1   |        |      | 1 coll. (BAN) sitting on the |      |
|    | 1232 | Leach's sp Sooty Tern | 3   | NE     |      | adults                       |      |



Noon Position: 1-08 N; 176-51 W

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

SI-MNH-958e  
7-28-64



DATE 9 February 1966  
Pg. # 2

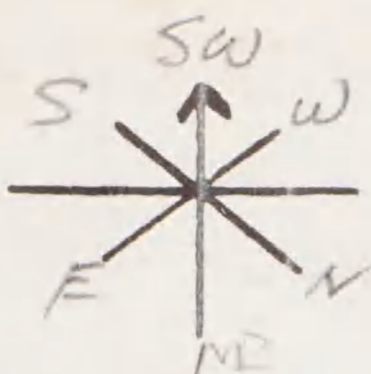
|    | time | species                                 | #       | dir. | hgt. | remarks  | loc. |
|----|------|---|---------|------|------|--|------|
|    | 1237 | <sup>W.R. Storm</sup><br>Leach's Petrel | 1       | NE   |      |  |      |
|    | 1302 | Sooty T.                                | 4       | S    |      | adults   |      |
|    | 1331 | Bulwer's Petrel                         | 1       | W    |      |  |      |
|    | 1347 | Storm Petrel                            | 3       | SW   |      | white rumps (were originally sitting on H <sub>2</sub> O)                |      |
| TF | 1355 | Sooty Tern                              | 6       | SE   |      |  |      |
| C  | 1448 | Storm Petrel<br>Leach's SP              | 2<br>1  |      |      | on H <sub>2</sub> O, white rumped (1 collected<br>Leach's SP.)<br>DeLong |      |
|    | 1505 | Storm Pet                               | 2       |      |      | white rumped   |      |
|    | 1507 | Sooty Tern                              | 1       |      |      | imm.   |      |
|    | 1538 | Storm Pet                               | 1       | ⊙    |      | White Rump   |      |
|    | 1600 | " "                                     | 1       | ⊙    |      | " " - out flushed from H <sub>2</sub> O                                  |      |
|    | 1627 | Sooty Tern                              | 1       | SE   |      |  |      |
| TF | 1654 | " "<br>Fairy Tern                       | 19<br>1 |      |      | Feeding  |      |
|    | 1705 | Sooty Tern                              | 1       | SW   |      |  |      |
|    | 1711 | W.R. Storm Pet                          | 1       | NE   |      |  |      |
| FF | 1727 | Sooty Tern                              | 7       | CR   |      | Feeding<br>skittering along on top H <sub>2</sub> O and almost landing.  |      |
|    | 1736 | W.R. Storm Pet                          | 1       |      |      |  |      |
|    | 1744 | Sooty Tern                              | 1       | E    |      |  |      |
|    | 1755 | Sooty Tern                              | 2       | E    |      |  |      |
|    | 1758 | " "                                     | 1       | W    |      |  |      |
|    | 1827 | " "                                     | 1       | NW   |      |  |      |
|    | 1904 | White R. Storm P.                       | 1       | SE   |      |  |      |
|    | 1909 |   |         |      |      | Sunset   |      |

SI-MNH-958e  
7-28-64

midnight position: 0-183; 177-56W

SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG — E

Feb 9 # 10 66  
DATE \_\_\_\_\_  
Pg. # \_\_\_\_\_



Nocturnal

| time | species        | # | dir. | hgt. | remarks                                 | loc. |
|------|----------------|---|------|------|---|------|
| 1909 |                |   |      |      | Sunset                                  |      |
| 1915 | Sooty Tern     | 2 | ⊙    |      |   |      |
| 1917 | Red-f. Booby   | 1 |      |      | Collected by Thompson Banded            |      |
| 1925 | Storm Petrel   | 1 | W    |      |   |      |
| 2027 | Bird           | 1 | NE   |      | couldn't tell whether white rumped      |      |
| 2035 | "              | 1 | NE   |      | Possible Tropicbird                     |      |
| 2055 | "              | 1 | NE   |      | " "                                     |      |
| 2112 | Sooty Tern     | 1 | NE   |      |   |      |
| 2117 | "              | 1 | NE   |      |   |      |
| 2123 | Bird           | 1 | ?    |      |   |      |
| 2130 | Sooty Tern     | 2 | ⊙    |      |   |      |
| 2151 | "              | 1 | NE   |      |   |      |
| 2155 | Bird           | 1 | NE   |      | Storm Petrel?                           |      |
| 2320 | "              | 1 | —    |      |   |      |
| 0032 | Gray back Tern | 1 | ⊙    |      | circled ship calling (out of gun range) |      |
| 0158 | Sooty T.       | 1 |      |      | adult.                                  |      |
| 0220 | " "            | 1 | ⊙    |      |   |      |
| 0245 |                |   |      |      | change to NE course                     |      |
| 0316 | Sooty Tern     | 1 | W    |      |   |      |
| 0429 | " "            | 1 | ⊙    |      |   |      |
| 0520 |                |   |      |      | Rain                                    |      |
| 0530 |                |   |      |      |   |      |
| 0540 | Wedgetail      | 1 | NW   |      | light                                   |      |
| 0700 |                |   |      |      | Sunrise - Cease Noct. obs               |      |

C banded

Noon Position: 0-03 S; 177-01 W

SI-MNH-958e  
7-28-64

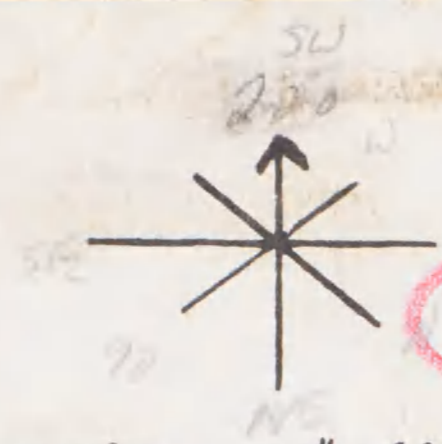


SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA DAILY LOG -- E

DATE 10 Feb. 1966  
Pg. # 1

| time | species                   | # | dir. | hgt. | remarks                         | loc. |
|------|---------------------------|---|------|------|---------------------------------|------|
| 0700 |                           |   |      |      | Sunrise                         |      |
| 0739 | Bird                      | 1 |      |      | Seen by Tom                     |      |
| "    | Sooty Tern                | 1 | W    |      | Adult                           |      |
| 0750 | G Frigate                 | 1 | SE   |      | adult ♀ ? RSC                   |      |
| 0820 | w. h. Storm Pet           | 1 | SE   |      |                                 |      |
| 0930 | Sooty Tern                | 2 | NE   |      |                                 |      |
| 1015 | Booby sp.                 | 1 | SE   |      | imm.                            |      |
| 1045 | Sooty Tern                | 1 | SE   |      | adult                           |      |
| 1102 | Fairy Tern                | 1 | NE   |      |                                 |      |
| 1130 |                           |   |      |      |                                 |      |
| 1142 | WTTB                      | 1 | NW   |      | Course change 090°              |      |
| 1221 | Storm Petrel              | 1 | E    |      | white rump                      |      |
| 1231 | " "                       | 1 |      |      | " " sitting on H <sub>2</sub> O |      |
| 1300 | " "                       | 1 | Q    |      | " "                             |      |
| 1435 | W-T Shear                 | 1 | E    |      | light phase                     |      |
| 1450 | BF Booby                  | 1 |      |      | imm following ship              |      |
| 1520 | <sup>WR</sup> Leach's SP. | 1 |      |      |                                 |      |
| 1550 | Blue-face Booby           | 1 |      |      | adult                           |      |
| 1635 | Storm Petrel              | 1 | M    |      | white rumped                    |      |
| 1637 | BF Booby                  | 2 | M    |      | one adult, and one immature     |      |
| 1643 | Storm Petrel              | 1 | M    |      | white rumped                    |      |
| 1743 | " "                       | 1 | M    |      | white rump                      |      |
| 1750 | Shear                     | 1 | N    |      |                                 |      |
| 182  | Bulwer's Pet.             | 1 | NE   |      |                                 |      |
| 1904 |                           |   |      |      | Sunset                          |      |

Sunrise  
0657



Midnight Position: 0-03N; 176-11W

10-11 February 1966

DATE \_\_\_\_\_  
Pg. # 1

NOCTURNAL

time species # dir. hgt. remarks loc.

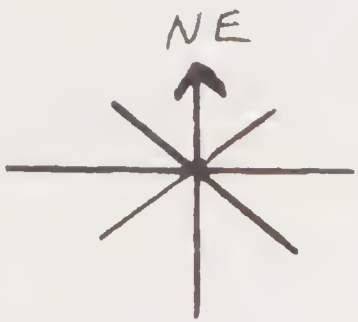
| time | species    | #  | dir. | hgt. | remarks  | loc. |
|------|------------|----|------|------|--|------|
| 1904 |            |    |      |      | SUNSET - BEGIN OBSERVATIONS  |      |
| 2030 | Bird       | 1  | -    |      |  |      |
| 2045 | "          | 1  |      |      | Small, maybe storm petrel.   |      |
| 2145 | "          | 1  |      |      |  |      |
| 2226 | Sooty Tern | 1  | E    |      |  |      |
| 2245 | " "        | 1  | E    |      | Paralleling ship about 100 yds off   |      |
| 2250 | " "        | 1  |      |      |  |      |
| 2255 | " "        | 2+ |      |      | calling off to starboard   |      |
| 0030 |            |    |      |      |  |      |
| 0045 |            |    |      |      | squalls  |      |
| 0100 |            |    |      |      | change heading to 220°   |      |
| 0105 | Sooty Tern | 1  | SE   |      |  |      |
| 0135 | " "        | 1  | Com  |      |  |      |
| 0138 | Shearbird? | 1  |      |      | flew by light once, brownish on back and upper wings, mottled breast, made kind of a Peep sound. |      |
| 0149 | Shear-pet  | 1  | NW   |      |  |      |
| 0154 | Sooty Tern | 1  |      |      | small, fast wing beat, probably Audubon's Shear  |      |
| 0157 | " "        | 2  | NW   |      | calling off to S   |      |
| 0158 | " "        | 1  |      |      | calling off to NW  |      |
| 0205 | " "        | 3+ |      |      | " " " SW   |      |
| 0215 | " "        | 1  | NE   |      |  |      |
| 0217 | " "        | 1  | ⊙    |      |  |      |
| 0225 | " "        | 2  | ⊙    |      | high, above ship   |      |
| 0230 | " "        | 2  | E    |      |  |      |
| 0245 | " "        | 2  | SE   |      |  |      |
| 0255 | " "        | 2  | N    |      |  |      |
| 0320 | " "        | 1  | ?    |      |  |      |
| 0330 | " "        | 1  | ?    |      |  |      |
| 0332 | " "        | 2  | ?    |      |  |      |
| 0430 | " "        | 3  | ⊙    |      | - stopped for BT   |      |
| 0438 | " "        | 1  | ?    |      |  |      |
| 0446 | " "        | 1  | W    |      |  |      |
| 0502 | " "        | 1  | ?    |      |  |      |
| 0505 | " "        | 1  | NE   |      |  |      |
| 0555 | " "        | 1  | ⊙    |      |  |      |
| 0657 |            |    |      |      | Sunrise  |      |



Noon Position: 1-155; 176-51W

DATE 11 February 1966  
Pg. # 1

| time | species            | # | dir. | hgt. | remarks  | loc. |
|------|--------------------|---|------|------|--|------|
| 0657 |                    |   |      |      | sunrise - scattered clouds - wind from E.<br>Sea relatively calm |      |
| 0720 | W-R Storm Pet      | 1 | E-NE |      |  |      |
| 0727 | " " "              | 1 | S-SW |      |  |      |
| 0800 | " " " "            | 2 | SW   |      |  |      |
|      | Sooty Tern         | 1 | SW   |      | Ad   |      |
| 0810 | W-R Storm Pet      | 2 |      |      |  |      |
| 0823 | " " " "            | 1 |      |      |  |      |
| 0847 | " " " "            | 1 |      |      |  |      |
| 0858 | BF Booby           | 1 | SW   |      | Ad   |      |
| 0900 | Storm Pet          | 1 | NE   |      | could not see white wings.                                       |      |
| 0900 |                    |   |      |      | change course to SE, 130°  |      |
| 0928 | W-R Storm Pet      | 2 | SE   |      |  |      |
| 0945 | Shearwater         | 1 | SE   |      |  |      |
| 0956 | White R. Storm Pet | 1 | NW   |      |  |      |
| 1049 | Red-footed Booby   | 3 | S    |      |  |      |
| 1055 | Bulwer's Petrel    | 1 | NW   |      |  |      |
| 1104 | Leach's Tern       | 1 | SW   |      |  |      |
| 1116 | Bird               | 1 |      |      |  |      |
| 1200 | W.R. Storm Pet     | 1 | S    |      |  |      |
| 1205 | "                  | 1 | ⊙    |      |  |      |
| 1233 | "                  | 1 | SW   |      |  |      |
| 1345 | "                  | 1 | SW   |      |  |      |
| 1415 |                    |   |      |      | change heading to 055°   |      |
| 1727 | W-R Storm Pet      | 2 | N    |      |  |      |
| 1735 | "                  | 1 | NE   |      |  |      |
| 1740 | "                  | 1 |      |      | Probably same as above   |      |
| 1755 | Fairy Tern         | 1 | NE   |      |  |      |
| 1758 | Leach's Pet        | 1 |      |      | coll. F. Smith.  |      |
| 1857 |                    |   |      |      | sunset - cease diurnal obs.                                      |      |



Midnight Position: 1-205; 175-35W

DATE ~~11-12~~ Feb 1966

Pg. # 1

Nocturnal Observations

| time | species                         | # | dir. | hgt. | remarks               | loc. |
|------|---------------------------------|---|------|------|-----------------------|------|
| 1857 |                                 |   |      |      | — sunset — begin obs. |      |
| 2045 | Sooty tern                      | 1 | SE   |      |                       |      |
| 2210 | "                               | 1 | ?    |      |                       |      |
| 2210 | "                               | 2 | NE   |      |                       |      |
| 2220 | "                               | 1 | ?    |      |                       |      |
| 2235 | "                               | 1 | NE   |      |                       |      |
| 2245 | "                               | 1 |      |      | overship              |      |
| 2400 | close observation — out of grid |   |      |      |                       |      |

partly cloudy  
wind ca 20 knots.



Noon Position: 2-405; 174-24 W

DATE 12 February 1966  
Pg. # 1

| time    | species              | #  | dir. | hgt. | remarks  | loc.                                     |
|---------|----------------------|----|------|------|--|--|
| 0658    |                      |    |      |      | Sunrise  |  |
| 0712    | Leach's SP           | 1  | 1    |      | Came off H <sub>2</sub> O, very closely observed |  |
| 0732    | Wedgetail Shear      | 1  | SE   |      | light phase                                      |  |
| 0745    | W.R. Storm Pet       | 1  | S    |      |  |  |
| 0817    | "                    | 2  | ⊙    |      | 1 sitting on H <sub>2</sub> O                    |  |
| 0903    | "                    | 1  | NW   |      |  |  |
| 0926    | Wedgetail Shearwater | 1  | S    |      | white phase                                      |  |
| 1002    | Tern sp.             | 2  | SE   |      | probably gray-backed.                            |  |
| 1015    | Sooty Tern           | 1  | N    |      | adult  |  |
| 1030    | B.F. Booby           | 1  | SE   |      | adult.   | single Blue marlin jumping to starboard. |
| 1040    | Sooty Tern           | 1  | NE   |      | "  |  |
| 1042    |                      |    |      |      |  |  |
| 1045    |                      |    |      |      | Rain squall to NE                                |  |
| 1145    | Leach's type SP.     | 1  | SE   |      |  |  |
| 1230    | Storm Pet            | 1  | SE   |      | white ramp.                                      |  |
| 1257    | Booby Sp?            | 1  | E    |      |  |  |
| 1314    | Tern sp.             | 1  | W    |      | may have been fairy but measure RLD              |  |
| 1324    | B-F Booby            | 2  | SE   |      | Adult Birds                                      |  |
| 1400    | Storm Petrel         | 1  | ⊙    |      | Ramp not seen as white                           |  |
| 1420    | W.R. Storm Pet.      | 3  | S    |      |  |  |
| 1515    | Sooty Tern           | 3  | SE   |      |  |  |
| 1515    | BFB                  | 1  | NW   |      | adult  |  |
| 1555    | Bird sp?             | 1  | ENE  |      |  |  |
| 1613    | Tern sp.             | 1  | WE   |      |  |  |
| FF 1615 | Sooty Terns          | 20 |      |      |  |  |
|         | Fairy Tern           | 1  |      |      |  |  |
| FF 1635 | Sooty Terns          | 20 |      |      | 14 immatures rest adult                          |  |
|         | Gray-backed Tern     | 20 |      |      |  |  |
|         | Fairy Terns          | 6  |      |      |  |  |
| 1700    | W.R. Storm Pet       | 2  | SE   |      |  |  |
| 1705    | B-F Booby            | 1  | SSW  |      | adult  |  |
| FF 1720 | Sooty Tern           | 20 | ⊙    |      | 1 Imm.   |  |
|         | Gray-back "          | 20 | ⊙    |      |  |  |
|         | Fairy Tern           | 4  | ⊙    |      |  |  |
| FF 1720 | Sooty Tern           | 50 | ⊙    |      |  |  |
|         | Gray-backed Tern     | 20 | ⊙    |      |  |  |
|         | Fairy Tern           | 10 | ⊙    |      |  |  |
|         | WT Shearwater        | 1  | ⊙    |      | Dark phase                                       |  |
| 1721    | W.R. storm Pet       | 1  | ⊙    |      |  |  |
| 1735    | Tern sp.             | 1  | NW   |      |  |  |
| TF 1739 | Sooty Tern           | 12 | ⊙    |      |  |  |
|         | Gray-backed Tern     | 6  | ⊙    |      |  |  |

ST. 70  
GB 40  
WTS 14

Saw at some time smaller flock joined larger

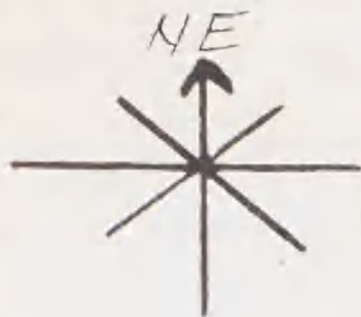


Noon Position: 2-40S; 174-24W

DATE Feb 12  
Pg. # 2

|    | time | species        | #  | dir. | hgt. | remarks                  | loc. |
|----|------|----------------|----|------|------|--------------------------|------|
| TF | 1745 | Sooty Tern     | 50 | NE   |      | } seen at great distance |      |
|    |      | Budsp.         | 10 |      |      |                          |      |
| FF | 1750 | Sooty Tern     | 10 | ⊙    |      |                          |      |
| FF | 1803 | Grey Back Tern | 5  |      |      | Started travelling       |      |
|    |      | Sooty Tern     | 2  |      |      |                          |      |
| TF | 1820 | Audubon Shear  | 3  | ⊙    |      | 1 coll. Thompson         |      |
| C  |      | Sooty Tern     | 4  |      |      | 3 Ad 1 Imm               |      |
|    | 1826 | B-F. Booby     | 1  | ⊙    |      | Ad.                      |      |
|    | 1842 | R-F Booby      | 1  | W    |      | ad.                      |      |
|    | 1855 | Sunset         |    |      |      | Suspended                |      |





Noon Position: Hull Island

SIC 11

DATE 13 Feb. 1966

Pg. # 1

|    | time | species                            | #   | dir. | hgt. | remarks   | loc. |
|----|------|------------------------------------|-----|------|------|---|------|
|    | 1315 | <del>1315</del>                    |     |      |      | depart Hull, begin observations. En route to Phoenix      |      |
|    | 1318 | Gray Back Tern                     | 1   | SW   |      |   |      |
|    | 1318 | Brown Booby                        | 1   |      |      | ad  |      |
|    | 1320 | Gray Back Tern                     | 2   | NE   |      |   |      |
|    | 1322 | Sooty Tern                         | 4   | E    |      |   |      |
| F  | 1324 | " "                                | 28  |      |      | Swirl 1/2 mi off Hull (all adult)                         |      |
|    | 1325 | Wedgetail                          | 1   | NW   |      | dark  |      |
|    | 1327 | Sooty Tern                         | 10  | SE   |      | adults.   |      |
|    | 1327 | " "                                | 2   |      |      |   |      |
|    | 1329 | Gray-backed Tern                   | 1   | S    |      |   |      |
|    | 1335 | Sooty Tern                         | 1   | ○    |      | ad.   |      |
|    | 1335 | R.F. Booby                         | 1   | SW   |      |   |      |
|    | 1342 | Sooty Tern                         | 1   | NW   |      | ad.   |      |
|    | 1347 | " "                                | 4   | NW   |      | ad.   |      |
|    | 1347 | H. Noddy                           | 3   | N    |      |   |      |
|    | 1351 | Sooty Tern                         | 2   | SW   |      | ad  |      |
|    | 1400 | R.F. Booby                         | 1   | ○    |      | Sub Ad  |      |
|    | 1406 | Brown Booby                        | 1   | ○    |      |   |      |
|    | 1409 | Sooty Tern                         | 1   | NW   |      | Ad. - breeding  |      |
|    | 1416 | " "                                | 5   | ○    |      |   |      |
|    | 1417 | <del>H. Noddy</del><br>Brown booby | 1   | ○    |      |   |      |
|    | 1420 | Sooty Tern                         | 3   | NW   |      |   |      |
|    | 1425 | Noddy Tern                         | 2   | NW   |      |   |      |
|    | 1435 | Sooty Tern                         | 3   | W    |      |   |      |
|    | 1435 | B. Booby                           | 1   | NE   |      |   |      |
| FF | 1440 | Fairy Tern                         | 1   |      |      |   |      |
|    |      | Noddy Tern                         | 10  | ○    |      |   |      |
|    |      | B-booby                            | 1   |      |      |   |      |
|    | 1447 | Sooty Tern                         | 1   | W    |      |   |      |
|    | 1452 | B-F Booby                          | 1   | NE   |      |   |      |
| FF | 1520 | Fairy Tern                         | 1   |      |      |   |      |
|    |      | Sooty Terns                        | 20+ |      |      |   |      |
|    | 1530 | Sooty Tern                         | 1   |      |      |   |      |
|    | 1542 | " "                                | 6   |      |      | Feeding around school of yellow fin tuna                  |      |
|    | 1558 | Sooty Tern                         | 3   | NE   |      |   |      |
|    | 1558 | Wedgetail Shear.                   | 1   | ○    |      | Dark Phase  |      |
| TF | 1600 | B-F Booby                          | 6   | NE   |      | one immature  |      |
|    |      | Sooty Terns                        | 20+ |      |      |   |      |
| TF | 1610 | Sooty Tern                         | 8   | NE   |      | dark phase  |      |
|    | 1613 | Wt Shearwater                      | 1   | N    |      | dark phase  |      |
|    | 1622 | Sooty Tern                         | 4   | EWE  |      |   |      |
|    | 1630 |                                    |     |      |      | ships ailer lost finger, changed course to random, North. |      |



Noon Position: Hull Island.

DATE 13 February 1966  
Pg. # 2

time species # dir. hgt. remarks loc.

| time    | species                     | #  | dir. | hgt. | remarks  | loc. |
|---------|-----------------------------|----|------|------|--|------|
| 1640    | Sooty Tern                  | 1  | NW   |      |  |      |
| 1641    | Wedgetail                   | 1  | N    |      | dark   |      |
| 1645    | Red-footed Booby            | 1  | E    |      | immature   |      |
| FF 1651 | Sooty Tern                  | 13 |      |      |  |      |
| 1710    | Bulwer's Pt.                | 1  | NE   |      |  |      |
| 1714    | " "                         | 1  | N    |      |  |      |
| 1716    | Sooty Tern                  | 1  | W    |      | ad   |      |
| 1720    | Sooty Tern                  | 1  | N    |      | "  |      |
| 1725    | Sooty Tern                  | 1  | N    |      | "  |      |
| 1729    | Sooty Tern                  | 2  | N    |      | "  |      |
| 1731    | Sooty Tern                  | 1  | N    |      | "  |      |
| 1732    | Sooty Tern                  | 3  | W    |      | "  |      |
| 1733    | Sooty Tern                  | 1  | N    |      | "  |      |
| 1745    | Sooty Tern                  | 1  | NW   |      | "  |      |
| 1757    | B-f Booby                   | 1  | N    |      |  |      |
| 1804    | Sooty Tern                  | 1  | SE   |      | ad.  |      |
| 1821    | Blue F. Booby               | 1  | N    |      | adult.   |      |
| 1828    | Black white-rump Storm pet. | 1  | N    |      |  |      |
| 1831    | "                           | 1  | N    |      |  |      |
| 1831    | Sooty Tern                  | 1  | NE   |      |  |      |
| 1832    | Gray-backed Tern            | 2  | SE   |      |  |      |
| 1833    | Sooty Tern                  | 1  | N    |      |  |      |
| 1834    |                             |    |      |      | porpoise - 35 4 feet long; dark gray above, 1 heading North. |      |
| 1840    |                             |    |      |      | porpoise changed   |      |
| 1848    | Sunset                      |    |      |      | course to east.<br>no sharp line                             |      |
|         |                             |    |      |      | Sunset close observations                                    |      |

Noon Position: 3-04 S; 171-15 W

SI-MNH-958e  
7-28-64

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

DATE 14 February 1966  
Pg. # 1



| time            | species          | #     | dir. | hgt. | remarks   | loc. |
|-----------------|------------------|-------|------|------|---|------|
| 0620            |                  |       |      |      | Begin observations. Ship drifting 3 miles off Canton Island to the West.  |      |
| 0625            | Sooty Tern       | 2     | W    |      | ad.   |      |
| 0630            | Tern sp          | 15    |      |      | all separate sightings - feeding between ship and the beach. All slowly working westward.   |      |
| 0638            |                  |       |      |      | SUNRISE   |      |
| 0639            | Sooty Tern       | 1     | E    |      | ad.   |      |
| 0640            | Gray back Tern   | 3     | E    |      |   |      |
| 0643            | Tern sp.         | 20    |      |      | group feeding ca. 3 mi. Off island (to W.)  |      |
| 0645            | Sooty Tern       | 3     | W    |      |   |      |
| 0652            | Tern sp          | 4     | W    |      |   |      |
| 0655            | Brown Booby      | 1     | W    |      |   |      |
| 0655            | Sooty Tern       | 2     | W    |      |   |      |
| 0659            | Sooty Tern       | 1     | W    |      |   |      |
| 0703            | Sooty Tern       | 1     | ⊙    |      | Feeding about 2 miles off coast   |      |
| 0706            | Sooty Tern       | 10+   | ⊙    |      | feeding several hundred yds. off beach  |      |
| 0710            | Many Terns       |       |      |      | moving in toward beach now and observing many singles & small groups of sooty terns feeding all up and down beach. Hundreds in total number |      |
| 0711            | Brown Booby      | 2     | W    |      |   |      |
| 0715            | Greater Frigate  | 5     | SE   |      | all females   |      |
| 0719            | Brown Booby      | 3     | ⊙    |      | feeding up & down beach   |      |
| 0741            | Sooty Tern       | 10-15 | W    |      | feeding - moving out to sea   |      |
| <del>0741</del> |                  |       |      |      | <del>NO OBSERVATIONS</del>  |      |
| 0745            | Common Noddy     | 1     | W    |      |   |      |
| 0750            |                  |       |      |      | still about 50 scattered terns feeding off shore - at least 40 are gray-backs.  |      |
| 0800            | Common Noddy     | 1     | W    |      |   |      |
| 0801            | Br. booby        | 1     | ⊙    |      |   |      |
| 0810            | " "              | 3     | ⊙    |      | circling ship.  |      |
| 0812            | C. Noddy         | 1     | ⊙    |      |   |      |
| 0815            | Terns sp.        | 10    |      |      | feeding off shore.  |      |
| 0818            |                  |       |      |      |   |      |
| 0815            | Br. Booby        | 1     | S    |      | depart CANTON - course SE   |      |
| 0820            | B-F Booby        | 1     | W    |      | adult   |      |
| 0823            | Terns sp         | 4     | NE   |      |   |      |
| 0824            | Gray-backed Tern | 1     | SW   |      |   |      |
| 0830            | Tern sp.         | 5     | NE   |      |   |      |
| 0846            | Tern sp.         | 5     | S    |      |   |      |
| 0857            | Bl faced Booby   | 1     | ⊙    |      | adult   |      |
| 0904            | Tern sp.         | 8     | NE   |      |   |      |
| 0906            | Tern sp.         | 1     | SE   |      |   |      |
| 0908            | w-t shearwater   | 1     | ⊙    |      | dark phase  |      |
| 0909            | Br. Booby        | 1     |      |      | following ship, immature  |      |

SI-MNH-958e  
7-28-64

Noon Position: 3-04S; 171-15W

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

DATE 14 February 1966  
Pg. # 2



| time    | species                   | #  | dir. | hgt. | remarks                                    | loc.   |
|---------|---------------------------|----|------|------|--|--|
| 0910    | Br. Booby                 | 1  | ⊙    |      | adult                                      |  |
| 0911    | Fairy Terns               | 2  | S    |      |  |  |
| 0916    | Phoenix Is Petrel         | 1  | S    |      |  |  |
| 0920    | Gray-bk Tern              | 1  | ⊙    |      |  |  |
| 0921    | Tern sp.                  | 1  | S    |      |  |  |
| 0923    | Bl.-faced Booby           | 1  | NE   |      |  |  |
| ← 0924  | Tern sp.                  | 4  | ⊙    |      | Collected by Max Thompson (Sooty Tern)     |  |
| 0931    | Sooty Tern                | 2  | NE   |      |  |  |
| 0933    | Gr-bk Tern                | 2  | NE   |      |  |  |
| 0940    | Sooty Tern                | 1  | N    |      |  |  |
| 0948    | " "                       | 1  | NW   |      |  |  |
| 0951    | Storm Petrel              | 1  | SE   |      |  |  |
| 1005    | Sooty Tern                | 1  | NW   |      | Ad   |  |
| 1007    | " "                       | 1  | S    |      | "  |  |
| 1028    | " "                       | 1  | W    |      | " white rump                               |  |
| 1050    | Storm Petrel              | 1  | W    |      |  |  |
| TF 1059 | Noddy Tern                | 6  | S    |      |  |  |
| 1100    | Brown Booby               | 1  | NW   |      | Ad   |  |
| TF 1107 | Frigate birds             | 17 | ⊙    |      | off to SW of ship                          |  |
| 1116    | Wedge-tailed Shear        | 1  | SE   |      | Part Phase                                 |  |
| 1118    | Sooty Tern                | 1  | NW   |      | Ad   |  |
| FF 1121 | Sooty Tern                | 14 |      |      | All Adults                                 |  |
|         | Wedge-tailed Shear        | 2  |      |      | Part Phase                                 |  |
|         | Brown Booby               | 1  |      |      | Ad   |  |
| 1130    | Gray-backed Tern          | 1  |      |      | E  |  |
| 1140    | wedge-tail Shear          | 1  | E    |      | Part Phase                                 |  |
| 1154    |                           |    |      |      |  | Enderbury 8.8 mi ahead. shows well in binocs.              |
| 1200    | Blue grey Noddy           | 1  | E    |      |  |  |
| 1204    | Frigate sp.               | 1  | ⊙    |      |  |  |
| 1205    | White rumped Storm Petrel | 1  | ⊙    |      | very broad white rump patch like Hancock's |  |
| ← 1206  | Hancock's sp.             | 1  |      |      | coll. RSC                                  |  |
| 1215    | Brown Booby               | 1  |      |      | ad   |  |
|         | Frig sp.                  | 1  |      |      | imm. ♂ ♀ like above two                    |  |
| 1219    | W R Storm Petrel          | 2  |      |      |  |  |
| 1221    | Brown Booby               | 1  |      |      | ad   |  |
|         | Blue Face B.              | 1  |      |      | ad   |  |
| 1235    |                           |    |      |      |  | Cease laser observations<br>Enderbury Island < 5 mi ahead. |

Noon Position: 4-04 S; 171-09 W

DATE 16 February 1966

Pg. # 1

Diurnal



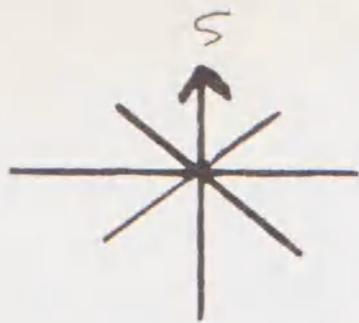
| time    | species         | # | dir. | hgt. | remarks                                      | loc. |
|---------|-----------------|---|------|------|--|------|
| 0720    |                 |   |      |      | Begin observations 6 1/2 mi S. of Enderberg. |      |
| 0720    | Storm Petrel    | 3 | ⊙    |      |  |      |
| 0720    | R.F. Booby      | 1 | NE   |      | ad   |      |
| 0723    | Sooty Tern      | 1 | S    |      | all ad.                                      |      |
| FF 0723 | RF Booby        | 3 | ⊙    | }    | Feeding Flock over school of fish.           |      |
|         | Sooty Tern      | 6 | ⊙    |      |  |      |
|         | Bird            | 2 | ⊙    |      |  |      |
| 0726    | Storm Pet       | 1 | cro  |      | white rump, black                            |      |
| 0726    | Wedgetail       | 1 | E    |      | dark   |      |
| 0726    | Sooty T.        | 1 | E    |      | ad   |      |
| FF 0730 | Sooty T.        | 9 |      |      | FF   |      |
|         | Bird            | 2 |      |      |  |      |
| 0730    | B.F. Booby      | 1 | N    |      | ad   |      |
| 0731    | Sooty T.        | 1 | SE   |      | ad   |      |
| 0732    | Sooty T.        | 2 | S    |      | ad.  |      |
| 0733    | "               | 2 | NE   |      | ad.  |      |
| FF 0734 | Sooty Tern      | 5 |      |      | all ad, feeding.                             |      |
| 0735    | "               | 2 | E    |      | ad - heading toward flock.                   |      |
| FF 0737 | H. Noddy        | 8 |      |      |  |      |
|         | R.F. Booby      | 1 |      |      |  |      |
|         | Wedgetail       | 1 |      |      | dark   |      |
| 0757    | Gray-back Tern  | 3 | E    |      |  |      |
|         | Wedgetail S.    | 1 | S    |      | Dark   |      |
| 0804    | Wedgetail S     | 1 | W    |      |  |      |
| 0810    | Sooty Tern      | 1 | E    |      |  |      |
| 0812    | "               | 2 | E    |      | ad   |      |
| 0814    | Gray Back Tern  | 1 | NE   |      |  |      |
| 0815    | Wedgetail       | 1 | W    |      | dark   |      |
| 0820    | "               | 1 | ⊙    |      | dark   |      |
| 0829    | Tern sp.        | 2 | NE   |      |  |      |
| 0831    | Ruddy Turnstone | 6 | NE   |      |  |      |
| 0837    | Sooty Terns     | 2 | NW   |      | ad   |      |
| FF 0848 | "               | 8 | NW   |      | Feeding                                      |      |
| 0855    | w-t shear       | 1 | M    |      | dark phase                                   |      |
| 0857    | w-t shear       | 1 | E    |      | dark phase                                   |      |
| 0859    | tern sp         | 1 | NW   |      |  |      |
| 0901    | w-t shear       | 1 | SE   |      | dark phase                                   |      |
| 0929    | Sooty Tern      | 3 | E    |      | ad   |      |
| 0931    | "               | 2 | SE   |      | ad   |      |
| 0937    | Wedgetail       | 1 | NE   |      | dark   |      |
| 0939    | Storm Pet       | 1 | NE   |      | white-rumped                                 |      |
| 0949    | "               | 1 | NW   |      | very broad white rump - (Harcourt's?)        |      |
| 0952    | Audubon's Shear | 1 | SE   |      |  |      |



Noon Position: 4-04S; 171-09W

DATE 16 February 1966  
Pg. # 2

| time | species                     | # | dir. | hgt. | remarks  | loc. |
|------|-----------------------------|---|------|------|--|------|
| 0959 | Sooty Tern                  | 3 | E    |      |  |      |
| 1000 | W-t Shear                   | 1 | NW   |      | dark phase                                     |      |
| 1004 | W-R storm Pet               | 1 | WE   |      |  |      |
| 1012 | wedge tail                  | 1 | E    |      | dark phase                                     |      |
| 1014 | W-R Storm Pet               | 1 | E    |      |  |      |
| 1027 | G-Backed tern               | 1 | Q    |      |  |      |
|      | sooty tern                  | 1 | Q    |      |  |      |
| 1031 | sooty tern                  | 2 | W    |      |  |      |
| 1100 | " "                         | 1 | W    |      |  |      |
| 1104 | " "                         | 1 | W    |      |  |      |
| 1111 |                             |   |      |      | school of ca. 20 very dark porpoise heading S. |      |
| 1115 | sooty tern                  | 1 | N    |      |  |      |
| 1117 | " "                         | 1 | N    |      |  |      |
| 1123 | wedgetail                   | 1 | E    |      | dark phase                                     |      |
| 1145 | Bl-faced Booby              | 1 | N    |      | was sitting on water                           |      |
| 1210 |                             |   |      |      |  |      |
| 1218 | Storm Petrel                | 1 | S    |      | Porpoises 20+ (+ 20 more)                      |      |
| 1225 | Gray-Backed Tern            | 1 | SW   |      | white rump.                                    |      |
| 1230 | Wedge tail                  | 1 | Q    |      | dark phase                                     |      |
| 1240 | wedgetail                   | 1 | Q    |      | dark phase                                     |      |
| 1242 | <del>Gray-backed</del> tern | 1 | NW   |      |  |      |
| 1245 |                             |   |      |      | Sooty tern                                     |      |
| 1252 | <del>Gray-backed</del> tern | 3 | W    |      | Sydney island appeared off our starboard       |      |
| 1310 | wedgetail shear             | 1 | N    |      | low (SEW)                                      |      |
|      |                             |   |      |      | dk. phase                                      |      |
| 1320 | Storm Petrel                | 1 | W    |      |  |      |
| 1320 |                             |   |      |      | <u>Porpoise</u> 1                              |      |
| 1327 | Sooty tern                  | 1 | E    |      |  |      |
| 1340 | Storm Petrel                | 1 | Q    |      |  |      |
| 1340 | Brown Booby                 | 1 |      |      | following ship                                 |      |
| 1342 | B-F Booby                   | 1 |      |      | on deck  |      |
| 1345 | Sooty tern                  | 2 |      |      | going to Sydney                                |      |
| 1350 |                             |   |      |      | Sydney island now off our beam                 |      |
| 1355 | Gray-backed Tern            | 1 |      |      | feeding  |      |
| 1409 | " "                         | 1 | SW   |      |  |      |
| 1410 | " "                         | 1 | NW   |      |  |      |
| 1440 | G.B. Tern                   | 1 | S    |      |  |      |
| 1440 | <del>Porpoise</del>         | 1 |      |      | Porpoise - 25, South "spinner type"            |      |
| 1443 | Golden Plover               | 2 | NW   |      |  |      |



NOON Position: 4-04 S; 171-09 W

DATE 16 Feb. 66  
Pg. # 3

SIC 11

| time    | species                            | #  | dir. | hgt. | remarks                      | loc. |
|---------|------------------------------------|----|------|------|------------------------------|------|
| 1511    | B.F. Booby                         | 1  | N    |      | ad                           |      |
| 1511    | G.B. Tern                          | 1  | N    |      |                              |      |
| 1522    | Tern sp.                           | 1  | N    |      |                              |      |
| 1530    | Wedgetail                          | 1  | W    |      | dark                         |      |
| 1535    | w.-R. Storm Pet.<br>(Leach's type) | 2  | —    |      |                              |      |
| 1600    | B.F. Booby                         | 1  | E    |      | adult.                       |      |
| 1637    | sooty Tern                         | 3  | SE   |      | adult                        |      |
| 1703    | " "                                | 1  | NW   |      |                              |      |
| 1713    | Xmas Is.<br>Shear                  | 1  | E    |      |                              |      |
| FF 1717 | sooty Terns                        | 10 |      |      | feeding at natural slick     |      |
| 1758    | Sooty Tern                         | 1  | NE   |      |                              |      |
| 1825    | Frigate Spec.                      | 1  | ↻    | 350  |                              |      |
| 1847    |                                    |    |      |      | close observations - Sunset. |      |

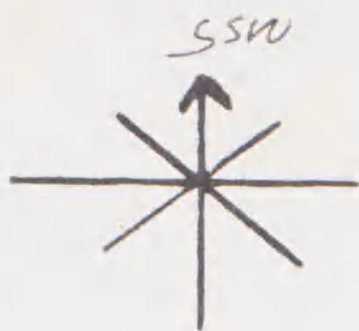


Noon Position: 8-29.5 - 170-58W

DATE 17 February 1966  
Pg. # 1

| time    | species                 | #  | dir. | hgt. | remarks   | loc. |
|---------|-------------------------|----|------|------|---|------|
| 0615    |                         |    |      |      | Begin observations  |      |
| 0620    |                         |    |      |      | Rain squall off to south west - other smaller in other dir    |      |
| 0630    |                         |    |      |      | Sunrise   |      |
| 0632    | Wedgetail               | 1  | ⊙    |      | Dark phase  |      |
| 0636    | Tern sp.                | 1  | W    |      | sooty or Grey back  |      |
| 0700    |                         |    |      |      | Running through rain storm                                    |      |
| 0714    | W.R. Storm P            | 2  | ⊙    |      | two different types   |      |
| 0716    | Bulwers Pet             | 1  | ⊙    |      |   |      |
| 0727    | Wedgetail               | 1  | S    |      | dark phase  |      |
| 0729    | W.R. Storm Pet          | 1  | ⊙    |      |   |      |
| 0916    | WT Tropicbird           | 1  | ⊙    |      |   |      |
| 0945    | " "                     | 1  | E    |      |   |      |
| 1117    | W-R storm Petrel        | 1  | E    |      |   |      |
| C 1219  | White-tailed Tropicbird | 1  |      |      | M Thompson (sitting on H <sub>2</sub> O)                      |      |
| C 1240  | Heard's S. Petrel       | 1  |      |      | Frank Smith   |      |
| 1258    | W.R. Storm Pet          | 1  | ⊙    |      |   |      |
| C 1340  | White-tailed Tropicbird | 1  |      |      | young   |      |
|         | W-R. Storm Petrel       | 1  | ⊙    |      |   |      |
| 1423    | WTTB                    | 1  | ⊙    |      | ad  |      |
| 1450    | WTTB                    | 1  |      |      | sitting on H <sub>2</sub> O, ad.                              |      |
| FF 1505 | Sooty Tern              | 3  | }    |      | Feeding flock.  |      |
|         | Fairy Tern              | 3  |      |      |   |      |
|         | Frigate                 | 1  |      |      |   |      |
| FF 1515 | Sooty Tern              | 12 |      |      | all adult.  |      |
|         | Fairy "                 | 3  |      |      |   |      |
|         | Wedgetail               | 1  |      |      | dark  |      |
| 1550    | WTTB                    | 1  |      |      | imm.  |      |
|         | Fairy Tern              | 1  |      |      | white.  |      |
| FF 1610 | Sooty Tern              | 8  |      |      |   |      |
| 1637    |                         |    |      |      | heading 203°  |      |
|         |                         |    |      |      | sited Fakaofo IS 30° on the starboard <del>side</del> horizon |      |
| 1650    | Red-f. Booby            | 1  | E    |      |   |      |
| 1700    | Frigate                 | 1  | ⊙    |      |   |      |
| 1705    | Birds sp                | 2  | W    |      |   |      |
| 1706    | Tern                    | 1  | W    |      | white   |      |
| 1707    | Red-footed Booby        | 1  | W    |      | immature  |      |
| FF 1720 | Fairy Terns             | 14 |      |      | dark phase  |      |
|         | Frigates (Lesser)       | 6  |      |      |   |      |
|         | WT Shear                | 5  |      |      |   |      |
|         | W-R Storm Pet           | 3  |      |      |   |      |





Noon Position: 8-29S; 170-58W

DATE 17 February 1966  
Pg. # 2

|    | time | species              | #   | dir. | hgt. | remarks   | loc. |
|----|------|----------------------|-----|------|------|---|------|
|    | 1735 | Lesser Frigate       | 1   | ☉    |      | ♂   |      |
|    | 1741 | Frigates             | 3   | ☉    |      | soaring   |      |
|    | 1745 | Frigates (Lesser)    | 2   | ☉    |      | soaring   |      |
| FF | 1749 | Tern sp.             | 14  |      |      | light body, darker dorsum, some black on dorsum |      |
| FF | 1755 | Fairy Terns          | 100 |      |      |   |      |
|    |      | Com Noddy Terns      | 100 |      |      |   |      |
| FF | 1757 | Com Noddy Terns      | 75  |      |      | moving west                                     |      |
|    | 1801 | Audubon's Shearwater | 1   | W    |      |   |      |
| C  | 1815 | Golden Plover        | 1   |      |      | shot by HERYFORD                                |      |
| FF | 1820 | Tern sp.             | 12  |      |      |   |      |
| FF | 1825 | Fairy Terns          | 14  |      |      |   |      |
|    |      | Com Noddy Terns      | 20  |      |      |   |      |
|    | 1830 | Birds sp.            | 2   | S    |      |   |      |
| -  | 1832 | Fairy Tern           | 1   | W    |      |   |      |
|    | 1836 | " "                  | 1   | W    |      |   |      |
|    | 1840 | Fairy Tern           | 3   | W    |      |   |      |
|    | 1846 |                      |     |      |      | <del>SUNSET</del> observations stopped          |      |

022222



Moon Position: Swain's Island

DATE 18 February 1966  
Pg. # 1

| time    | species          | #  | dir. | hgt. | remarks                                 | loc.       |
|---------|------------------|----|------|------|---|------------|
| 1120    |                  |    |      |      | 300 yds off Swain's Island              |            |
| 1125    |                  |    |      |      | started to Samoa heading south          |            |
| 1136    | Fairy Tern       | 1  | N    |      |   |            |
| 1140    | Common Noddy     | 1  | M    |      |   |            |
| 1142    | Fairy Tern       | 1  | N    |      |   |            |
| 1145    | Fairy Tern       | 1  | N    |      |   |            |
| 1147    | Fairy Tern       | 1  | W    |      |   |            |
| 1155    | Fairy Tern       | 1  |      |      | feeding                                 |            |
| 1215    | " "              | 1  | E    |      |   |            |
| 1225    | Pterodroma sp    | 1  | SW   |      |   |            |
| 1325    | Fairy Tern       | 1  | E    |      |   |            |
| 1348    | WT Tropicbird    | 1  | ⊙    |      | off Hz <sup>d</sup>                     |            |
| 1430    | Fairy Tern       | 2  |      |      | Feeding                                 |            |
|         | Noddy "          | 1  |      |      |   |            |
| 1435    |                  |    |      |      |   |            |
| 1539    |                  |    |      |      | porpoise jump. <del>single</del> 5 or 6 |            |
| 1609    | W-t Shearwater   | 1  |      |      | rain squalls all over the place.        |            |
|         |                  |    |      |      | dark phase                              |            |
| 1734    | W-t Shearwater   | 1  |      |      | dark phase                              |            |
| 1736    | W-r Storm Petrel | 1  | S    |      |   |            |
| 1759    | Common Noddy     | 1  |      |      | * on large glass fish ball              |            |
| 1816    | W-r Storm Petrel | 2  | NW   |      |   |            |
| 1817    | Petrel sp.       | 1  | N    |      | black wing (possibly Gould's)           |            |
| 1821    | Red-footed Booby | 1  | E    |      | } immature } all together               |            |
|         | Brown Booby      | 1  | E    |      |   |            |
|         | W-t Shearwater   | 1  | E    |      |   | dark phase |
| FF 1831 | Fairy Tern       | 18 |      |      | mostly dark phase                       |            |
|         | W-t Shearwater   | 20 |      |      |   |            |
| 1852    |                  |    |      |      | Sunset, closed observations             |            |

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

Noon Position: Pago Pago, American Samoa.

DATE Feb 23, 66

Pg. # 1

|    | time | species                 | #  | dir. | hgt. | remarks              | loc. |
|----|------|-------------------------|----|------|------|----------------------|------|
|    | 1200 |                         |    |      |      | Depart Pago Pago     |      |
|    | 1215 |                         |    |      |      | Begin Observations   |      |
| FF | 1218 | Noddy Tern              | 20 |      |      | Dark Phase           |      |
|    |      | wedge-tailed Shearwater | 2  |      |      |                      |      |
| FF | 1219 | Fairy Tern              | 8  |      |      | Travelling No Flud's |      |
|    | 1224 | Fairy Tern              | 8  |      |      |                      |      |
| TF |      | Noddy Tern              | 8  |      |      | Light Phase Adults   |      |
|    |      | Red-tailed Booby        | 3  |      |      |                      |      |
| FF | 1228 | Noddy Tern              | 5  |      |      |                      |      |
|    |      | Blue-gray Noddy         | 1  |      |      |                      |      |
|    |      | Fairy Tern              | 2  |      |      |                      |      |
|    | 1229 | WT Tropicbird           | 1  |      |      | Ad Dark Phase        |      |
| TF | 1232 | Red-tailed Booby        | 5  |      |      |                      |      |
|    | 1233 | Noddy Tern              | 3  |      |      | Ad. Dark.            |      |
|    | 1234 | Fairy Tern              | 4  |      |      |                      |      |
|    | 1235 | " "                     | 2  | E    |      |                      |      |
|    | 1236 | C. Noddy                | 3  |      |      | Ad. Dark.            |      |
|    | 1237 | RFB                     | 3  |      |      |                      |      |
|    | 1238 | C. Noddy                | 4  | SE   |      |                      |      |
|    | 1238 | Fairy Tern              | 3  | SE   |      |                      |      |
|    | 1239 | C. Noddy                | 2  | SE   |      |                      |      |
|    | 1241 | Fairy Tern              | 1  | E    |      |                      |      |
|    | 1242 | C. Noddy                | 3  | ⊙    |      |                      |      |
|    | 1243 | C. Noddy                | 2  | E    |      |                      |      |
|    | 1244 | " "                     | 3  | E    |      |                      |      |
|    | 1245 | Fairy Tern              | 2  | SE   |      |                      |      |
|    | 1246 | WTTB                    | 1  | E    |      |                      |      |
|    | 1250 | Fairy Tern              | 4  | S    |      | Feeding              |      |
| FF | 1252 | C. Noddy                | 30 |      |      |                      |      |
|    |      | Fairy Tern              | 12 |      |      |                      |      |
|    |      | WTTB                    | 2  |      |      |                      |      |
|    | 1254 | Bulwer Pet              | 1  | SE   |      | Ad. Dark             |      |
|    | 1256 | RFB                     | 3  | ⊙    |      |                      |      |
|    | 1258 | Frigate                 | 3  | W    |      |                      |      |
|    | 1259 | Fairy Tern              | 3  | E    |      |                      |      |

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

Noon Position: Pago Pago, American Samoa

DATE 23 Feb 66  
Pg. # 2

|    | time | species                 | #   | dir. | hgt. | remarks         | loc. |
|----|------|-------------------------|-----|------|------|-----------------|------|
|    | 1300 | RFB                     | 1   | ⊙    |      | Ad Dark         |      |
|    | 1301 | RFB                     | 3   | ⊙    |      | 2 Ad Dark 1 imm |      |
|    | 1302 | C. Noddy                | 3   | E    |      |                 |      |
|    | 1303 | Fairy Tern              | 3   | E    |      |                 |      |
|    | 1304 | Bon Booby               | 3   | ⊙    |      |                 |      |
|    | 1305 | AFB                     | 2   | E    |      | Ad. Dark        |      |
|    | 1306 | Brown Booby             | 1   | E    |      |                 |      |
|    | 1307 | Fairy Tern              | 4   |      |      |                 |      |
|    |      | Noddy Tern              | 12  |      |      | No Flocks       |      |
| FF | 1308 | Noddy Tern              | 30  |      |      |                 |      |
|    |      | Fairy Tern              | 15  |      |      |                 |      |
|    |      | RFB                     | 2   |      |      | Ad Dark 1       |      |
| FF | 1309 | RFB                     | 2   | ⊙    |      | Imm             |      |
|    | 1310 | Noddy Tern              | 50+ |      |      |                 |      |
|    |      | Fairy Tern              | 20+ |      |      |                 |      |
|    | 1311 | Brown Booby             | 1   |      |      | Ad              |      |
|    | 1313 | Blue-gray Noddy         | 1   | SE   |      |                 |      |
| FF | 1314 | Fairy Tern              | 6   | ⊙    |      |                 |      |
|    | 1318 | C Noddy                 | 17  | SE   |      | No a Flocks     |      |
|    | 1320 | Fairy Tern              | 7   | SE   |      | No a Flocks     |      |
|    | 1321 | C Noddy                 | 4   | E    |      |                 |      |
| TF | 1326 | C Noddy                 | 4   | E    |      |                 |      |
|    |      | Fairy Tern              | 1   | E    |      |                 |      |
|    |      | Wedge-Tail Shear        | 1   | N    |      | Dark Phase      |      |
|    | 1328 | C Noddy                 | 4   | W    |      |                 |      |
| TF | 1329 | C Noddy                 | 4   | E    |      |                 |      |
|    |      | Fairy Tern              | 1   | E    |      |                 |      |
| TF | 1333 | C Noddy                 | 4   | E    |      |                 |      |
|    |      | Shear/Pet               | 1   | E    |      |                 |      |
| TF | 1335 | Fairy Tern              | 7   | E    |      | Flocks          |      |
|    | 1334 | C. Noddy                | 4   | E    |      |                 |      |
| FF | 1338 | Fairy Tern              | 4   | SE   |      |                 |      |
|    |      | C Noddy                 | 2   | SE   |      |                 |      |
|    | 1339 | C Noddy                 | 4   |      |      |                 |      |
|    | 1345 | C Noddy                 | 3   | W    |      |                 |      |
|    |      | Fairy Tern              | 4   | E    |      |                 |      |
|    | 1347 | Wedge-Tailed Shearwater | 2   | ⊙    |      | Dark Phase      |      |
| FF | 1349 | C. Noddy                | 30  | ⊙-E  |      |                 |      |
|    |      | Fairy Tern              | 7   | ⊙-E  |      | Dark phase      |      |
|    |      | Wedge Tailed Shearwater | 1   |      |      |                 |      |
|    |      | Blue-gray Noddy         | 1   |      |      |                 |      |

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

NOON Position: Pago Pago, American Samoa.

DATE 23 Feb 64  
Pg. # 3

|    | time | species            | #     | dir. | hgt. | remarks                    | loc. |
|----|------|--------------------|-------|------|------|----------------------------|------|
| FF | 1352 | C Noddy            | 100   |      |      |                            |      |
|    |      | Fairy Tern         | 10    |      |      |                            |      |
|    |      | Shear/pet          | 7±    |      |      | probably Davis Wedge-tails |      |
| FF | 1353 | Brown Booby        | 1     |      |      |                            |      |
|    |      | C Noddy            | 30+   |      |      |                            |      |
|    |      | Wedge-tailed Shear | 2     |      |      | Dark phase                 |      |
|    | 1357 | C Noddy            | 7     | E    |      | No Flocks                  |      |
|    |      | Fairy Tern         | 2     | E    |      |                            |      |
| FF | 1358 | C. Noddy           | 15±   |      |      | Feeding                    |      |
|    |      | Fairy Tern         | 15±   |      |      | probably dark wt.          |      |
|    |      | Shear-p of         | 5     |      |      |                            |      |
|    |      | Brn Booby          | 2     |      |      |                            |      |
|    | 1400 | Fairy Tern         | 4     | E    |      |                            |      |
|    | 1401 | C. Noddy           | 16    | E    |      | Nota flock                 |      |
|    | 1402 | Fairy Tern         | 3     | E    |      |                            |      |
|    | 1404 | C. Noddy           | 4     | E    |      |                            |      |
|    | 1405 | Wedgetail          | 1     | N    |      | dark                       |      |
|    | 1407 | C. Noddy           | 3     | E    |      |                            |      |
|    | 1409 | C. Noddy           | 4     | E    |      |                            |      |
| TF | 1410 | C. Noddy           | 11    | E    |      | Travelling F               |      |
| FF | 1412 | C Noddy            | 30+ @ |      |      |                            |      |
|    |      | Shear/pet          | 2     |      |      |                            |      |
|    |      | Fairy Tern         | 4     |      |      |                            |      |
|    | 1413 | Red-footed Booby   | 3     | E    |      | Ad Davis Phase.            |      |
|    | 1414 | wedge-tailed shear | 2     | E    |      | Dark phase                 |      |
|    | 1416 | Fairy Tern         | 2     | W    |      |                            |      |
|    | 1417 | RFB                | 2     | NE   |      | Davis Phase                |      |
|    | 1422 | "                  | 2     | NE   |      | dark phase, 1 ad.          |      |
|    | 1423 | C Noddy tern       | 2     | NE   |      |                            |      |
|    | 1425 | RFB                | 1     | NE   |      | ad. dark phase             |      |
|    | 1426 | "                  | 2     | NE   |      | dark phase                 |      |
| FF | 1430 | C. N. tern         | 12    |      |      | feeding, fish jumping      |      |
|    |      | Fairy Tern         | 2     |      |      |                            |      |
|    |      | RFB                | 1     |      |      |                            |      |
|    |      | Wedgetail          | 2     |      |      | sub phase                  |      |
| TF | 1436 | Common N.t.        | 4     |      |      |                            |      |
|    |      | RFB                | 2     | E    |      | Dark phase                 |      |
| TF | 1442 | Common Noddy Tern  | 5     |      |      | traveling                  |      |
|    |      | RFB                | 6     | E    |      | Dark phase                 |      |

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

Noon Position: Pago Pago, American Samoa.

DATE 23 Feb 1966  
Pg. # 4

|                         | time | species           | #  | dir. | hgt. | remarks                        | loc. |
|-------------------------|------|-------------------|----|------|------|--------------------------------|------|
| TF                      | 1448 | Com. Noddy Tern   | 5  | E    |      |                                |      |
|                         | 1450 | R.F. Booby        | 2  | E    |      | Dark phase                     |      |
|                         | 1510 | R.F. Booby        | 3  | S    |      | Dark phase                     |      |
|                         | 1513 | A.F. Booby        | 1  | N    |      | Dark phase                     |      |
| TF                      | 1516 | Common Noddy Tern | 18 | E    |      |                                |      |
|                         | 1516 | RFB               | 1  | E    |      | Dark phase                     |      |
|                         | 1520 | "                 | 2  | ☉    |      | " "                            |      |
|                         | 1522 | Aud. Shear        | 1  | N    |      |                                |      |
| TF                      | 1523 | CNT               | 16 | E    |      |                                |      |
|                         | 1524 | CNT               | 4  | E    |      |                                |      |
| FF                      | 1525 | CNT               | 42 | ☉    |      |                                |      |
| TF moving towards flock | 1526 | CNT               | 4  | E    |      | → moving toward previous flock |      |
|                         |      | Fairy Tern        | 1  |      |      |                                |      |
| leaving flock           | 1527 | CNT               | 1  |      |      | → "                            |      |
| "                       | 1528 | CNT               | 1  | SW   |      | leaving flock                  |      |
| "                       | 1529 | CNT               | 1  | SW   |      | leaving flock                  |      |
|                         | 1532 | Fairy Tern        | 1  | E    |      |                                |      |
|                         | 1635 | Booby             | 1  | SW   |      | immature                       |      |
|                         | 1645 | W.T. Tropicbird   | 1  |      |      | → on water                     |      |
|                         | 1709 | Fairy Tern        | 1  | S    |      |                                |      |
|                         | 1730 | w-t shearwater    | 3  | W    |      | dark phase                     |      |
|                         | 1732 | Shear/Pet         | 1  | N    |      |                                |      |
|                         | 1733 | Tern              | 1  | W    |      | Fairy Tern?                    |      |
|                         | 1747 | WTTB              | 1  | SE   |      |                                |      |
|                         | 1750 | Shear/Pet         | 1  | S    |      | white belly, dark back         |      |
|                         | 1751 | Bird sp           | 1  |      |      |                                |      |
|                         | 1848 |                   |    |      |      | Sunset                         |      |

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



Noon Position: Swain's Island

DATE Feb 24 66  
Pg. # 1

| time      | species        | #      | dir. | hgt. | remarks                              | loc.                         |
|-----------|----------------|--------|------|------|--------------------------------------|------------------------------|
| 0628      |                |        |      |      | Service begin observation            |                              |
| 0630      | wedge tail     | 1      | NW   |      | Dark Phase                           | 15 miles from Swain's Island |
| 0630      |                |        |      |      | rain squalls all around.             |                              |
| 0700      |                |        |      |      | " " " "                              |                              |
| 0707      | Fairy Tern     | 1      | E    |      | white.                               |                              |
| 0721      | C. Noddy       | 1      | E    |      |                                      |                              |
| 0730      |                |        |      |      | rain squalls to NE, NW, S.           |                              |
| 0730      |                |        |      |      | island 5 miles N.                    |                              |
| 0737      | Fairy Tern     | 1      | S    |      |                                      |                              |
| 0750      | CNT            | 1      | SW   |      |                                      |                              |
| 0802      | CNT            | 4      | SW   |      |                                      |                              |
| 0806      | CNT            | 4      | SW   |      |                                      |                              |
| 0807      | CNT            | 1      | SW   |      |                                      |                              |
| 0810      |                |        |      |      | cease observations                   |                              |
| 1220      |                |        |      |      | Begin observations leave Swain's Is. |                              |
| 1222      | Sooty Terns    | 3      | ⊙    |      | New course 335° NW                   |                              |
| 1223      | Fairy Tern     | 1      |      |      | heading back for island              |                              |
| F.F. 1227 | C. Noddy Tern  | 100±15 | ⊙    |      |                                      |                              |
| 1230      | Noddy Tern     | 3      | W    |      |                                      |                              |
| 1231      | "              | 1      | NW   |      |                                      |                              |
| 1236      | Fairy tern     | 1      | S    |      | toward island.                       |                              |
| 1243      | "              | 1      | SE   |      | toward island                        |                              |
| 1246      | C. Noddy Tern  | 1      | SE   |      | "                                    |                              |
| 1246      | Fairy Tern     | 1      | SE   |      | "                                    |                              |
| 1250      | C. Noddy Tern  | 6      | NW   |      | strung out - no distinct flock       |                              |
| 1252      | "              | 4      | W    |      | "                                    |                              |
| 1253      | "              | 1      | W    |      | "                                    |                              |
| 1306      | Fairy Tern     | 1      | N    |      |                                      |                              |
| FF 1315   | Common Noddy   | 60±5   |      |      | feeding                              |                              |
| 1351      | Fairy Tern     | 2      | SE   |      | traveling separately                 |                              |
| 1400      | " "            | 2      | E    |      | together                             |                              |
| 1430      | Common Noddy   | 1      | -    |      | sitting on log                       |                              |
| 1435      | Wedgetail      | 1      | E    |      | dark                                 |                              |
| C 1445    | WTTB           | 1      | ⊙    |      | sub adult (coll. J.L.)               |                              |
| 1504      | WTTB           | 1      | E    |      | adult                                |                              |
| 1507      | Brown Booby    | 1      | NE   |      | Adult                                |                              |
| 1553      | W-t Shearwater | 1      | NW   |      | dark phase                           |                              |

SI-MNH-958e  
7-28-64

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

DATE 24 Feb. 1966  
Pg. # 2



Noon Position: Swain's Island.

| time    | species    | # | dir. | hgt. | remarks                     | loc. |
|---------|------------|---|------|------|-----------------------------|------|
|         |            |   |      |      | heading 335°                |      |
| 1634    | Shear/Pet  | 1 |      |      |                             |      |
| 1658    | Fairy Tern | 1 | N    |      |                             |      |
| 1721    | Fairy Tern | 1 | S    |      |                             |      |
|         | CNT        | 2 | S    |      |                             |      |
| FF 1748 | Fairy Tern | 6 |      |      | seen over fish jumping.     |      |
| 1755    | Fairy Tern | 1 | E    |      |                             |      |
| 1810    | Tern sp.   | 2 | NE   |      | Too far to identify species |      |
| 1837    | Tern sp.   | 3 | NE   |      | Fairy or Black-naped        |      |
| 1849    |            |   |      |      | sunset!                     |      |





Moon position: 7-235; 172-46W

DATE Feb 25, 1966  
Pg. # 1

|    | time | species         | #  | dir. | hgt. | remarks   | loc. |
|----|------|-----------------|----|------|------|---|------|
|    | 0633 |                 |    |      |      | Sunrise   |      |
| TF | 0714 | Sooty Tern      | 44 | ☉    |      | Adult   |      |
|    |      | Wedgetail Shear | 2  | ☉    |      | 1 light phase, 1 dark                                 |      |
|    | 0835 | Sooty Tern      | 2  | S    |      | ad's.   |      |
|    | 0928 | WTTB            | 2  |      |      | sitting on H <sub>2</sub> O Ad.                       |      |
|    | 0940 | R.F. Booby      | 1  |      |      | " " "   |      |
|    |      | Jaegers sp.     | 2  | ☉    |      | Dark Phase  |      |
|    | 1012 | Sooty Terns     | 2  | NW   |      | adults.   |      |
|    | 1054 | WTTB            | 1  |      |      | sitting on H <sub>2</sub> O. ADULT.                   |      |
|    | 1110 | Sooty Tern      | 1  | NW   |      | adult.  |      |
|    | 1117 | " "             | 1  | SE   |      | "   |      |
|    | 1118 | " "             | 2  | SW   |      | "   |      |
|    | 1153 | Wedgetail Shear | 1  | ☉    |      | Dark phase  |      |
|    | 1154 | " "             | 1  | ☉    |      | Dark phase  |      |
|    | 1329 | " "             | 1  | ☉    |      | dark.   |      |
|    | 1410 | Sooty Tern      | 3  | SW   |      | Ad  |      |
|    | 1416 | C Noddy         | 1  | W    |      |   |      |
| C  | 1435 | Sooty Tern      | 3  | E    |      | 2 Ad (1 from collected M. Thompson)                   |      |
| TF | 1502 | " "             | 11 | E    |      | All Adults  |      |
|    | 1506 | Fairy Tern      | 1  | ☉    |      | Feeding   |      |
|    | 1525 | Sooty Tern      | 1  | W    |      | Ad  |      |
|    | 1534 |                 |    |      |      | Whale spotted & sounded                               |      |
|    | 1547 | Storm Petrel    | 1  | E    |      | white rump  |      |
|    | 1615 |                 |    |      |      | Large areas of rain over northern & eastern horizons. |      |
|    | 1658 | Sooty Tern      | 1  | N    |      | Ad.   |      |
|    | 1722 | WTTB            | 1  | ☉    |      |   |      |
|    | 1723 | Goulds' Petrel  | 1  | ☉    |      |   |      |
|    | 1730 | Petrel          | 1  | N    |      | Phoenix Is. or Tahiti                                 |      |
|    | 1824 | Storm Petrel    | 1  | E    |      | white rump.   |      |
|    | 1830 | " "             | 1  | SE   |      | white rump  |      |
|    | 1954 |                 |    |      |      | Sun set - cease observations                          |      |

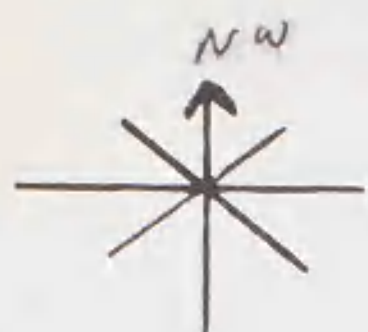


Noon Position: 3-35 S; 174-40 W

DATE 26 February  
Pg. # 1

|    | time | species            | # | dir. | hgt. | remarks  | loc. |
|----|------|--------------------|---|------|------|--|------|
|    | 0644 |                    |   |      |      | Sunrise begin observations                               |      |
|    | 0644 | Blue-gray N.T.     | 2 |      |      | Following ship   |      |
|    | 0650 | Aud. Shear.        | 1 | S    |      |  |      |
|    | 0651 | Sooty Tern         | 1 | S    |      | Adult  |      |
|    | 0654 | "                  | 1 | SE   |      | Adult  |      |
|    | 0655 | Porpoise           |   |      |      | several following ship                                   |      |
|    | 0700 | BFB                | 1 | W    |      | ad.  |      |
|    | 0704 | bird               | 1 | S    |      | small, dark, prob. storm pet.                            |      |
|    | 0706 | Storm Petrel       | 2 | ☉    |      | wide white rumps, Prob. Harcourt's.                      |      |
| TF | 0715 | Sooty Tern         | 6 | ☉    |      | searching, not actively feeding; ad.'s                   |      |
|    | 0720 | Sooty Tern         | 1 | ☉    |      | adult  |      |
|    | 0724 | Tropic bird sp     | 1 | ☉    |      |  |      |
|    | 0724 | Blue faced Booby   | 1 | ☉    |      | adult  |      |
|    | 0724 | Storm Pet. sp      | 1 | ☉    |      |  |      |
| FF | 0734 | sooty tern         | 9 |      |      | 7 ad's, 2 imm. } feeding actively, fish jumping          |      |
|    |      | Blue-gray noddy    | 2 |      |      |  |      |
|    | 0736 | sooty tern         | 1 | NE   |      | adult  |      |
|    | 0742 | white h. Storm Pet | 1 | NE   |      | probably Leach's   |      |
|    | 0752 | Bulweria           | 1 | ☉    |      |  |      |
| BC | 0800 | BFB                | 1 |      |      | SA collected (P. Husted) Banded C. McKeun Oct. 64        |      |
|    | 0808 | Sooty Tern         | 1 | S    |      | Ad   |      |
|    | 0812 | " "                | 1 | S    |      |  |      |
|    | 0813 | BFB                | 2 | E    |      | Ad   |      |
|    | 0814 | Storm Pet          | 1 | ☉    |      | white rump   |      |
|    | 0815 | Sooty Tern         | 3 | SE   |      |  |      |
| TF | 0817 | " "                | 5 | S    |      | All Adults   |      |
|    | 0819 | " "                | 2 | S    |      | Ad   |      |
|    | 0821 | BFB                | 3 |      |      | Sitting on H <sub>2</sub> O All Adults                   |      |
|    | 0823 | Storm Pet          | 2 |      |      | white rump   |      |
|    | 0824 | " "                | 2 |      |      | white rump   |      |
|    | 0825 | Sooty Tern         | 2 | S    |      |  |      |
|    | 0828 | " "                | 2 | S    |      | 2 Im 2 Ad (Ad collected P. Husted)                       |      |
| BC | 0831 | BFB                | 1 |      |      | Sub Ad Banded collected P. Husted Phoenix Isl. Nov 64    |      |
|    | 0840 | Sooty Tern         | 2 | ☉    |      | 568-72131  |      |
|    | 0841 | W.R. Storm Pet     | 1 | NE   |      | small white rump rufous                                  |      |
|    | 0845 | " " "              | 2 | ☉    |      | " " " "  |      |
|    | 0846 | " " "              | 1 | W    |      | " " " "  |      |
|    | 0847 | Sooty Tern         | 4 | SW   |      | 3 imm 1 Ad   |      |
|    | 0849 | W.R. Storm Pet     | 3 |      |      | broad white rump, sitting on H <sub>2</sub> O some white |      |
|    | 0850 | " " "              | 1 |      |      |  |      |
|    | 0851 | " " "              | 1 | ☉    |      | small white rump   |      |
|    | 0852 | " " "              | 5 | ☉    |      | large rump patches                                       |      |
| IC | 0853 | Leach's Storm      | 1 | ☉    |      | fairly large rump rufous                                 |      |
|    | 0855 | W.R. Storm Pet     | 3 | ☉    |      | small white "  |      |
|    | 0900 | Wedgetail          | 1 | SW   |      | intermediate phase                                       |      |
|    | 0902 | BFB                | 1 | S    |      | Ad   |      |
|    | 0904 | W.R. Storm Pet     | 1 | ☉    |      | small rump patch   |      |
|    | 0906 | S.B.T.             | 2 | W    |      |  |      |
|    | 0908 | W.R. Storm Pet     | 2 | ☉    |      |  |      |

approaching island



moon Position: 3-353; 174-40 W

DATE 26 Feb  
Pg. # 2

| time   | species                     | # | dir. | hgt. | remarks   | loc.                     |
|--------|-----------------------------|---|------|------|---|--------------------------|
| 0910   | Sooty Tern                  | 4 | sw   |      | Ad  | approaching large squall |
| 0911   | wedgetail                   | 2 | w    |      | dark  |                          |
| 0912   | w. R. Storm Pet             | 5 | sw   |      | couldn't see rump petal clearly   |                          |
| 0913   | Sooty Tern                  | 3 | S    |      | Ad.   |                          |
| 0919   | " "                         | 5 | SE   |      | Ad  |                          |
| 1008   | Bulwer's Pet                | 1 | ⊙    |      | in rain   |                          |
| 1012   | Sooty Tern                  | 2 | E    |      | adults in rain  |                          |
| 1018   | Storm Pet                   | 1 |      |      | in rain   |                          |
| 1022   | Storm Pet                   | 1 | W    |      | white rumped in rain  |                          |
| 1042   | Shear/Pet                   | 1 | E    |      |   |                          |
| 1046   | Storm Pet                   | 1 | W    |      | white rumped  |                          |
| 1110   | Storm Pet                   | 1 |      |      |   |                          |
| 1150   | Petrel                      | 1 | E    |      | petrel flying like a storm petrel but as large as <i>P. leucoptera</i> . Very broad wings, all black underneath top. Tail black, and held fan-shaped all the while observed (3 min) head and back dark. Not flying like a <i>Pterodroma</i> . Belly was white. Profile similar to sharp-shin hawk. <u>Not</u> a Tahiti, Phoenix or Kermadec petrel. |                          |
| 1202   | Goulds Pet.                 | 1 | ⊙    |      |   |                          |
| 1205   | Storm pet.                  | 1 | N    |      | black/w white rump  |                          |
| 1207   | " "                         | 1 | N    |      | " " "   |                          |
| 1217   | B.F. Booby                  | 1 | SE   |      | adult   |                          |
| 1225   | Storm Pet                   | 1 | N    |      | black w/ white rump.  |                          |
| 1227   | Bulwers                     | 1 | NE   |      |   |                          |
| 1245   |                             |   |      |      | whale E   |                          |
| 1245   | Storm Pet.                  | 1 | COO  |      |   |                          |
| 1250   | Storm Pet.                  | 1 | COO  |      |   |                          |
| 1307   | sooty Tern                  | 2 | NE   |      |   |                          |
| 1311   | Storm pet                   | 1 | NE   |      |   |                          |
|        | Storm pet                   | 1 |      |      | sitting on H <sub>2</sub> O   | } SAME sighting.         |
| 1320   | Bulwers                     | 1 | ⊙    |      |   |                          |
| 1337   |                             |   |      |      | whales. 4 (Blackfish?) < 6' long.   |                          |
| 1343   | Storm Pet                   | 1 | ⊙    |      | black/w white rump  |                          |
| 1352   | B.F.B.                      | 1 | E    |      | ad.   |                          |
| C 1352 | Sooty Tern                  | 1 |      |      | coll. (F. Smith)  |                          |
| 1420   | White-throated Storm Pet.   | 2 |      |      | sitting on H <sub>2</sub> O Feeding   |                          |
| 1427   | White-throated Storm Petrel | 1 |      |      | alternately alighting on H <sub>2</sub> O and flying  |                          |
| 1433   | sooty tern                  | 1 | S    |      | ad. } almost pure melanistic, only with some white on sides of belly.   |                          |
| 1435   | white-th. storm Pet         | 1 | E    |      | melanistic, no white, ID. determined by flight pattern.   |                          |
| T 1437 | Sooty Tern                  | 6 | E    |      | ad's. one done once-feeding behavior (searching)  |                          |



Noon Position: 3-35 S; 174-40 W

DATE 26 February 1966  
Pg. # 3

| time    | species                   | # | dir. | hgt. | remarks   | loc. |
|---------|---------------------------|---|------|------|---|------|
| 1444    | White-throated Storm pet. | 1 | E    |      | All Blacks  |      |
| 1446    | Ruddy Turnstone           | 1 | E    |      |   |      |
| 1447    | Storm Pet SP.             | 1 | E    |      |   |      |
| 1452    | White-thr. Storm Pet      | 2 |      |      | 1 Normal Phase, other?  |      |
| 1455    | White-rumped Storm Pet    | 1 | E    |      |   |      |
| 1458    | Bulwer's Pet              | 1 | E    |      |   |      |
| 1510    | RFB                       | 3 | N    |      | imm's.  |      |
| 1515    | bird                      | 1 | S    |      | light beneath, possibly shearbird, over slide   |      |
| 1517    | Sooty Tern                | 3 | ⊙    |      | Adults  |      |
| 1515    |                           |   |      |      | line of foam, running E and W marked  |      |
| 1600    | White-rumped Storm Petrel | 1 | E    |      | a complete change in surface of the ocean. Up to this point the ocean was completely calm with long undulating swells, immediately N of the slide, the water commenced to be slightly choppy. many storm petrels up to stick, but none afterward (1600) |      |
| 1603    | Sooty Tern                | 1 | W    |      | Ad.   |      |
| 1610    | Fairy Terns               | 2 |      |      | feeding   |      |
| 1619    | Storm Petrel              | 1 | S    |      | white-rump  |      |
| 1621    | Bulwer's Pet              | 1 | S    |      |   |      |
| 1622    | Sooty Tern                | 1 | S    |      | adult   |      |
| 1634    | Storm Pet                 | 1 | SE   |      | white rump  |      |
| 1655    | Sooty Tern                | 1 | SE   |      | adult   |      |
| 1657    | WTTB                      | 1 | ⊙    |      | adult   |      |
| 1705    | R-F Booby                 | 1 | ⊙    |      | adult   |      |
| 1706    | Sooty Tern                | 2 | NW   |      | adult   |      |
| 1722    | Bulwer's Pet              | 1 | SE   |      |   |      |
| 1723    | Sooty Tern                | 9 |      |      | were feeding then broke up  |      |
|         | Wedgetail                 | 3 |      |      |   |      |
| 1728    | W.R. Storm Pet            | 1 | ⊙    |      |   |      |
| 1746    | W.R. Storm Pet            | 1 | N    |      |   |      |
| 1746    | Sooty Terns               | 2 |      |      | feeding adults  |      |
| 1749    | Turtle                    | 1 |      |      | baby  |      |
| 1750    | Fairy Tern                | 2 | S    |      |   |      |
| TF 1800 | Sooty Tern                | 5 | SE   |      | Travelling 4 Ad, 1 imm  |      |
| TF 1808 | Sooty Tern                | 7 | SW   |      |   |      |
|         | Wt Shear                  | 1 |      |      |   |      |
| 1816    | Porpoise                  | 4 | N    |      |   |      |
| 1832    | Storm Pet                 | 1 | E    |      | white-rumped  |      |
| 1833    | " "                       | 1 | E    |      | white throated  |      |
| C 1851  | Bl-Gy Noddy               | 1 |      |      | collected by Husted   |      |
| 1857    | Sooty Tern                | 1 | W    |      | Ad.   |      |
| 1858    | Andulans shear            | 1 | W    |      |   |      |
| 1859    |                           |   |      |      | Samest End Observations   |      |

after 1700

NW 26-27 Midnight Position: 1-48 S; 175-41 W



Nocturnal Observations

DATE 27 Feb 66

Pg. # 1

Noon Position (27) 0-06 S; 176-29 W

time species # dir. hgt. remarks loc.

| time | species                | #  | dir. | hgt. | remarks   | loc. |
|------|------------------------|----|------|------|---|------|
| 0000 |                        |    |      |      | Begin observations  |      |
| 0238 | Sooty Tern             | 1  | N    |      | Ad.   |      |
| 0430 | Bird                   | 1  | E    |      | light below.  |      |
| 0651 |                        |    |      |      | SUNRISE End nocturnal   |      |
| 0659 | W.R. Storm Petrel      | 2  | E    |      |   |      |
| 0700 | "                      | 1  | NW   |      |   |      |
| 0709 | "                      | 1  | E    |      |   |      |
| 0717 | "                      | 1  | SE   |      |   |      |
| 0724 | "                      | 1  | W    |      |   |      |
| 0737 | "                      | 1  | E    |      |   |      |
| 0738 |                        |    |      |      | School of small bait fish jumping with occasional large swirl.            |      |
| 0750 | Sooty Tern             | 2  | S    |      | Flying low over water, occasionally circling. Searching for food. Adults. |      |
| 0755 | Storm Pet-WR           | 2  | SE   |      | white rump.   |      |
| 0800 | " " "                  | 1  | SW   |      |   |      |
| 0804 | shear-pet              | 1  |      |      |   |      |
| 0807 | Storm Pet.             | 3  |      |      | black w/white rump  |      |
| 0830 | W.R. Storm Pet         | 1  | SE   |      |   |      |
| 0900 |                        |    |      |      |   |      |
| 0907 | Sooty Tern             | 1  | SE   |      | 007007 Whale adult.   |      |
| 0915 | WR Storm Pet.          | 1  |      |      |   |      |
| 0936 | Bulwers P.             | 1  | SE   |      |   |      |
|      | WR Storm Pet.          | 1  | SE   |      |   |      |
| 0958 | WR Storm Pet           | 1  | SE   |      |   |      |
| 1002 | WR Storm Pet           | 1  | N    |      | broad white patch, possibly Harcourt's                                    |      |
| 1016 | WR STORM PET           | 1  | SE   |      |   |      |
| 1017 | SOOTY TERN             | 43 | E    |      | adults  |      |
| 1022 | SOOTY TERN             | 2  | SE   |      | adults  |      |
| 1029 | Shearbird              | 1  | NW   |      | Golden plover or immature Ruddy Turnstone                                 |      |
| 1051 | B-F Booby              | 1  | N    |      | adult ♀ banded #587-81209, shot by Thompson                               |      |
| 1104 | Sooty Tern             | 1  | SE   |      | adult   |      |
| 1135 | " " "                  | 13 | SE   |      | searching. Jarvis Is, Nov. 1964   |      |
| 1137 | white-rumped Storm Pet | 1  | N    |      | very broad white rump - prob. Harcourt's.                                 |      |
| 1210 | Bl-faced B             | 1  | N    |      | Imm.  |      |
| 1210 | sooty Tern             | 5  | NE   |      | ad's traveling.   |      |
| 1213 | Bl-faced Booby         | 1  | E    |      | ad.   |      |
| 1214 | sooty tern             | 1  | N    |      | ad.   |      |
| 1214 | Bulwer's Pet           | 1  | W    |      |   |      |
| 1215 | Sooty Tern             | 59 | SE   |      | Ad. - Two Boobies (BF) 1210, 1213 joined flock                            |      |
|      | Frigate Sp.            | 1  |      |      | Not actively feeding. Fish below.   |      |



Noon Position: 0-06 S; 176-29 W

SIC 11

DATE Feb 27 1966  
Pg. # 2

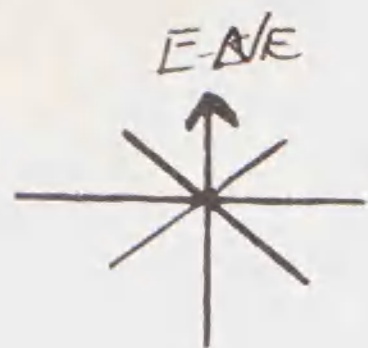
|      | time            | species        | #      | dir. | hgt. | remarks   | loc. |
|------|-----------------|----------------|--------|------|------|---|------|
|      | 1236            | Sooty Tern     | 1      | W    |      |   |      |
|      | 1315            | " "            | 1      | SW   |      | Ad  |      |
|      | 1327            | W.R. Storm Pet | 1      | ☉    |      |   |      |
|      | 1338            | BFB            | 1      |      |      | Sitting on H <sub>2</sub> O                               |      |
|      | 1340            | Bon Booby      | 1      | N    |      |   |      |
|      | 1342            | BFB            | 1      | N    |      | SA  |      |
|      | <del>1344</del> |                |        |      |      |   |      |
|      | 1345            | W.R. Storm Pet | 1      | ☉    |      |   |      |
|      | 1346            |                |        |      |      | End observations due to island work.                      |      |
|      | 1450            |                |        |      |      | Begin observation leaving Baker for Howland               |      |
| FF   | 1453            | Sooty Tern     | 15±5   | ☉    |      |   |      |
|      | 1521            | Bulwer's Pet   | 2      | ☉    | 2    | Sitting on H <sub>2</sub> O                               |      |
|      |                 | W.R. Storm Pet | 2      | ☉    | 5    |   |      |
|      | 1525            | BFB            | 1      | N    |      | Ad  |      |
|      | 1528            | W.R. Storm Pet | 1      | W    |      |   |      |
|      | 1532            |                |        |      |      | Turtle - 3 1/2 ft.  |      |
|      | 1548            | Sooty Tern     | 1      | N    |      | Ad  |      |
|      | 1600            | Bulwer's Pet   | 1      | E    |      |   |      |
|      | 1603            | Sooty Tern     | 6      | ☉    |      | Feeding - all adults.                                     |      |
|      | 1610            | W.R. Storm Pet | 1      | S    |      |   |      |
| C FF | 1615            | Sooty T.       | 125±10 |      |      | FF. 1 imm sooty coll. (BAH.)                              |      |
|      |                 | Frigate sp.    | 2      |      |      | Flock about 90% adults. Younger birds had white belly.    |      |
|      | 1644            | Sooty Tern     | 1      | N    |      | Predatory fish under flying fish.                         |      |
|      | 1647            |                |        |      |      | adult   |      |
|      | 1648            | Sooty Tern     | 2      | N    |      | Pilot whale 3 going north                                 |      |
| FF   | 1700            | Sooty Tern     | 13     | ☉    |      | adults  |      |
|      | 1704            | " "            | 3      | N    |      | Adults  |      |
|      | 1706            | " "            | 75±10  | ☉    |      |   |      |
| FF   |                 | Frigate sp.    | 1      |      |      | ♀ ad.   |      |
|      |                 | BFB            | 2      |      |      | Ad  |      |
| FF   | 1710            | Sooty Tern     | 40±5   | ☉    |      | All Adults Predatory fish & flying fish.                  |      |
|      |                 | BFB            | 2      |      |      | Ad  |      |
|      |                 | Shear/Pet      | 1      |      |      |   |      |
|      | 1711            | Storm Pet sp.  | 1      |      |      |   |      |
|      | 1724            | wedgetail      | 1      |      |      | sitting on H <sub>2</sub> O light phase                   |      |
|      | 1728            |                |        |      |      | 3 whales - jumping out of H <sub>2</sub> O - Pilot whales |      |
|      | 1732            | Sooty T.       | 2      | N    |      | ad  |      |
|      | 1732            | " "            | 1      | N    |      | "   |      |
|      | 1732            | " "            | 1      | N    |      | "   |      |
|      | 1737            | Sooty T.       | 11     | SW   |      | ad.   |      |
|      | 1738            | " "            | 13     | SW   |      | adults.   |      |
|      | 1738            | Bulwer's       | 1      | N    |      |   |      |
|      | 1739            | Sooty T.       | 12     | SW   |      | adults searching.   |      |



NOON Position: 0-06S; 176-29W

DATE Feb. 27 1966  
Pg. # 3

| time    | species    | #  | dir. | hgt. | remarks                             | loc.                          |
|---------|------------|----|------|------|-------------------------------------|-------------------------------|
| 1742    | Sooty Tern | 5  | SW   |      | adults                              |                               |
| FF 1750 | " "        | 16 |      |      | Actively feeding                    |                               |
| 1750    |            |    |      |      | Howland in sight for 10 min. now.   |                               |
| 1753    | Sooty Tern | 1  | SE   |      | ad.                                 |                               |
| 1755    | " "        | 2  |      |      | ad.                                 |                               |
| 1800    | BF Booby   | 1  | N    |      |                                     |                               |
| 1801    |            |    |      |      | whale spouting.                     |                               |
| 1805    | BF B.      | 1  | N    |      | ad.                                 |                               |
| FF 1807 | Sooty Tern | 85 |      |      | Feeding                             | } Porpoise also<br>Seem jump. |
|         | BFB        | 35 |      |      | diving & feeding                    |                               |
|         | Frigate sp | 10 |      |      | chasing                             |                               |
|         | RFB        | 8  |      |      | feeding & diving                    |                               |
| FF 1817 | Sooty T.   | 10 |      |      | FF                                  |                               |
|         | RFB        | 1  |      |      |                                     |                               |
| 1817    |            |    |      |      | many terns, boobies & frigates from |                               |
| 1820    | Sooty T.   | 50 |      |      | flock of 1807 now going to island.  |                               |
|         |            |    |      |      | scattered; headed for Howland.      |                               |
| 1823    |            |    |      |      | CLOSE OBSERV.                       |                               |



Midnight Position: 1-01 N; 176-19 W

Nocturnal

DATE 27 February 1966  
Pg. # 1

| time | species    | #               | dir. | hgt. | remarks  | loc. |
|------|------------|-----------------|------|------|--|------|
| 2130 |            |                 |      |      | Begin noc. obs. off Howland Island   |      |
| 2132 | sooty tern | 20 <sup>+</sup> |      |      | calling over ship  |      |
| 2133 |            |                 |      |      | large school of porpoise swimming w/ ship. ca 50 <sup>+</sup>                                  |      |
| 2150 | sooty tern | 2               |      |      | this is the first sighting of these on SIC II - evidently they have been away from the island. |      |
| 2203 | " "        | 4               | W-SW |      | calling no apparent direction.   |      |
| 2208 | " "        | 1               | E-NE |      | ad.  |      |
| 2235 | " "        | 2               | ca   |      | no apparent direction  |      |
| 2332 | " "        | 2               | W-NW |      | calling  |      |
| 0009 | " "        | 1               |      |      | Flying parallel to ship about 100 yds out  |      |
| 0121 | " "        | 2               | ⊙    |      |  |      |
| 0235 | " "        | 2               |      |      | calling off to East.   |      |
| 0246 | " "        | 1               |      |      | " out in front of ship   |      |
| 0325 | " "        | 1               | ⊙    |      | Not calling  |      |
| 0327 | " "        | 1               | W    |      | calling  |      |
| 0348 | " "        | 1               | NE   |      | Ad.  |      |
| 0432 | " "        | 1               | SW   |      | Ad.  |      |
| 0440 | " "        | 1               | N    |      | Ad.  |      |
| 0520 | " "        | 1               | ?    |      | Ad.  |      |
| 0530 |            |                 |      |      | changing course to SE  |      |
| 0616 | sooty tern | 1               |      |      | Heard calling only   |      |
| 0652 |            |                 |      |      | sunrise - cease obs  |      |

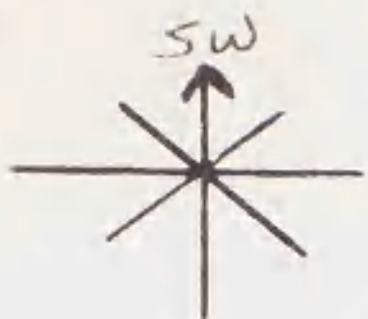




Noon Position: 0-41N; 175-37W

DATE 28 Feb 1966  
Pg. # 1

|    | time | species                | #  | dir. | hgt. | remarks                                   | loc. |
|----|------|------------------------|----|------|------|---|------|
|    | 0652 |                        |    |      |      | Sunrise - begin obs.                      |      |
| C  | 0652 | RTTB                   | 1  |      |      | ad. coll. RSC - pink.                     |      |
|    | 0704 | white rumped storm Pet | 1  | E    |      |   |      |
|    | 0710 | WTTB                   | 1  | W    |      | ad.                                       |      |
| TF | 0711 | Sooty Tern             | 6  | N    |      | ad's - traveling, fast - direct.          |      |
|    | 0715 | " "                    | 2  | SW   |      | ad's - low over H <sub>2</sub> O          |      |
|    | 0719 | " "                    | 3  |      |      | circling up high.                         |      |
|    | 0721 | " "                    | 6  |      |      | joined 3 of above - circling over slicks. |      |
|    | 0722 | wedgetail              | 1  |      |      | dark phase - over natural slicks.         |      |
|    | 0740 | W-Rumps. Pet           | 1  | ☉    |      |   |      |
| C  | 0742 | BFB                    | 1  |      |      | ad. coll. RSC. Not Banded                 |      |
|    | 0810 | W.R. Storm Pet         | 1  | ☉    |      |   |      |
|    | 0814 | Bulwers Pet            | 1  | E    |      |   |      |
| TF | 0820 | Sooty Tern             | 7  | SW   |      | Ad. Travelling                            |      |
|    | 0835 | W.R. Storm Pet         | 1  | E    |      |   |      |
|    | 0854 | Sooty Tern             | 3  | NE   |      |   |      |
|    | 0912 | " "                    | 3  | SE   |      | Ad  |      |
|    | 0925 |                        |    |      |      | change course to SW                       |      |
|    | 0936 | W.R. Storm Pet         | 1  | ☉    |      |   |      |
|    | 0937 | Sooty Tern             | 1  | NW   |      | <del>This one looks a charmed life</del>  |      |
| FF | 0955 | " "                    | 15 | ☉    |      | Ad.                                       |      |
|    | 0957 | W.R. Storm Pet         | 2  | W    |      | All Ad                                    |      |
|    | 1008 | WTTB                   | 1  | ☉    |      |   |      |
| FF | 1015 | Sooty Tern             | 30 | SE   |      | Feeding & Following Ship                  |      |
|    |      | W.R. Storm Pet         | 1  |      |      | Flying fish & predatory fish              |      |
|    | 1020 |                        |    |      |      | All Adult                                 |      |
|    | 1025 |                        |    |      |      | 8 Pilot Whales 007007                     |      |
|    | 1100 | Sooty Tern             | 3  | NE   |      | 60 Porpoises                              |      |
|    | 1104 | Bulwer's Pet           | 2  | SE   |      | Adults                                    |      |
|    | 1115 |                        |    |      |      | 2 whales 10-12 ft                         |      |
|    | 1128 | Sooty Tern             | 4  | W    |      | Ad  |      |
| FF | 1143 | wedgetail              | 4  | ☉    |      | Dark Phase } feeding                      |      |
|    |      | storm pet sp.          | 2  |      |      | fun out                                   |      |
|    | 1144 | Bl-facial Booby        | 1  | W    |      | ad.                                       |      |
|    | 1152 | sooty tern             | 2  | ☉    |      | ad's.                                     |      |
|    | 1201 | " "                    | 4  | NE   |      | ad's.                                     |      |
|    | 1240 | Bulwer's Petrel        | 1  | NE   |      |   |      |
|    | 1244 | white rumped storm Pet | 1  | NE   |      |   |      |
|    | 1250 | " "                    | 1  | W    |      | very broad rump, probably Harcourt's.     |      |
|    | 1300 | " "                    | 1  | W    |      | " " " " " "                               |      |
|    | 1310 |                        |    |      |      | two pilot whales ca 15' long.             |      |
|    | 1311 | wh-rumped storm Pet    | 1  | SW   |      | large white rump - Prob. Harcourt's.      |      |
| C  | 1315 | Leach's "              | 1  |      |      | on H <sub>2</sub> O coll. RSC.            |      |



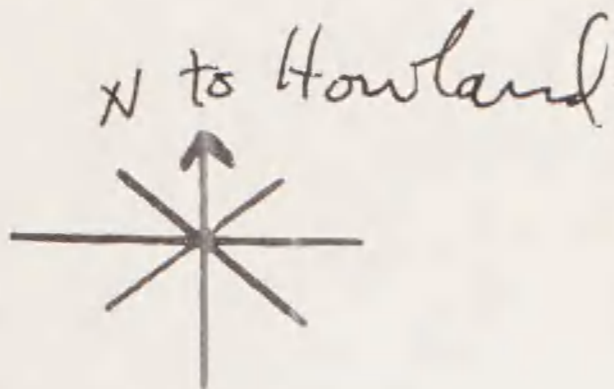
Noon Position: 0-41 N; 175-37 W

DATE 28 Feb 1966  
Pg. # 2

| time | species                | # | dir. | hgt. | remarks   | loc.                       |
|------|------------------------|---|------|------|---|----------------------------|
| 1318 | Sooty tern             | 1 | SE   |      | ad.   |                            |
| 1319 | Golden Plover          | 1 | ☉    |      |   |                            |
| 1322 | Leach's S.P.           | 1 | ☉    |      | coll. RSC.  |                            |
| 1322 | White rumped Storm Pet | 1 | W    |      | prob. Leach's.  |                            |
| 1329 | " " "                  | 1 | E    |      | " "   |                            |
| 1332 | " " "                  | 1 | E    |      |   |                            |
| 1337 | " " "                  | 1 | E    |      |   |                            |
| 1342 | Leach's " "            | 1 |      |      | coll. RSC   |                            |
| 1350 | Bulwer's Pet           | 1 | E    |      |   |                            |
| 1353 | White rumped S.P.      | 1 | NE   |      |   |                            |
| 1355 | " "                    | 3 |      |      | on H <sub>2</sub> O.                                      |                            |
| 1405 | Bl faced Booby         | 1 |      |      | coll. RSC Banded: 757-669 <sup>3</sup> 9 - Bernie No 64   |                            |
| 1422 |                        |   |      |      | Dupe goes out in skiff.                                   |                            |
| 1425 | Leach's Storm Petrel   | 1 |      |      | coll. Hunted in skiff                                     |                            |
| 1426 | Bl-faced Booby         | 2 | ☉    |      | ad ☉  |                            |
| 1437 | Wh-r. S.P.             | 1 | S    |      |   |                            |
| 1440 | Leach's " " "          | 3 |      |      | 2 on H <sub>2</sub> O 2 coll. Hunted skiff.               |                            |
| 1450 | Leach's " " "          | 2 | SW   |      | coll  |                            |
| 1457 | Leach's " " "          | 2 | NE   |      | being chased by Hunted in skiff. collected                |                            |
| 1505 | Sooty tern             | 3 | NE   |      | ad's.   |                            |
| 1522 | " "                    | 3 | E    |      | "   |                            |
| 1533 | " "                    | 1 | NE   |      |   |                            |
| 1533 | Bulwer's Pet           | 1 |      |      | together on H <sub>2</sub> O storm Pet coll. Hunted skiff |                            |
| 1533 | White rumped S.P.      | 1 |      |      |   |                            |
| 1539 | Leach's S.P.           | 1 | NE   |      | coll  |                            |
| 1559 | Sooty tern             | 2 | SW   |      | ad's.   |                            |
| 1619 | " "                    | 1 | NW   |      |   |                            |
| 1623 | Wedgetail              | 1 | W    |      | Dark  |                            |
| 1629 | WR Storm Pet           | 4 | ☉    |      | sitting on H <sub>2</sub> O at various times              |                            |
| 1633 | " " "                  | 1 |      |      | on H <sub>2</sub> O                                       |                            |
| 1633 |                        |   |      |      |   | Baker Island - Dead ahead! |
| 1637 | Wh. r. Storm Pet       | 1 | S    |      |   |                            |
| 1710 | Noddy Tern             | 2 | N    |      |   |                            |
| 1715 |                        |   |      |      | Baker Island 3/4 mi off close observations                |                            |
| 1850 |                        |   |      |      | Leave Baker to pick up shore party.                       |                            |
| 1903 |                        |   |      |      | Sunset Hunted H.  |                            |

midnight position: Howland Island

SI-MNH-958e  
7-28-64



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

Nocturnal

DATE

Pg. # 28 Feb 1966

| time    | species        | # | dir. | hgt. | remarks  | loc. |
|---------|----------------|---|------|------|--|------|
| 1902    |                |   |      |      | Begin Nocturnal Observation  |      |
| 1906    | Bulwer's Pet   | 1 | N    |      |  |      |
| 2000    | Tropicbird sp. | 1 | ⊙    |      |  |      |
| TF 2025 | BFB            | 7 | E    |      | All Adults   |      |
| 2058    | Sooty Tern     | 2 | N    |      | Adults   |      |
| 2100    | " "            | 1 | N    |      | Ad   |      |
| 2105    | " "            | 2 | ⊙    |      | Ad   |      |
| 2111    | " "            | 3 | S    |      | Ad   |      |
| 2140    | " "            | 1 | S    |      | Ad   |      |
| 2146    | BFB            | 1 | ⊙    |      | Imm.   |      |
| 2200    | " " "          | 1 | ⊙    |      | Ad   |      |
| 2204    | Sooty Tern     | 3 | ⊙    |      | Ad   |      |
| 2208    |                |   |      |      |  |      |
| 2210    | Sooty Tern     | 1 | ⊙    |      | 10 Program   |      |
| 2225    | Bulby sp.      | 1 |      |      | Ad   |      |
| 2230    |                |   |      |      | 25 Program   |      |
| 2231    | Sooty Tern     | 2 | ⊙    |      |  |      |
| 2235    |                |   |      |      | cease observation preparation to arrive at <del>Howland</del> Howland. |      |

DATE 1 FEB, 1966

Time at sunrise = 0651 Position at sunrise = 14-22N, 170-48W  
Time at sunset = 1828 Position at sunset = 12-31N, 171-31W  
Miles traveled from 0000 hours to sunrise = 69.5  
Miles traveled from sunrise to sunset = 127  
Miles traveled from sunset to 2400 hours = 60.0

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0700        | CHELLESTIAL | 170-49W,  | 14-20N   |
| 2. | 1200        | "           | 171-15W   | 13-32N   |
| 3. | 1900        | "           | 171-51W   | 12-26N   |
| 4. |             |             |           |          |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 2 FEB 1966

Time at sunrise = 0654 Position at sunrise = 10-30N, 172-50W  
Time at sunset = 1842 Position at sunset = ~~75 mi~~ 8-36N, 173-42W  
Miles traveled from 0000 hours to sunrise = 75 mi  
Miles traveled from sunrise to sunset = 126  
Miles traveled from sunset to 2400 hours = 58.0

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0700        | CHELLESTIAL | 172-50W   | 10-29N   |
| 2. | 1000        | "           | 173-04W   | 10-00N   |
| 3. | 1400        | "           | 173-27W   | 9-09N    |
| 4. | 1900        | "           | 173-43W   | 8-33N    |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 3 FEB 1966

Time at sunrise = 0656 Position at sunrise = 6-31N, 174-18W  
Time at sunset = 1851 Position at sunset = 5-05N, 175-00W  
Miles traveled from 0000 hours to sunrise = 72 mi  
Miles traveled from sunrise to sunset = 98 mi  
Miles traveled from sunset to 2400 hours = 54 mi

|    | TIME OF FIX | TYPE OF FIX   | LONGITUDE | LATITUDE |
|----|-------------|---------------|-----------|----------|
| 1. | 0700        | LORAN & CELL- | 174-18W,  | 6-30N    |
| 2. | 0900        | " "           | 174-26W,  | 6-10N    |
| 3. | 1900        | LORAN         | 175-01W,  | 5-04N    |
| 4. | 2200        | LORAN & CELL- | 175-12W   | 4-35N    |
| 5. |             |               |           |          |
| 6. |             |               |           |          |

DATE 4 FEB 1966

Time at sunrise = 0657 Position at sunrise = 3-07N, 175-49W  
Time at sunset = 1900 Position at sunset = 1-53N, 176-26W  
Miles traveled from 0000 hours to sunrise = 75  
Miles traveled from sunrise to sunset = 83  
Miles traveled from sunset to 2400 hours = 36

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0700        | CELESTIAL   | 175-49W   | 3-07N    |
| 2. | 1930        | LORAN & "   | 176-27W   | 1-49N    |
| 3. |             |             |           |          |
| 4. |             |             |           |          |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 5 FEB 1966

Time at sunrise = 0658 Position at sunrise = 0-48N, 176-38W

Time at sunset = 1905 Position at sunset = 0-27N, 176-52W

Miles traveled from 0000 hours to sunrise = 39 mi

Miles traveled from sunrise to sunset = 74 mi

Miles traveled from sunset to 2400 hours = 29 mi

|  | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|--|-------------|-------------|-----------|----------|
|--|-------------|-------------|-----------|----------|

|    |      |           |         |       |
|----|------|-----------|---------|-------|
| 1. | 0407 | CELESTIAL | 176-37W | 0-53N |
|----|------|-----------|---------|-------|

|    |      |   |         |       |
|----|------|---|---------|-------|
| 2. | 1745 | " | 176-49W | 0-15N |
|----|------|---|---------|-------|

3.

4. MANEUVERING AROUND HOWLAND

5. & BAKER DURING COURSE OF DAY

6.

DATE 6 FEB 1966

Time at sunrise = 0656 Position at sunrise = 1-02N, 176-03W

Time at sunset = 1857 Position at sunset = 1-01N, 175-18.5W

Miles traveled from 0000 hours to sunrise = 46 mi

Miles traveled from sunrise to sunset = 75 mi

Miles traveled from sunset to 2400 hours = 41 mi

|  | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|--|-------------|-------------|-----------|----------|
|--|-------------|-------------|-----------|----------|

|    |      |           |         |       |
|----|------|-----------|---------|-------|
| 1. | 0500 | CELESTIAL | 176-09W | 1-07N |
|----|------|-----------|---------|-------|

|    |      |   |         |       |
|----|------|---|---------|-------|
| 2. | 0700 | " | 176-02W | 1-01N |
|----|------|---|---------|-------|

|    |      |   |         |       |
|----|------|---|---------|-------|
| 3. | 0930 | " | 175-50W | 1-13N |
|----|------|---|---------|-------|

|    |      |   |         |       |
|----|------|---|---------|-------|
| 4. | 1200 | " | 175-39W | 1-24N |
|----|------|---|---------|-------|

|    |      |   |          |       |
|----|------|---|----------|-------|
| 5. | 1916 | " | 175-20.5 | 1-00N |
|----|------|---|----------|-------|

|    |      |   |         |       |
|----|------|---|---------|-------|
| 6. | 2200 | " | 175-40W | 0-47N |
|----|------|---|---------|-------|

DATE 7 FEB 1966

Time at sunrise = 0657 Position at sunrise = 0-11N, 176-29W  
Time at sunset = 1905 Position at sunset = 1-06N, 177-05W  
Miles traveled from 0000 hours to sunrise = 45 mi  
Miles traveled from sunrise to sunset = 74 mi  
Miles traveled from sunset to 2400 hours = 35 mi

|    | TIME OF FIX  | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|--|-------------|-----------|----------|
| 1. | 0400   | RADAR       | 176-19W   | 0-19N    |
| 2. | 1930   | CELESTIAL   | 177-13W   | 1-07N    |
| 3. |  |             |           |          |
| 4. | MANEUVERING AROUND VICINITY OF<br>HOWLAND & BAKER DURING DAY |             |           |          |
| 5. |  |             |           |          |
| 6. |  |             |           |          |

DATE 8 FEB 1966

Time at sunrise = 0705 Position at sunrise = 1-17N, 178-14W  
Time at sunset = 1907 Position at sunset = 0-12N, 177-45W  
Miles traveled from 0000 hours to sunrise = 57 mi  
Miles traveled from sunrise to sunset = 82 mi  
Miles traveled from sunset to 2400 hours = 44 mi

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0700        | CELESTIAL   | 178-14W   | 1-18N    |
| 2. | 2000        | "           | 177-40W   | 1-18N    |
| 3. |             |             |           |          |
| 4. |             |             |           |          |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 9 FEB 1966

Time at sunrise = 0659 Position at sunrise = 176-35 W, 1-40 N  
Time at sunset = 1909 Position at sunset = 177-48 W, 0-18 N  
Miles traveled from 0000 hours to sunrise = 54-0  
Miles traveled from sunrise to sunset = 120<sup>118</sup>  
Miles traveled from sunset to 2400 hours = 47-0

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0700        | CELESTIAL   | 176-35W   | 1-40N    |
| 2. | 0900        | "           | 176-33W   | 1-28N    |
| 3. | 1200        | "           | 176-51W   | 1-08N    |
| 4. | 1500        | "           | 177-15W   | 0-48N    |
| 5. | 2000        | "           | 177-55W   | 0-12N    |
| 6. |             |             |           |          |

DATE 10 FEB

Time at sunrise = 0700 Position at sunrise = 0-19 S, 177-27 W  
Time at sunset = 1904 Position at sunset = 0-02 N, 176-41 W  
Miles traveled from 0000 hours to sunrise = 52-0  
Miles traveled from sunrise to sunset = 54-0  
Miles traveled from sunset to 2400 hours = 30-0

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0700        | CELESTIAL   | 177-27W   | 0-19 S   |
| 2. | 1030        | "           | 177-09W   | 0-03 S   |
| 3. | 1930        | RADAR       | 177-38W   | 0-03 N   |
| 4. |             |             |           |          |
| 5. |             |             |           |          |
| 6. |             |             |           |          |



DATE 11 FEB 1966

Time at sunrise = 0657 Position at sunrise = 0-38 $\frac{1}{2}$ , 177-01W  
Time at sunset = 1904 Position at sunset = 1-00 $\frac{1}{2}$  176-09W  
Miles traveled from 0000 hours to sunrise = 77.0 mi  
Miles traveled from sunrise to sunset = 108.0 mi  
Miles traveled from sunset to 2400 hours = 46.0 mi

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE           |
|----|-------------|-------------|-----------|--------------------|
| 1. | 0700        | CELESTIAL   | 177-02W   | 0-39 $\frac{1}{2}$ |
| 2. | 0900        | "           | 177-09W   | 0-58 $\frac{1}{2}$ |
| 3. | 1300        | "           | 176-49W   | 1-23 $\frac{1}{2}$ |
| 4. | 2000        | "           | 176-03W   | 0-55 $\frac{1}{2}$ |
| 5. |             |             |           |                    |
| 6. |             |             |           |                    |

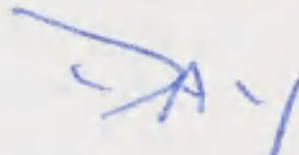
DATE 12 FEB 1966

Time at sunrise = 0648 Position at sunrise = 2-09 $\frac{1}{2}$ , 174-58W  
Time at sunset = 1855 Position at sunset = 3-20 $\frac{1}{2}$  173-35W  
Miles traveled from 0000 hours to sunrise = 61.0 mi  
Miles traveled from sunrise to sunset = 108.0 mi  
Miles traveled from sunset to 2400 hours = 47.0 mi

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE           |
|----|-------------|-------------|-----------|--------------------|
| 1. | 0700        | CELESTIAL   | 174-56W   | 2-11 $\frac{1}{2}$ |
| 2. | 1200        | "           | 174-22W   | 2-40 $\frac{1}{2}$ |
| 3. | 1500        | "           | 174-00W   | 2-54 $\frac{1}{2}$ |
| 4. | 2000        | "           | 173-28W   | 3-27 $\frac{1}{2}$ |
| 5. |             |             |           |                    |
| 6. |             |             |           |                    |

DATE 13 FEB 1966

Time at sunrise = 0636 Position at sunrise = 4-27 S, 172-14 W  
Time at sunset = 1848 Position at sunset = 3-48 S, 171-42 W  
Miles traveled from 0000 hours to sunrise = 59.0  
Miles traveled from sunrise to sunset = 60.0  
Miles traveled from sunset to 2400 hours = 53.0

|    | TIME OF FIX  | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|--|-------------|-----------|----------|
| 1. | 1900   | CELESTIAL   | 171-42 W  | 3-45 S   |
| 2. |  |             |           |          |
| 3. | MANEUVERING AROUND HULL IS.  |             |           |          |
| 4. | DURING COURSE OF  |             |           |          |
| 5. |  |             |           |          |
| 6. |  |             |           |          |

DATE 14 FEB 1966

Time at sunrise = 0635 Position at sunrise = CANTON IS - 2-49 S, 171-44 W  
Time at sunset = 1842 Position at sunset = ENDERBURY IS.  
Miles traveled from 0000 hours to sunrise = 10.5 mi  
Miles traveled from sunrise to sunset = 44.0  
Miles traveled from sunset to 2400 hours = 0

|    | TIME OF FIX              | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|--------------------------|-------------|-----------|----------|
| 1. | AT CANTON & ENDERBURY    |             |           |          |
| 2. | ISLANDS EXCEPT FOR SHORT |             |           |          |
| 3. | RUN BETWEEN              |             |           |          |
| 4. |                          |             |           |          |
| 5. |                          |             |           |          |
| 6. |                          |             |           |          |

DATE 16 FEB 1966

Time at sunrise = 0633 Position at sunrise = 3-06 S, 171-05 W  
Time at sunset = 1847 Position at sunset = 5-22 S - 171-08 W  
Miles traveled from 0000 hours to sunrise = 0.0 AT ENDOROUGH  
Miles traveled from sunrise to sunset = 136.0  
Miles traveled from sunset to 2400 hours = 57.5

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 1900        | CELESTIAL   | 171-08 W  | S-24 S   |
| 2. |             |             |           |          |
| 3. |             |             |           |          |
| 4. |             |             |           |          |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 17 FEB 1966

Time at sunrise = 0630 Position at sunrise = 7-31 S 170-55 W  
Time at sunset = 1849 Position at sunset = 9-33 S - 171-03 W  
Miles traveled from 0000 hours to sunrise = 71.5 mi  
Miles traveled from sunrise to sunset = 122.0 mi  
Miles traveled from sunset to 2400 hours = 48.0

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0600        | CELESTIAL   | 170-55 W  | 7-26 S   |
| 2. | 1100        | "           | 170-58 W  | 8-19 S   |
| 3. | 1700        | VIS-RADAR   | 171-03 W  | 9-18 S   |
| 4. | 1900        | " "         | 171-03 W  | 9-35 S   |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 18 FEB 1966

Time at sunrise = 0625 Position at sunrise = 11-03S, 171-06W  
Time at sunset = 1852 Position at sunset = 12-04S 170-58W  
Miles traveled from 0000 hours to sunrise = 44.0 mi  
Miles traveled from sunrise to sunset = ~~64-0~~ 76-0  
Miles traveled from sunset to 2400 hours = 64-0

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

DATE 19 FEB 1966

Time at sunrise = 0621 Position at sunrise = 14-16S, 170-36W  
Time at sunset = <sup>SAMOA</sup> Position at sunset = SAMOA  
Miles traveled from 0000 hours to sunrise = 67-0  
Miles traveled from sunrise to sunset =  
Miles traveled from sunset to 2400 hours =

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

DATE 23 FEB 1966

Time at sunrise = 0622 Position at sunrise = SAMOA  
Time at sunset = 1848 Position at sunset = 13-16S 170-47W  
Miles traveled from 0000 hours to sunrise = ~~68~~ 0.0  
Miles traveled from sunrise to sunset = 68-0  
Miles traveled from sunset to 2400 hours = 53-0

|    | <u>TIME OF FIX</u> | <u>TYPE OF FIX</u> | <u>LONGITUDE</u> | <u>LATITUDE</u> |
|----|--------------------|--------------------|------------------|-----------------|
| 1. | 2000               | CELESTIAL          | 13-05S           | 170-50W         |
| 2. |                    |                    |                  |                 |
| 3. |                    |                    |                  |                 |
| 4. |                    |                    |                  |                 |
| 5. |                    |                    |                  |                 |
| 6. |                    |                    |                  |                 |

DATE 24 FEB 1966

Time at sunrise = 0626 Position at sunrise = 11-22S 171-10W  
Time at sunset = 1849 Position at sunset = 10-06S 171-37W  
Miles traveled from 0000 hours to sunrise = 64-0 ~~11-27S~~  
Miles traveled from sunrise to sunset = 84-0  
Miles traveled from sunset to 2400 hours = 52-0

|    | <u>TIME OF FIX</u> | <u>TYPE OF FIX</u> | <u>LONGITUDE</u> | <u>LATITUDE</u> |
|----|--------------------|--------------------|------------------|-----------------|
| 1. | 0600               | CELESTIAL          | 171-11W          | 11-27S          |
| 2. | 1900               | "                  | 171-38W          | 10-05S          |
| 3. |                    |                    |                  |                 |
| 4. |                    |                    |                  |                 |
| 5. |                    |                    |                  |                 |
| 6. |                    |                    |                  |                 |

DATE 25 FEB 1966

Time at sunrise = 0634 Position at sunrise = 8-15 S 172-23W  
Time at sunset = 1854 Position at sunset = 6-17 S 173-18W  
Miles traveled from 0000 hours to sunrise = 68-0  
Miles traveled from sunrise to sunset = 131-0  
Miles traveled from sunset to 2400 hours = 54 mi

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0600        | CELESTIAL   | 172-21W   | 8-20 S   |
| 2. | 2000        | "           | 173-24W   | 6-06 S   |
| 3. |             |             |           |          |
| 4. |             |             |           |          |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 26 FEB

Time at sunrise = 0644 Position at sunrise = 4-25 S 174-17W  
Time at sunset = 1859 Position at sunset = 2-37 S 175-23W  
Miles traveled from 0000 hours to sunrise = 72-0 mi  
Miles traveled from sunrise to sunset = 134-0  
Miles traveled from sunset to 2400 hours = 53-0

|    | TIME OF FIX | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|-------------|-------------|-----------|----------|
| 1. | 0700        | CELESTIAL   | 174-19W   | 4-23 S   |
| 2. | 1900        | "           | 175-23W   | 2-37 S   |
| 3. |             |             |           |          |
| 4. |             |             |           |          |
| 5. |             |             |           |          |
| 6. |             |             |           |          |

DATE 27 FEB 1966

Time at sunrise = 0653 Position at sunrise = 0-52 S 176-21 W  
 Time at sunset = 1901 Position at sunset = Howland Is.  
 Miles traveled from 0000 hours to sunrise = 69  
 Miles traveled from sunrise to sunset = 103.0  
 Miles traveled from sunset to 2400 hours = 24.0

|    | TIME OF FIX                             | TYPE OF FIX | LONGITUDE | LATITUDE          |
|----|---|-------------|-----------|-------------------|
| 1. | 0700                                    | CELESTIAL   | 176-22 W  | <del>0-51 S</del> |
| 2. | AT HOWLAND & BAKER DURING COURSE OF DAY |             |           |                   |
| 3. |   |             |           |                   |
| 4. |   |             |           |                   |
| 5. |   |             |           |                   |
| 6. |   |             |           |                   |

DATE 28 FEB 1966

Time at sunrise = 0652 Position at sunrise = 1-15 N 175-26 W  
 Time at sunset = 1902 Position at sunset = 0-14 N 176-30 W  
 Miles traveled from 0000 hours to sunrise = 64.0  
 Miles traveled from sunrise to sunset = 120.0  
 Miles traveled from sunset to 2400 hours = 39.0

|    | TIME OF FIX               | TYPE OF FIX | LONGITUDE | LATITUDE |
|----|---------------------------|-------------|-----------|----------|
| 1. | 0700                      | CELESTIAL   | 175-25 W  | 1-15 N   |
| 2. | AT BAKER ISLAND 1718-1848 |             |           |          |
| 3. | 1902                      | RADAR       | 0-14 N    | 176-30 W |
| 4. | 2230 ARRIVE HOWLAND       |             |           |          |
| 5. |                           |             |           |          |
| 6. |                           |             |           |          |

64  
 63  
 3  
 1.1  
 52  
 33  
 225  
 14  
 23

DATE 1 Feb. 1966

| TIME | LAT    | LONG    | PRES WEA    | VIS | SLP  | DRY B | DEW PT | HUMID/O | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|---------|-------------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 15-15N | 170-18W | Partly Cl'd | 20  | 1015 | 77    | 70     | 78      | 2      | 0       | 070-5-4 | 78       | 045    | 6      | 204 11           |
| 0200 | 15-07N | 170-19W | " "         | 20  | 1015 | 77    | 70     | 78      | 1      | 0       | 070-5-4 | 78       | 045    | 7      | 204 11           |
| 0300 | 14-56N | 170-25W | " "         | 20  | 1015 | 77    | 70     | 78      | 3      | 1       | 070-5-4 | 78       | 045    | 17     | 204 11           |
| 0400 | 14-47N | 170-30W | " "         | 20  | 1015 | 77    | 70     | 78      | 4      | 2       | 070-5-4 | 78       | 045    | 12     | 204 11           |
| 0500 | 14-40N | 170-38W | " "         | 20  | 1014 | 77    | 70     | 78      | 5      | 4       | 060-6-4 | 78       | 085    | 050    | 204 - 11         |
| 0600 | 14-30N | 170-44W | " "         | 20  | 1015 | 78    | 69     | 75      | 5      | 4       | 060-6-5 | 78       | 10K    | 050    | 204 - 11         |
| 0700 | 14-20N | 170-49W | " "         | 20  | 1015 | 78    | 69     | 75      | 4      | 3       | 060-6-5 | 78       | 14K    | 050    | 204 - 11         |
| 0800 | 14-10N | 170-54W | " "         | 20  | 1016 | 78    | 69     | 75      | 4      | 3       | 070-6-5 | 78       | 16K    | 050    | 204 - 11         |
| 0900 | 14-00N | 170-58W | " "         | 20  | 1016 | 80    | 68     | 68      | 6      | 5       | 070-6-5 | 79       | 15     | 070    | 200 11           |
| 1000 | 13-53N | 171-05W | " "         | 20  | 1016 | 80    | 68     | 68      | 6      | 5       | 070-6-5 | 79       | 15     | 070    | 200 11           |
| 1100 | 13-42N | 171-10W | " "         | 20  | 1016 | 80    | 68     | 68      | 6      | 5       | 070-6-5 | 79       | 15     | 070    | 200 11           |
| 1200 | 13-32N | 171-15W | " "         | 20  | 1016 | 80    | 68     | 68      | 6      | 5       | 070-6-5 | 79       | 15     | 070    | 200 11           |
| 1300 | 13-23N | 171-18W | " "         | 20  | 1015 | 79    | 67     | 68      | 9      | 7       | 080-6-5 | 79       | 13     | 075    | 200 11           |
| 1400 | 13-15N | 171-22W | 0'cast      | 20  | 1014 | 79    | 67     | 68      | 9      | 7       | 080-6-5 | 79       | 14     | 075    | 200 11           |
| 1500 | 13-06N | 171-27W | Partly Cl'd | 20  | 1013 | 80    | 68     | 68      | 7      | 5       | 080-6-5 | 79       | 17     | 065    | 200 11           |
| 1600 | 12-56N | 171-31W | 0'cast      | 20  | 1013 | 80    | 68     | 68      | 9      | 5       | 080-6-5 | 79       | 15     | 070    | 200 11           |
| 1700 | 12-44N | 171-43W | " "         | 20  | 1013 | 79    | 67     | 68      | 10     | 6       | 080-6-5 | 78       | 15     | 080    | 200 11           |
| 1800 | 12-35N | 171-47W | " "         | 20  | 1014 | 78    | 69     | 75      | 10     | 6       | 080-6-5 | 78       | 15     | 080    | 200 11           |
| 1900 | 12-26N | 171-51W | " "         | 20  | 1014 | 78    | 69     | 75      | 10     | 6       | 080-6-5 | 78       | 15     | 080    | 200 11           |
| 2000 | 12-17N | 171-56W | " "         | 20  | 1015 | 78    | 69     | 75      | 10     | 6       | 080-6-5 | 78       | 15     | 080    | 200 11           |
| 2100 | 12-07N | 172-00W | Partly Cl'd | 20  | 1015 | 78    | 69     | 75      | 6      | 6       | 090-6-5 | 78       | 12     | 090    | 200 11.0         |
| 2200 | 11-57N | 172-05W | " "         | 20  | 1015 | 78    | 69     | 75      | 6      | 6       | 090-6-5 | 78       | 12     | 090    | 200 11.0         |
| 2300 | 11-46N | 172-10W | " "         | 20  | 1015 | 78    | 69     | 75      | 6      | 6       | 090-6-5 | 78       | 12     | 090    | 200 11.0         |
| 2400 | 11-36N | 172-14W | " "         | 20  | 1015 | 78    | 69     | 75      | 6      | 6       | 090-6-5 | 78       | 12     | 090    | 200 11.0         |

REMARKS:

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

SI-MNH-955  
12-5-63



DATE 2 Feb 1966

| TIME | LAT    | LONG    | PRES WEA          | VIS | SLP  | DRY B | DEW PT | HUMID% | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|---------|-------------------|-----|------|-------|--------|--------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 11-28N | 172-18W | Partly Cldy       | 20  | 1013 | 78    | 69     | 75     | 8      | 7       | 090-6-5 | 78       | 13     | 070    | 200 11           |
| 0200 | 11-18N | 172-23W | " "               | 20  | 1012 | 78    | 69     | 75     | 5      | 3       | 090-6-5 | 78       | 18     | 065    | 200 11           |
| 0300 | 11-08N | 172-27W | " "               | 20  | 1012 | 78    | 69     | 75     | 8      | 3       | 080-6-5 | 78       | 17     | 065    | 200 11           |
| 0400 | 10-58N | 172-32W | " "               | 20  | 1011 | 78    | 69     | 75     | 8      | 5       | 080-6-5 | 78       | 17     | 065    | 200 11           |
| 0500 | 10-49N | 172-40W | " "               | 20  | 1011 | 78    | 69     | 75     | 6      | 4       | 080-6-5 | 78       | 16     | 060    | 200-11           |
| 0600 | 10-39N | 172-45W | CLOUDY            | 20  | 1012 | 78    | 69     | 75     | 6      | 4       | 070-6-5 | 78       | 16     | 060    | 200-11           |
| 0700 | 10-29N | 172-50W | "                 | 20  | 1012 | 78    | 69     | 75     | 8      | 5       | 070-6-5 | 78       | 16     | 060    | 200-11           |
| 0800 | 10-19N | 172-54W | <del>CLOUDY</del> | 20  | 1013 | 78    | 69     | 75     | 10     | 6       | 070-6-5 | 80       | 16     | 060    | 200-11           |
| 0900 | 10-09N | 172-58W | Cloudy            | 20  | 1013 | 81    | 69     | 68     | 7      | 4       | 070-6-5 | 070      | 15     | 070    | 198 11           |
| 1000 | 9-00N  | 173 04W | "                 | 20  | 1013 | 81    | 69     | 68     | 7      | 4       | 070-6-5 | 070      | 15     | 070    | 198 11           |
| 1100 | 9-49N  | 173 08W | "                 | 20  | 1013 | 81    | 69     | 68     | 7      | 4       | 070-6-5 | 070      | 15     | 070    | 198 11           |
| 1200 | 9-38N  | 173 12W | "                 | 20  | 1013 | 81    | 69     | 68     | 7      | 4       | 070-6-5 | 070      | 15     | 070    | 198 11           |
| 1300 | 9-30N  | 173-16W | Partly Cldy       | 20  | 1012 | 82    | 71     | 69     | 5      | 3       | 070-6-5 | 79       | 11     | 045    | 198 11           |
| 1400 | 9-25N  | 173-21W | " "               | 20  | 1010 | 82    | 71     | 69     | 8      | 6       | 070-6-5 | 79       | 15     | 050    | 198 11           |
| 1500 | 9-10N  | 173-26W | " "               | 20  | 1010 | 82    | 71     | 69     | 9      | 8       | 070-6-5 | 79       | 16     | 050    | 198 11           |
| 1600 | 9-00N  | 173-30W | " "               | 20  | 1010 | 82    | 71     | 69     | 9      | 8       | 070-6-5 | 80       | 16     | 050    | 198 11           |
| 1700 | 8-52N  | 173-35W | CLOUDY            | 20  | 1010 | 81    | 73     | 75     | 9      | 8       | 060-6-5 | 80       | 17     | 045    | 198-11           |
| 1800 | 8-43N  | 173-39W | O'CAST            | 20  | 1010 | 81    | 73     | 75     | 10     | 9       | 060-6-5 | 80       | 18     | 045    | 198 11           |
| 1900 | 8-33N  | 173 43W | "                 | 20  | 1010 | 81    | 73     | 75     | 10     | 9       | 060-6-5 | 80       | 18     | 045    | 198 11           |
| 2000 | 8-23N  | 173-47W | "                 | 20  | 1011 | 81    | 73     | 75     | 10     | 9       | 060-6-5 | 80       | 18     | 045    | 198 11           |
| 2100 | 8-13N  | 173 51W | "                 | 20  | 1011 | 80    | 74     | 83     | 8      | 7       | 060-6-6 | 80       | 18     | 045    | 196 11.0         |
| 2200 | 8-02N  | 173 54W | "                 | 20  | 1011 | 80    | 74     | 83     | 8      | 7       | 060-6-6 | 80       | 18     | 045    | 196 11.0         |
| 2300 | 7-52N  | 173-58W | "                 | 20  | 1011 | 80    | 74     | 83     | 8      | 7       | 060-6-6 | 80       | 18     | 045    | 196 11.0         |
| 2400 | 7-42N  | 174 03W | "                 | 20  | 1011 | 80    | 74     | 83     | 8      | 7       | 060-6-6 | 80       | 18     | 045    | 196 11.0         |

REMARKS:

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

SI-MNH-955  
12-5-63

DATE 3 Feb. 1966

| TIME | LAT   | LONG    | PRES WEA    | VIS | SLP  | DRY B | DEW PT | HUMID/O | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD.   |
|------|-------|---------|-------------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|--------------------|
| 0100 | 7-30N | 174-05W | Clear       | 20  | 1010 | 81    | 74     | 80      | 12     | 9       | 060-6-6 | 80       | 22     | 050    | 196 11             |
| 0200 | 7-20N | 174-09W | Ptly Cldy   | 20  | 1009 | 81    | 74     | 80      | 8      | 7       | 070-6-6 | 80       | 20     | 050    | 196 11             |
| 0300 | 7-17N | 174-13W | " "         | 20  | 1009 | 81    | 74     | 80      | 6      | 4       | 070-6-6 | 80       | 20     | 050    | 196 11             |
| 0400 | 7-08N | 174-17W | " "         | 20  | 1009 | 81    | 74     | 80      | 7      | 5       | 070-6-6 | 80       | 18     | 050    | 196 11             |
| 0500 | 6-50N | 174-11W | OCAS T      | 20  | 1009 | 81    | 76     | 84      | 10     | 9       | 070-6-6 | 80       | 18     | 050    | 196 11             |
| 0600 | 6-40N | 174-15W | "           | 20  | 1009 | 81    | 76     | 84      | 10     | 9       | 070-6-6 | 80       | 18     | 050    | 196 11             |
| 0700 | 6-30N | 174-18W | "           | 20  | 1010 | 81    | 76     | 84      | 10     | 10      | 070-6-6 | 80       | 18     | 050    | 196 11             |
| 0800 | 6-21N | 174-22W | "           | 20  | 1010 | 81    | 76     | 84      | 10     | 9       | 070-6-6 | 83       | 19     | 050    | 202 11             |
| 0900 | 6-10N | 174-26W | Cloudy      | 20  | 1010 | 85    | 76     | 76      | 10     | 9       | 060-6-6 | 82       | 17     | 050    | 202 11.0           |
| 1000 | 6-00N | 174-29W | "           | 20  | 1010 | 85    | 76     | 76      | 6      | 5       | 060-6-6 | 82       | 18     | 050    | 202 11.0           |
| 1100 | 5-50N | 174-33W | "           | 20  | 1010 | 85    | 76     | 76      | 6      | 5       | 060-6-6 | 82       | 18     | 050    | 202 11.0           |
| 1200 | 5-40N | 174-38W | "           | 20  | 1010 | 85    | 76     | 76      | 6      | 5       | 060-6-6 | 82       | 18     | 050    | 202 11.0           |
| 1300 | 5-34N | 174-40W | Ptly Cldy   | 20  | 1008 | 84    | 77     | 80      | 8      | 6       | 060-6-6 | 82       | 18     | 050    | 202 10.5           |
| 1400 | 5-28N | 174-43W | " "         | 20  | 1007 | 84    | 77     | 80      | 5      | 4       | 060-6-6 | 82       | 17     | 050    | 202 10.5           |
| 1500 | 5-22N | 174-46W | " "         | 20  | 1007 | 86    | 76     | 73      | 5      | 4       | 060-6-6 | 82       | 17     | 050    | 202 10.5           |
| 1600 | 5-15N | 174-51W | Cldy/rain   | 20  | 1007 | 86    | 76     | 73      | 8      | 6       | 050-6-6 | 82       | 13     | 030    | 202 10.5           |
| 1700 | 5-12N | 174-53W | "           | 15  | 1008 | 82    | 77     | 84      | 10     | 9       | 040-6-5 | 82       | 15     | 030    | VARIOUS - MANEUVER |
| 1800 | 5-08N | 174-57W | "           | 14  | 1008 | 80    | 74     | 83      | 10     | 10      | 040-6-5 | 82       | 17     | 035    | "                  |
| 1900 | 5-04N | 175-01W | "           | 10  | 1009 | 79    | 78     | 96      | 10     | 10      | 040-6-5 | 82       | 18     | 035    | 202 10.5           |
| 2000 | 4-54N | 175-04W | "           | 10  | 1009 | 79    | 78     | 96      | 10     | 10      | 040-6-5 | 83       | 18     | 030    | 202 10.5           |
| 2100 | 4-45N | 175-09W | "           | 15  | 1009 | 80    | 74     | 83      | 10     | 9       | 040-6-5 | 83       | 15     | 030    | 202 10             |
| 2200 | 4-35N | 175-12W | Partly Cldy | 20  | 1010 | 81    | 74     | 80      | 9      | 8       | 040-5-4 | 83       | 12     | 030    | 202 10             |
| 2300 | 4-25N | 175-16W | " "         | 20  | 1010 | 81    | 74     | 80      | 8      | 7       | 040-5-4 | 83       | 11     | 030    | 202 10             |
| 2400 | 4-15N | 175-20W | " "         | 20  | 1010 | 81    | 74     | 80      | 7      | 6       | 040-5-4 | 83       | 10     | 030    | 202 10             |

REMARKS:

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

SI-MNH-955  
12-5-63

DATE 4 Feb 1966

| TIME | LAT    | LONG     | PRES WEA      | VIS | SLP  | DRY B | DEW PT | HUMID % | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|----------|---------------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 4-06 N | 175-26 W | Partly Cloudy | 15  | 1007 | 81    | 78     | 91      | 7      | 5       | 040-5-4 | 83       | 8      | 030    | 202 10.5         |
| 0200 | 3-57 N | 175-29 W | " "           | 15  | 1007 | 82    | 77     | 84      | 8      | 7       | 240-5-4 | 83       | 9      | 040    | 202 10.5         |
| 0300 | 3-47 N | 175-33 W | " "           | 20  | 1007 | 82    | 77     | 84      | 6      | 4       | 240-5-4 | 83       | 9      | 030    | 202 10.5         |
| 0400 | 3-38 N | 175-36 W | " "           | 20  | 1007 | 82    | 77     | 84      | 6      | 4       | 240-5-4 | 83       | 7      | 030    | 202 10.5         |
| 0500 | 3-27 N | 175-41 W | " "           | 20  | 1007 | 82    | 78     | 88      | 5      | 4       | 040-6-4 | 83       | 3      | 030    | 202 11           |
| 0600 | 3-17 N | 175-46 W | " "           | 20  | 1007 | 82    | 78     | 88      | 4      | 3       | 040-6-4 | 83       | 3      | 030    | 202 11           |
| 0700 | 3-07 N | 175-49 W | " "           | 20  | 1007 | 82    | 78     | 88      | 4      | 3       | 040-6-4 | 83       | 3      | 030    | 202 11           |
| 0800 | 2-57 N | 175-53 W | " "           | 20  | 1007 | 82    | 78     | 88      | 5      | 3       | 040-6-4 | 83       | 4      | 030    | 200 11           |
| 0900 | 2-49 N | 175-55 W | " "           | 20  | 1009 | 86    | 78     | 77      | 7      | 6       | 135-6-3 | 83       | 5      | 090    | 200 8            |
| 1000 | 2-42 N | 175-58 W | " "           | 20  | 1009 | 86    | 78     | 77      | 7      | 6       | 135-6-3 | 83       | 5      | 090    | 200 8            |
| 1100 | 2-34 N | 176-01 W | " "           | 20  | 1009 | 86    | 78     | 77      | 7      | 6       | 135-6-3 | 83       | 5      | 090    | 200 8            |
| 1200 | 2-27 N | 176-04 W | " "           | 20  | 1009 | 86    | 78     | 77      | 7      | 6       | 135-6-3 | 83       | 5      | 090    | 200 8            |
| 1300 | 2-21 N | 176-06 W | Partly Cloudy | 20  | 1009 | 87    | 78     | 74      | 7      | 5       | Conf.   | 83       | 5      | 090    | 206 8            |
| 1400 | 2-16 N | 176-07 W | " "           | 20  | 1008 | 87    | 78     | 74      | 9      | 8       | "       | 83       | 5      | 090    | 206 8            |
| 1500 | 2-12 N | 176-09 W | " "           | 20  | 1007 | 87    | 78     | 74      | 8      | 7       | "       | 83       | 5      | 090    | 200 8 Var        |
| 1600 | 2-10 N | 176-11 W | " "           | 20  | 1007 | 87    | 78     | 74      | 8      | 6       | "       | 83       | 5      | 090    | 200 8 "          |
| 1700 | 2-06 N | 176-17 W | Cloudy        | 20  | 1007 | 85    | 77     | 77      | 9      | 8       | "       | 83       | 5      | 080    | VAR              |
| 1800 | 2-00 N | 176-23 W | O'CAST        | 20  | 1007 | 85    | 77     | 77      | 10     | 9       | "       | 83       | 4      | 080    | 193 7            |
| 1900 | 1-53 N | 176-26 W | "             | 20  | 1008 | 85    | 77     | 77      | 10     | 10      | "       | 83       | 5      | 080    | 193 7            |
| 2000 | 1-45 N | 176-28 W | "             | 20  | 1008 | 85    | 77     | 77      | 10     | 10      | "       | 83       | 4      | 080    | 190 7            |
| 2100 | 1-38 N | 176-29 W | "             | 20  | 1009 | 85    | 77     | 77      | 10     | 10      | "       | 83       | 5      | 090    | 190 7            |
| 2200 | 1-31 N | 176-30 W | "             | 20  | 1009 | 85    | 77     | 77      | 10     | 10      | "       | 83       | 5      | 090    | 190 7            |
| 2300 | 1-25 N | 176-31 W | "             | 20  | 1009 | 85    | 77     | 77      | 10     | 10      | "       | 83       | 5      | 090    | 190 7            |
| 2400 | 1-19 N | 176-32 W | "             | 20  | 1009 | 85    | 77     | 77      | 10     | 10      | "       | 83       | 5      | 090    | 190 7            |

REMARKS:

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SI-MNH-955  
12-5-63

4700  
0707

DATE 5 Feb. 1966

| TIME | LAT    | LONG     | PRES WEA | VIS | SLP  | DRY B | DEW PT | HUMID% | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SFD. |
|------|--------|----------|----------|-----|------|-------|--------|--------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 1-12 N | 176-34 W | D'cast   | 20  | 1009 | 84    | 79     | 84     | 10     | 9       | CONF    | 82       | 8      | 070    | 190 7            |
| 0200 | 1-04 N | 176-43 W | "        | 20  | 1008 | 84    | 79     | 84     | 9      | 8       | "       | 82       | 9      | 070    | 190 7            |
| 0300 | 0-59 N | 176-48 W | "        | 20  | 1008 | 84    | 79     | 84     | 9      | 8       | "       | 82       | 7      | 070    | 190 7            |
| 0400 | 0-53 N | 176-47 W | "        | 20  | 1008 | 84    | 79     | 84     | 8      | 6       | "       | 82       | 10     | 070    | 190 7            |
| 0500 | 0-49 N | 176-43 W | "        | 20  | 1008 | 84    | 79     | 84     | 10     | 9       | "       | 82       | 12     | 080    | 105-4            |
| 0600 | 0-48 N | 176-39 W | "        | 20  | 1008 | 84    | 79     | 84     | 10     | 9       | "       | 82       | 10     | 090    | 105-4            |
| 0700 | 0-48 N | 176-38 W | "        | 20  | 1009 | 84    | 79     | 84     | 10     | 9       | "       | 82       | 10     | 090    | DRAFT-           |
| 0800 | 0-48 N | 176-38 W | Cloudy   | 20  | 1009 | 84    | 79     | 84     | 9      | 8       | "       | 82       | 10     | 135    | 166-7            |
| 0900 | 0-41 H | 176-37 W | Pr. Clod | 20  | 1010 | 85    | 79     | 84     | 6      | 5       | 130-5-4 | 82       | 10     | 135    | 163 7            |
| 1000 | 0-34 H | 176-35 W | "        | 20  | 1010 | 85    | 79     | 84     | 6      | 5       | 130-5-4 | 82       | 10     | 135    | 163 7            |
| 1100 | 0-27 H | 176-33 W | "        | 20  | 1010 | 85    | 79     | 84     | 6      | 5       | 130-5-4 | 82       | 10     | 135    | 163 7            |
| 1200 | 0-21 H | 176-32 W | "        | 20  | 1010 | 85    | 79     | 84     | 6      | 5       | 130-5-4 | 82       | 10     | 135    | 163 7            |
| 1300 | 0-15 H | 176-31 W | "        | 20  | 1009 | 87    | 76     | 71     | 2      | 0       | CONF    | 82       | 13     | 135    | <del>145</del> 7 |
| 1400 | 0-11 N | 176-29 W | "        | 20  | 1009 | 87    | 76     | 71     | 2      | 0       | CONF    | 82       | 13     | 135    | <del>145</del> 7 |
| 1500 | 0-11 N | 176-31 W | "        | 20  | 1008 | 86    | 75     | 70     | 2      | 0       | "       | 82       | 14     | 135    | 270 7            |
| 1600 | 0-11 N | 176-36 W | "        | 20  | 1008 | 86    | 75     | 70     | 1      | 0       | "       | 82       | 16     | 135    | 270 7            |
| 1700 | 0-12 N | 176-49 W | "        | 20  | 1007 | 86    | 74     | 77     | 2      | 1       | "       | 82       | 12     | 135    | 345 7            |
| 1800 | 0-18 N | 176-49 W | "        | 20  | 1008 | 86    | 74     | 77     | 4      | 3       | "       | 83       | 10     | 110    | 345 7            |
| 1900 | 0-27 N | 176-52 W | "        | 20  | 1008 | 86    | 74     | 77     | 6      | 5       | "       | 83       | 8      | 100    | 345 7            |
| 2000 | 0-34 N | 176-53 W | Cloudy   | 20  | 1009 | 86    | 75     | 77     | 9      | 8       | CONF    | 85       | 10     | 100    | 034 7            |
| 2100 | 0-38 H | 176-49 W | "        | 20  | 1009 | 86    | 78     | 77     | 7      | 6       | 135-6-3 | 84       | 12     | 135    | 051 7            |
| 2200 | 0-43 H | 176-46 W | "        | 20  | 1008 | 86    | 78     | 77     | 7      | 6       | 135-6-3 | 84       | 12     | 130    | 060 6.5          |
| 2300 | 0-45 H | 176-39 W | "        | 20  | 1010 | 86    | 77     | 77     | 7      | 6       | 135-6-3 | 84       | 12     | 130    | 090 6.5          |
| 2400 | 0-48 H | 176-33 W | "        | 20  | 1010 | 86    | 77     | 77     | 7      | 6       | 135-6-3 | 84       | 12     | 130    | 065-6.5          |

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SI-MNH-955  
12-5-63

0800  
0700  
0600

DATE

6 Feb 1966

| TIME | LAT    | LONG     | PRES WEA  | VIS | SLP  | DRY B | DEW PT | HUMID/O | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|----------|-----------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 0-50'N | 176-29 W | Pfly Cldy | 20  | 1010 | 84    | 77     | 80      | 4      | 1       | 135-5-2 | 84       | 13     | 100    | 064 7            |
| 0200 | 0-53 N | 176-23 W | " "       | 20  | 1010 | 84    | 77     | 80      | 3      | 1       | 120-5-2 | 84       | 15     | 100    | 064 7            |
| 0300 | 0-57 N | 176-17 W | " "       | 20  | 1010 | 84    | 77     | 80      | 2      | 1       | 120-5-2 | 84       | 15     | 100    | 064 7            |
| 0400 | 1-03 N | 176-12 W | " "       | 20  | 1009 | 84    | 77     | 80      | 3      | 1       | 120-5-2 | 84       | 16     | 100    | 064 7            |
| 0500 | 1-07 N | 176-09 W | " "       | 20  | 1009 | 84    | 77     | 80      | 4      | 2       | 100-5-3 | 84       | 12     | 110    | 064 - 7          |
| 0600 | 1-09 N | 176-04 W | " "       | 20  | 1009 | 84    | 77     | 80      | 5      | 3       | 100-5-3 | 84       | 12     | 110    | 135 - 7          |
| 0700 | 1-01 N | 176-02 W | " "       | 20  | 1009 | 84    | 76     | 76      | 5      | 3       | 095-5-3 | 84       | 14     | 095    | 135 - 7          |
| 0800 | 1-06 N | 175-57 W | " "       | 20  | 1009 | 84    | 76     | 76      | 7      | 3       | 100-5-4 | 84       | 12     | 090    | 048 - 7          |
| 0900 | 1-10 N | 175-52 W | Few Cld   | 20  | 1010 | 87    | 70     | 72      | 6      | 4       | 090-5-4 | 84       | 12     | 090    | 050 6.5          |
| 1000 | 1-15 N | 175-48 W | " "       | 20  | 1010 | 87    | 70     | 72      | 6      | 4       | 090-5-4 | 84       | 12     | 090    | 050 6.5          |
| 1100 | 1-20 N | 175-44 W | " "       | 20  | 1010 | 87    | 70     | 72      | 6      | 4       | 090-5-4 | 84       | 12     | 090    | 050 6.5          |
| 1200 | 1-24 N | 175-39 W | " "       | 20  | 1010 | 87    | 70     | 72      | 6      | 4       | 090-5-4 | 84       | 12     | 090    | 050 6.5          |
| 1300 | 1-29 N | 175-35 W | " "       | 20  | 1009 | 86    | 75     | 70      | 4      | 1       | 090-5-4 | 84       | 12     | 080    | 050 6.5          |
| 1400 | 1-29 N | 175-29 W | " "       | 20  | 1008 | 84    | 76     | 76      | 5      | 2       | 090-5-4 | 84       | 14     | 080    | 135 6.5          |
| 1500 | 1-24 N | 175-26 W | " "       | 20  | 1008 | 84    | 76     | 76      | 4      | 1       | 090-5-4 | 84       | 13     | 060    | 135 6.5          |
| 1600 | 1-20 N | 175-22 W | " "       | 20  | 1008 | 84    | 76     | 76      | 4      | 1       | 090-5-4 | 84       | 13     | 070    | 135 6.5          |
| 1700 | 1-15 N | 175-17 W | Part Cldy | 20  | 1008 | 85    | 75     | 73      | 3      | 1       | 090-6-4 | 84       | 12     | 080    | 135 6.5          |
| 1800 | 1-09 N | 175-11 W | " "       | 20  | 1008 | 85    | 75     | 73      | 4      | 2       | 090-6-4 | 84       | 12     | 080    | 135 6.5          |
| 1900 | 1-04 N | 175-11 W | " "       | 20  | 1008 | 85    | 75     | 73      | 4      | 2       | 090-6-4 | 84       | 12     | 080    | 233 - 7.0        |
| 2000 | 0-57 N | 175-25 W | " "       | 20  | 1009 | 85    | 75     | 73      | 4      | 2       | 090-6-4 | 84       | 12     | 080    | 229 - 7.0        |
| 2100 | 0-51 N | 175-33 W | " "       | 20  | 1010 | 85    | 75     | 73      | 4      | 2       | 010-5-4 | 84       | 12     | 070    | 229 8.0          |
| 2200 | 0-47 N | 175-40 W | " "       | 20  | 1010 | 85    | 75     | 73      | 7      | 2       | 070-5-3 | 84       | 12     | 070    | 229 - 8.0        |
| 2300 | 0-42 N | 175-46 W | " "       | 20  | 1010 | 85    | 75     | 73      | 7      | 2       | 070-5-3 | 84       | 12     | 070    | 229 - 8.0        |
| 2400 | 0-38 N | 175-53 W | " "       | 20  | 1010 | 85    | 75     | 73      | 4      | 2       | 070-5-3 | 84       | 12     | 070    | 229 - 8.0        |

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SI-MNH-955

12-5-63

DATE 7 Feb 1966

| TIME | LAT   | LONG    | PRES WEA      | VIS | SLP  | DRY B | DEW PT | HUMID | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|-------|---------|---------------|-----|------|-------|--------|-------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 0-33N | 176-00W | Partly Cloudy | 20  | 1010 | 84    | 76     | 76    | 2      | 0       | 070-5-3 | 84       | 10     | 070    | 229 8            |
| 0200 | 0-28N | 176-05W | " "           | 20  | 1009 | 84    | 76     | 76    | 6      | 4       | 270-5-3 | 84       | 11     | 060    | 229 8            |
| 0300 | 0-24N | 176-12W | " "           | 20  | 1009 | 84    | 76     | 76    | 3      | 1       | 070-5-3 | 84       | 13     | 050    | 229 8            |
| 0400 | 0-19N | 176-18W | " "           | 20  | 1009 | 84    | 76     | 76    | 4      | 2       | 070-5-3 | 84       | 13     | 060    | 229 8            |
| 0500 | 0-15N | 176-26W | " "           | 20  | 1009 | 84    | 76     | 76    | 4      | 3       | 070-5-3 | 84       | 12     | 070    | 210-4            |
| 0600 | 0-11N | 176-29W | " "           | 20  | 1009 | 84    | 76     | 76    | 5      | 4       | 070-5-4 | 84       | 16     | 060    | DRIFTING         |
| 0700 | 0-11N | 176-29W | " "           | 20  | 1010 | 84    | 76     | 76    | 5      | 4       | 070-5-4 | 84       | 14     | 055    | DRIFTING         |
| 0800 | 0-17N | 176-31W | " "           | 20  | 1010 | 84    | 76     | 76    | 5      | 4       | 070-5-4 | 84       | 14     | 055    | 350-6            |
| 0900 | 0-24N | 176-32W | Cloudy        | 20  | 1010 | 85    | 77     | 80    | 7      | 5       | 050-6-4 | 84       | 15     | 050    | 351 6.5          |
| 1000 | 0-30N | 176-33W | "             | 20  | 1010 | 85    | 77     | 80    | 7      | 5       | 050-6-5 | 84       | 15     | 050    | 351 6.5          |
| 1100 | 0-36N | 176-35W | "             | 20  | 1010 | 85    | 77     | 80    | 7      | 5       | 050-6-5 | 84       | 15     | 050    | 351 6.5          |
| 1200 | 0-43N | 176-36W | "             | 20  | 1010 | 85    | 77     | 80    | 7      | 5       | 050-6-5 | 84       | 15     | 050    | 351 6.5          |
| 1300 | 0-47N | 176-39W | "             | 20  | 1010 | 85    | 77     | 80    | 7      | 5       | 050-6-5 | 84       | 15     | 050    | Drifting         |
| 1400 | 0-48N | 176-43W | "             | 20  | 1009 | 85    | 77     | 80    | 8      | 6       | 050-6-5 | 84       | 15     | 050    | 305-8            |
| 1500 | 0-54N | 176-46W | "             | 20  | 1009 | 84    | 77     | 80    | 7      | 5       | 050-6-5 | 84       | 17     | 060    | 305-8            |
| 1600 | 0-56N | 176-52W | "             | 20  | 1008 | 84    | 77     | 80    | 7      | 6       | 050-6-5 | 84       | 15     | 060    | 305-8            |
| 1700 | 1-00N | 176-59W | "             | 20  | 1008 | 84    | 76     | 76    | 8      | 7       | 050-6-5 | 84       | 14     | 050    | 305-7            |
| 1800 | 1-05N | 177-05W | O'CAST        | 20  | 1007 | 84    | 76     | 76    | 10     | 9       | 050-6-5 | 84       | 12     | 050    | 305-7            |
| 1900 | 1-06N | 177-10W | "             | 20  | 1007 | 84    | 76     | 76    | 10     | 9       | 050-6-5 | 84       | 12     | 050    | 305-7            |
| 2000 | 1-08N | 177-14W | "             | 20  | 1008 | 84    | 76     | 76    | 10     | 9       | 050-6-5 | 84       | 12     | 050    | 305-7            |
| 2100 | 1-12N | 177-19W | Cloudy        | 20  | 1009 | 84    | 76     | 76    | 8      | 6       | 050-6-4 | 84       | 12     | 050    | 308 7.5          |
| 2200 | 1-15N | 177-26W | "             | 20  | 1009 | 84    | 76     | 76    | 8      | 6       | 050-6-4 | 84       | 12     | 050    | 308 7.5          |
| 2300 | 1-19N | 177-32W | "             | 20  | 1009 | 84    | 76     | 76    | 8      | 6       | 050-6-4 | 84       | 12     | 050    | 308 7.5          |
| 2400 | 1-24N | 177-39W | "             | 20  | 1009 | 84    | 76     | 76    | 8      | 6       | 050-6-4 | 84       | 12     | 050    | 308 7.5          |

REMARKS:

XRAY

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

SI-MNH-955

12-5-63

DATE 8 Feb 1966

| TIME | LAT <sup>74</sup> | LONG <sup>39</sup> | PRES WEA | VIS | SLP  | DRY B | DEW PT | HUMID/O | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SFD. |
|------|-------------------|--------------------|----------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 1-27 N            | 177-45 W           | CLdy     | 20  | 1008 | 84    | 76     | 76      | 8      | 6       | 250-6-4 | 84       | 15     | 050    | 308 7.5          |
| 0200 | 1-23 N            | 177-51 W           | CLdy     | 20  | 1008 | 84    | 76     | 76      | 6      | 4       | 250-6-4 | 84       | 15     | 050    | 308 7.5          |
| 0300 | 1-37 N            | 177-58 W           | "        | 20  | 1008 | 84    | 76     | 76      | 6      | 4       | 250-6-4 | 84       | 13     | 250    | 308 7.5          |
| 0400 | 1-36 N            | 178-03 W           | " w/mist | 15  | 1008 | 84    | 76     | 76      | 8      | 7       | 250-6-4 | 84       | 12     | 050    | 190 8            |
| 0500 | 1-32 N            | 178-10 W           | CLdy     | 20  | 1007 | 84    | 76     | 76      | 7      | 6       | 040-6-4 | 84       | 15     | 055    | 190 - 7.5        |
| 0600 | 1-25 N            | 178-12 W           | PARTCLOD | 20  | 1007 | 84    | 76     | 76      | 5      | 4       | 040-6-4 | 84       | 15     | 055    | 190 - 7.5        |
| 0700 | 1-17 N            | 178-14 W           | " "      | 20  | 1008 | 84    | 76     | 76      | 5      | 4       | 040-6-4 | 84       | 15     | 055    | 190 - 7.5        |
| 0800 | 1-09 N            | 178-15 W           | " "      | 20  | 1009 | 84    | 76     | 76      | 5      | 4       | 040-6-4 | 84       | 12     | 060    | 180 - 8.0        |
| 0900 | 1-01 N            | 178-16 W           | "        | 20  | 1008 | 86    | 75     | 70      | 5      | 4       | 060-6-4 | 84       | 12     | 060    | 178 7.5          |
| 1000 | 0-53 N            | 178-14 W           | "        | 20  | 1008 | 86    | 75     | 70      | 5      | 4       | 060-6-4 | 84       | 12     | 060    | 178 7.5          |
| 1100 | 0-45 N            | 178-17 W           | "        | 20  | 1008 | 86    | 75     | 70      | 5      | 4       | 060-6-4 | 84       | 12     | 060    | 178 7.5          |
| 1200 | 0-42 N            | 178-13 W           | "        | 20  | 1008 | 86    | 75     | 70      | 5      | 4       | 060-6-4 | 84       | 12     | 060    | 250 7.0          |
| 1300 | 0-51 N            | 178-13 W           | "        | 20  | 1007 | 88    | 79     | 74      | 3      | 1       | 260-6-4 | 84       | 12     | 260    | 250 7.0          |
| 1400 | 0-47 N            | 178-09 W           | "        | 20  | 1007 | 86    | 78     | 77      | 4      | 2       | 260-6-4 | 84       | 13     | 060    | 055 7.0          |
| 1500 | 0-57 N            | 178-05 W           | "        | 20  | 1007 | 86    | 78     | 77      | 3      | 1       | 060-6-5 | 84       | 15     | 060    | 055 7.0          |
| 1600 | 0-52 N            | 178-04 W           | "        | 20  | 1007 | 86    | 77     | 77      | 3      | 1       | 060-6-5 | 84       | 15     | 060    | 255 7.0          |
| 1700 | 0-58 N            | 177-58 W           | CLOUDY   | 20  | 1007 | 84    | 76     | 76      | 4      | 7       | 080-6-5 | 84       | 18     | 080    | 055 - 8.5        |
| 1800 | 1-05 N            | 177-52 W           | O'CAST   | 15  | 1007 | 82    | 77     | 84      | 10     | 10      | 080-6-5 | 84       | 18     | 105    | 055 - 8.5        |
| 1900 | 1-12 N            | 177-46 W           | CLOUDY   | 20  | 1008 | 81    | 78     | 91      | 8      | 7       | 080-6-5 | 84       | 18     | 110    | 055 - 8.5        |
| 2000 | 1-18 N            | 177-40 W           | "        | 20  | 1008 | 83    | 78     | 84      | 8      | 7       | 070-6-5 | 85       | 15     | 090    | 055 - 8.5        |
| 2100 | 1-24 N            | 177-33 W           | FEW CBB  | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 130-6-5 | 85       | 15     | 130    | 055 9.0          |
| 2200 | 1-31 N            | 177-26 W           | "        | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 130-6-5 | 85       | 15     | 130    | 055 9.0          |
| 2300 | 1-37 N            | 177-20 W           | "        | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 130-6-5 | 85       | 15     | 130    | 055 9.0          |
| 2400 | 1-43 N            | 177-14 W           | "        | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 130-6-5 | 85       | 15     | 130    | 055 9.0          |

REMARKS:

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

SI-MNH-955  
12-5-63

45  
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DATE 9 Feb. 1966

| TIME | LAT    | LONG     | PRES WEA  | VIS | SLP  | DRY B | DEW PT | HUMID/O | TOT SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|----------|-----------|-----|------|-------|--------|---------|---------|---------|---------|----------|--------|--------|------------------|
| 0100 | 1-49 N | 177-07 W | Partly Cl | 20  | 1007 | 84    | 77     | 80      | 4       | 2       | 130-6-5 | 85       | 18     | 120    | 050 9            |
| 0200 | 1-54 N | 177-02 W | " "       | 20  | 1007 | 84    | 77     | 80      | 3       | 1       | 130-6-5 | 85       | 17     | 120    | 050 9            |
| 0300 | 2-00 N | 176-56 W | " "       | 20  | 1007 | 84    | 77     | 80      | 3       | 1       | 130-6-5 | 85       | 13     | 130    | 050 9            |
| 0400 | 2-01 N | 176-50 W | " "       | 20  | 1007 | 84    | 77     | 80      | 3       | 1       | 130-6-5 | 85       | 15     | 120    | 133 9            |
| 0500 | 1-53 N | 176-47 W | " "       | 20  | 1007 | 84    | 77     | 80      | 4       | 3       | 120-6-5 | 85       | 15     | 120    | 133 9            |
| 0600 | 1-47 N | 176-42 W | " "       | 20  | 1007 | 84    | 76     | 76      | 6       | 4       | 120-6-5 | 85       | 15     | 120    | 133 9            |
| 0700 | 1-40 N | 176-35 W | Cloudy    | 20  | 1008 | 84    | 76     | 76      | 9       | 9       | 120-6-5 | 85       | 15     | 120    | 133 9            |
| 0800 | 1-34 N | 176-29 W | Cloudy    | 20  | 1008 | 83    | 74     | 84      | 9       | 9       | 120-6-5 | 84       | 15     | 120    | 133 9            |
| 0900 | 1-29 N | 176-33 W | Few Cls   | 20  | 1008 | 87    | 77     | 74      | 3       | 2       | 120-6-5 | 84       | 15     | 110    | 220 10           |
| 1000 | 1-21 N | 176-39 W | "         | 20  | 1008 | 87    | 77     | 74      | 3       | 2       | 120-6-5 | 84       | 15     | 110    | 220 10           |
| 1100 | 1-15 N | 176-44 W | "         | 20  | 1008 | 87    | 77     | 74      | 3       | 2       | 120-6-5 | 84       | 15     | 110    | 220 10           |
| 1200 | 1-08 N | 176-57 W | "         | 20  | 1008 | 87    | 77     | 74      | 3       | 2       | 120-6-5 | 84       | 15     | 110    | 220 10           |
| 1300 | 1-04 N | 176-56 W | "         | 20  | 1008 | 87    | 78     | 74      | 4       | 2       | 120-6-5 | 84       | 17     | 110    | 220 10           |
| 1400 | 0-56 N | 177-04 W | "         | 20  | 1007 | 87    | 78     | 74      | 2       | 1       | 120-6-5 | 84       | 15     | 110    | 220 10           |
| 1500 | 0-49 N | 177-15 W | "         | 20  | 1006 | 87    | 78     | 74      | 2       | 1       | 120-6-5 | 84       | 17     | 095    | 220 11           |
| 1600 | 0-39 N | 177-21 W | "         | 20  | 1006 | 87    | 78     | 74      | 2       | 1       | 120-6-5 | 84       | 17     | 095    | 220 11           |
| 1700 | 0-33 N | 177-30 W | "         | 20  | 1006 | 86    | 78     | 77      | 3       | 1       | 100-6-5 | 85       | 18     | 090    | 220 11           |
| 1800 | 0-26 N | 177-39 W | "         | 20  | 1006 | 86    | 78     | 77      | 4       | 2       | 090-6-5 | 85       | 18     | 090    | 220 11           |
| 1900 | 0-19 N | 177-47 W | "         | 20  | 1007 | 86    | 78     | 77      | 4       | 2       | 090-6-5 | 85       | 18     | 090    | 220 11           |
| 2000 | 0-12 N | 177-55 W | "         | 20  | 1008 | 86    | 78     | 77      | 5       | 3       | 095-6-5 | 85       | 18     | 090    | 220 11           |
| 2100 | 0-05 N | 177-59 W | Scattered | 15  | 1008 | 82    | 79     | 92      | 8       | 8       | 100-6-5 | 85       | 15     | 100    | 206 11           |
| 2200 | 0-05 S | 178-05 W | "         | 15  | 1008 | 82    | 79     | 92      | 8       | 8       | 100-6-5 | 85       | 15     | 100    | 206 11           |
| 2300 | 0-12 S | 178-03 W | "         | 15  | 1008 | 82    | 79     | 92      | 8       | 8       | 100-6-5 | 85       | 15     | 100    | 132 9            |
| 2400 | 0-18 S | 177-56 W | "         | 15  | 1008 | 82    | 79     | 92      | 8       | 8       | 100-6-5 | 85       | 15     | 100    | 132 9            |

REMARKS:

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12-5-63



DATE 10 Feb. 1966

| TIME | LAT    | LONG     | PRES WEA  | VIS | SLP  | DRY B | DEW PT | HUMID/O | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|----------|-----------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 0-24 S | 177-51 W | O'cast    | 20  | 1007 | 85    | 78     | 81      | 9      | 5       | 100-6-5 | 85       | 15     | 120    | 132 9            |
| 0200 | 0-32 S | 177-46 W | "         | 20  | 1007 | 85    | 78     | 81      | 9      | 2       | 100-6-5 | 85       | 18     | 110    | 132 9            |
| 0300 | 0-40 S | 177-41 W | "         | 20  | 1007 | 85    | 78     | 81      | 9      | 2       | 100-6-5 | 85       | 17     | 110    | 132 9            |
| 0400 | 0-34 S | 177-35 W | Ptly Cldy | 20  | 1007 | 85    | 78     | 81      | 8      | 2       | 100-6-5 | 84       | 16     | 120    | 250 9            |
| 0500 | 0-33 S | 177-39 W | " "       | 20  | 1007 | 84    | 79     | 84      | 7      | 5       | 100-6-5 | 84       | 19     | 120    | 050-8-5          |
| 0600 | 0-26 S | 177-33 W | " "       | 20  | 1007 | 84    | 79     | 84      | 5      | 3       | 100-6-5 | 84       | 18     | 120    | 050-8-5          |
| 0700 | 0-19 S | 177-27 W | " "       | 20  | 1007 | 84    | 79     | 84      | 6      | 4       | 100-6-5 | 84       | 19     | 120    | 050-8-5          |
| 0800 | 0-14 S | 177-20 W | CLOUDY    | 20  | 1008 | 84    | 79     | 84      | 9      | 8       | 100-6-5 | 84       | 18     | 120    | 057-8-5          |
| 0900 | 0-08 S | 177-15 W | "         | 20  | 1008 | 86    | 78     | 77      | 8      | 3       | 110-5-6 | 84       | 20     | 110    | 057 6.0          |
| 1000 | 0-04 S | 177-10 W | "         | 20  | 1008 | 86    | 78     | 77      | 8      | 3       | 110-5-6 | 84       | 20     | 110    | 057 6.0          |
| 1100 | 0-00   | 177-07 W | "         | 20  | 1008 | 86    | 78     | 77      | 8      | 3       | 110-5-6 | 84       | 20     | 110    | 057 6.0          |
| 1200 | 0-03 S | 177-01 W | "         | 20  | 1008 | 86    | 78     | 77      | 8      | 3       | 110-5-6 | 84       | 20     | 110    | 090 6.0          |
| 1300 | 0-03 S | 176-56 W | Ptly Cldy | 20  | 1007 | 86    | 78     | 77      | 4      | 2       | 110-5-6 | 84       | 21     | 110    | 090 5            |
| 1400 | 0-03 S | 177-02 W | " "       | 20  | 1007 | 86    | 78     | 77      | 2      | 1       | 110-5-7 | 84       | 21     | 110    | 090 5            |
| 1500 | 0-03 S | 176-59 W | " "       | 20  | 1006 | 86    | 78     | 77      | 2      | 1       | 110-5-8 | 84       | 21     | 110    | 085 5            |
| 1600 | 0-02 S | 176-56 W | " "       | 20  | 1006 | 86    | 78     | 77      | 4      | 2       | 110-5-8 | 84       | 21     | 110    | 085 5            |
| 1700 | 0-01 S | 176-54 W | " "       | 20  | 1006 | 86    | 78     | 77      | 4      | 2       | 100-6-7 | 84       | 22     | 100    | 085 5            |
| 1800 | 0-01 N | 176-48 W | " "       | 20  | 1006 | 86    | 78     | 77      | 4      | 2       | 100-5-7 | 84       | 21     | 100    | 085 6-5          |
| 1900 | 0-02 N | 176-41 W | " "       | 20  | 1006 | 86    | 78     | 77      | 4      | 2       | 100-5-7 | 84       | 20     | 100    | 085 6-5          |
| 2000 | 0-03 N | 176-34 W | " "       | 20  | 1007 | 86    | 78     | 77      | 5      | 3       | 100-5-7 | 84       | 22     | 105    | 085 7-0          |
| 2100 | 0-03 N | 176-30 W | Clear     | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 100-5-6 | 84       | 12     | 100    | 090 5.5          |
| 2200 | 0-03 N | 176-25 W | "         | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 100-5-6 | 84       | 12     | 100    | 090 5.5          |
| 2300 | 0-03 N | 176-18 W | "         | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 100-5-6 | 84       | 12     | 100    | 090 5.5          |
| 2400 | 0-03 N | 176-11 W | "         | 20  | 1008 | 85    | 77     | 80      | 1      | 1       | 100-5-6 | 84       | 12     | 100    | 090 7.0          |

REMARKS:

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12-5-63

DATE 11 Feb. 1966

| TIME | LAT    | LONG     | WIND        | VIS | SLP  | DRY B | DEW PT | HUMID % | TOT SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|----------|-------------|-----|------|-------|--------|---------|---------|---------|---------|----------|--------|--------|------------------|
| 0100 | 0-02 N | 176-04 W | Clody w/sgu | 15  | 1007 | 84    | 76     | 76      | 10      | 7       | 100-5-6 | 84       | 15     | 100    | 090 7            |
| 0200 | 0-05 S | 176-11 W | Clody       | 20  | 1007 | 84    | 77     | 84      | 8       | 6       | 100-5-5 | 84       | 10     | 100    | 220 10           |
| 0300 | 0-12 S | 176-19 W | "           | 20  | 1007 | 82    | 77     | 84      | 7       | 5       | 100-5-5 | 84       | 12     | 100    | 220 10           |
| 0400 | 0-20 S | 176-27 W | "           | 20  | 1007 | 82    | 77     | 84      | 7       | 5       | 100-5-5 | 82       | 10     | 100    | 220 10           |
| 0500 | 0-26 S | 176-42 W | "           | 20  | 1006 | 84    | 76     | 76      | 8       | 6       | 100-5-4 | 82       | 12     | 100    | 220 - 11         |
| 0600 | 0-32 S | 176-52 W | "           | 20  | 1007 | 84    | 76     | 76      | 9       | 7       | 100-6-4 | 82       | 12     | 100    | 220 - 11         |
| 0700 | 0-39 S | 177-02 W | "           | 20  | 1007 | 84    | 76     | 76      | 8       | 5       | 100-6-4 | 82       | 15     | 105    | 220 - 11         |
| 0800 | 0-50 S | 177-04 W | "           | 20  | 1008 | 84    | 76     | 76      | 8       | 5       | 100-6-4 | 84       | 15     | 105    | 188 - 11         |
| 0900 | 0-58 S | 177-09 W | "           | 20  | 1008 | 85    | 78     | 80      | 7       | 3       | 100-6-4 | 84       | 12     | 100    | 130 8.5          |
| 1000 | 1-04 S | 177-03 W | "           | 20  | 1008 | 85    | 78     | 80      | 7       | 3       | 100-6-4 | 84       | 12     | 100    | 130 8.5          |
| 1100 | 1-10 S | 176-57 W | "           | 20  | 1008 | 85    | 78     | 80      | 7       | 3       | 100-6-4 | 84       | 12     | 100    | 130 8.5          |
| 1200 | 1-15 S | 176-51 W | "           | 20  | 1008 | 85    | 78     | 80      | 7       | 3       | 100-6-4 | 84       | 12     | 100    | 130 8.5          |
| 1300 | 1-20 S | 176-47 W | "           | 20  | 1008 | 85    | 75     | 73      | 8       | 5       | 100-6-4 | 84       | 12     | 100    | 130 8.5          |
| 1400 | 1-29 S | 176-41 W | "           | 20  | 1007 | 85    | 75     | 73      | 8       | 6       | 100-6-4 | 84       | 13     | 100    | 110 8.5          |
| 1500 | 1-24 S | 176-33 W | "           | 20  | 1007 | 87    | 78     | 74      | 8       | 5       | 100-6-4 | 84       | 13     | 090    | 055 8.5          |
| 1600 | 1-19 S | 176-28 W | "           | 20  | 1007 | 87    | 78     | 74      | 8       | 3       | 090-6-4 | 84       | 12     | 090    | 055 8            |
| 1700 | 1-12 S | 176-21 W | "           | 20  | 1007 | 86    | 76     | 76      | 8       | 6       | 080-6-5 | 83       | 12     | 070    | 055 - 8          |
| 1800 | 1-06 S | 176-15 W | "           | 20  | 1007 | 86    | 76     | 76      | 8       | 6       | 080-6-5 | 83       | 10     | 060    | 055 - 8          |
| 1900 | 1-00 S | 176-09 W | "           | 20  | 1007 | 86    | 76     | 76      | 8       | 6       | 080-6-5 | 83       | 10     | 060    | 055 - 8          |
| 2000 | 0-55 S | 176-03 W | "           | 20  | 1008 | 86    | 76     | 76      | 8       | 6       | 080-6-5 | 84       | 10     | 060    | 055 - 8          |
| 2100 | 1-01 S | 175-55 W | Few Cls     | 20  | 1008 | 84    | 74     | 73      | 1       | 1       | 070-6-4 | 84       | 10     | 070    | 130 - 8.5        |
| 2200 | 1-07 S | 175-49 W | "           | 20  | 1008 | 84    | 74     | 73      | 1       | 1       | 070-5-4 | 84       | 10     | 070    | 130 - 8.5        |
| 2300 | 1-14 S | 175-42 W | "           | 20  | 1008 | 84    | 74     | 73      | 1       | 1       | 070-5-4 | 84       | 10     | 070    | 130 - 8.5        |
| 2400 | 1-20 S | 175-35 W | "           | 20  | 1008 | 84    | 74     | 73      | 1       | 1       | 070-5-4 | 84       | 10     | 070    | 130 - 8.5        |

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SI-MNH-955  
12-5-63

DATE

February 1966

| TIME | LAT    | LONG     | PRES WEA    | VIS | SLP  | DRY B | DEW PT | HUMID/O | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|--------|----------|-------------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 1-26 S | 175-29 W | Partly Clfy | 20  | 1008 | 84    | 76     | 76      | 1      | 0       | 070-5-3 | 84       | 9      | 050    | 130 8.5          |
| 0200 | 1-33 S | 175-22 W | " "         | 20  | 1008 | 84    | 76     | 76      | 1      | 0       | 070-5-3 | 84       | 11     | 045    | 130 8.5          |
| 0300 | 1-39 S | 175-16 W | " "         | 20  | 1008 | 84    | 76     | 76      | 3      | 1       | 070-5-3 | 84       | 10     | 045    | 130 8.5          |
| 0400 | 1-45 S | 175-09 W | " "         | 20  | 1008 | 84    | 76     | 76      | 5      | 2       | 070-5-3 | 84       | 12     | 050    | 130 8.5          |
| 0500 | 1-57 S | 175-01 W | " "         | 20  | 1008 | 85    | 77     | 76      | 4      | 2       | 050-5-4 | 84       | 11     | 040    | 130 9            |
| 0600 | 2-04 S | 175-03 W | " "         | 20  | 1008 | 85    | 77     | 76      | 4      | 2       | 040-5-4 | 82       | 11     | 040    | 130 9            |
| 0700 | 2-11 S | 174-56 W | " "         | 20  | 1008 | 85    | 77     | 76      | 4      | 2       | 040-6-4 | 82       | 11     | 040    | 130 9            |
| 0800 | 2-17 S | 174-50 W | " "         | 20  | 1008 | 85    | 77     | 76      | 4      | 2       | 040-6-4 | 83       | 11     | 040    | 125 9            |
| 0900 | 2-22 S | 174-43 W | Partly Clfy | 20  | 1009 | 85    | 77     | 76      | 6      | 2       | 020-5-4 | 83       | 12     | 020    | 125 9.0          |
| 1000 | 2-28 S | 174-36 W | " "         | 20  | 1009 | 85    | 77     | 76      | 6      | 2       | 020-5-4 | 83       | 12     | 020    | 125 9.0          |
| 1100 | 2-34 S | 174-29 W | " "         | 20  | 1009 | 85    | 77     | 76      | 6      | 2       | 020-5-4 | 83       | 12     | 020    | 125 9.0          |
| 1200 | 2-40 S | 174-22 W | " "         | 20  | 1009 | 85    | 77     | 76      | 6      | 2       | 020-5-4 | 83       | 12     | 020    | 125 9.0          |
| 1300 | 2-45 S | 174-16 W | " "         | 20  | 1007 | 85    | 77     | 76      | 6      | 2       | 020-5-4 | 83       | 12     | 005    | 125 9.0          |
| 1400 | 2-51 S | 174-08 W | " "         | 20  | 1007 | 85    | 77     | 76      | 6      | 3       | 020-5-4 | 83       | 9      | 010    | 125 9.0          |
| 1500 | 2-54 S | 174-02 W | " "         | 20  | 1007 | 84    | 74     | 73      | 6      | 3       | 020-5-4 | 83       | 10     | 015    | 125 9.0          |
| 1600 | 3-01 S | 173-52 W | " "         | 20  | 1007 | 84    | 74     | 73      | 6      | 3       | 020-5-4 | 83       | 12     | 020    | 130 9.0          |
| 1700 | 3-08 S | 173-48 W | " "         | 20  | 1007 | 84    | 74     | 73      | 7      | 4       | 020-6-4 | 83       | 10     | 030    | 130 - 9          |
| 1800 | 3-14 S | 173-41 W | " "         | 20  | 1008 | 85    | 75     | 73      | 8      | 4       | 020-6-4 | 83       | 10     | 030    | 130 - 9          |
| 1900 | 3-20 S | 173-34 W | " "         | 20  | 1008 | 85    | 75     | 73      | 8      | 4       | 020-6-4 | 83       | 8      | 030    | 130 - 9          |
| 2000 | 3-27 S | 173-28 W | " "         | 20  | 1009 | 85    | 75     | 73      | 8      | 4       | 020-6-4 | 83       | 8      | 030    | 130 - 9          |
| 2100 | 3-32 S | 173-20 W | " "         | 20  | 1009 | 84    | 76     | 76      | 5      | 2       | 030-5-3 | 83       | 10     | 030    | 130 - 9          |
| 2200 | 3-38 S | 173-12 W | " "         | 20  | 1009 | 84    | 76     | 76      | 5      | 2       | 030-5-3 | 83       | 10     | 030    | 130 - 9          |
| 2300 | 3-44 S | 173-06 W | " "         | 20  | 1009 | 84    | 76     | 76      | 5      | 2       | 030-5-3 | 83       | 10     | 030    | 130 9            |
| 2400 | 3-50 S | 173-00 W | " "         | 20  | 1009 | 84    | 76     | 76      | 5      | 2       | 030-5-3 | 83       | 10     | 030    | 130 9            |

REMARKS:

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WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 13 Feb. 1966

| 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 | 3-56.5 | 172-53 W  | O'cast    | 20  | 1007 | 83    | 73     | 73    | 10     | 5       | CAF     | 83       | 10       | 030    | 130 9            |
| 0200 | 4-02.5 | 172-45 W  | "         | 20  | 1007 | 83    | 73     | 73    | 10     | 7       | "       | 83       | 11       | 020    | 130 9            |
| 0300 | 4-07.5 | 172-39 W  | Ptly Cldy | 20  | 1007 | 84    | 73     | 69    | 7      | 5       | "       | 83       | 5        | 040    | 130 9            |
| 0400 | 4-12.5 | 172-32 W  | " "       | 20  | 1007 | 84    | 73     | 69    | 7      | 5       | "       | 83       | Variable | Airs   | 130 9            |
| 0500 | 4-19.8 | 172-25 W  | " "       | 20  | 1007 | 85    | 74     | 69    | 8      | 6       | "       | 83       | AIRS     | "      | 130 9            |
| 0600 | 4-25.8 | 172-18 W  | Cloudy    | 20  | 1006 | 85    | 74     | 69    | 8      | 6       | "       | 83       | "        | "      | 130 9            |
| 0700 | 4-28.8 | 172-13 W  | "         | 20  | 1006 | 85    | 74     | 69    | 5      | 3       | "       | 83       | "        | "      | VAR              |
| 0800 | 4-28.8 | 172-11 W  | "         | 20  | 1007 | 85    | 74     | 69    | 4      | 2       | "       | 83       | "        | "      | VAR              |
| 0900 |        |           |           |     |      |       |        |       |        |         |         |          |          |        |                  |
| 1000 |        |           |           |     |      |       |        |       |        |         |         |          |          |        |                  |
| 1100 |        |           |           |     |      |       |        |       |        |         |         |          |          |        |                  |
| 1200 |        |           |           |     |      |       |        |       |        |         |         |          |          |        |                  |
| 1300 |        |           |           |     |      |       |        |       |        |         |         |          |          |        |                  |
| 1400 | 4-25.5 | 172-03 W  | Ptly Cldy | 20  | 1007 | 86    | 75     | 70    | 2      | 0       | 045-5-3 | 83       | AIRS     |        | 063 9            |
| 1500 | 4-21.5 | 171-56 W  | " "       | 20  | 1007 | 86    | 75     | 70    | 2      | 0       | 045-5-3 | 83       | AIRS     |        | 063 9            |
| 1600 | 4-17.5 | 171-48 W  | " "       | 20  | 1006 | 86    | 75     | 70    | 2      | 0       | 045-5-3 | 83       | AIRS     |        | 063 9            |
| 1700 | 4-07.8 | 171-43 W  | " "       | 20  | 1006 | 86    | 75     | 70    | 4      | 2       | 045-5-4 | 85       | AIRS     |        | 000 10-5         |
| 1800 | 3-56.8 | 171-42 SW | " "       | 20  | 1006 | 86    | 75     | 70    | 4      | 2       | 045-5-4 | 85       | AIRS     |        | 000 10-5         |
| 1900 | 3-45.8 | 171-42 SW | " "       | 20  | 1006 | 86    | 74     | 69    | 4      | 2       | 045-5-4 | 85       | AIRS     |        | 000 10-5         |
| 2000 | 3-35.8 | 171-40 SW | " "       | 20  | 1007 | 86    | 74     | 69    | 4      | 2       | 045-5-4 | 86       | AIRS     |        | 000 10-5         |
| 2100 | 3-25.5 | 171-44 W  | Clear     | 20  | 1007 | 86    | 74     | 69    | 1      | 0       | 045-5-4 | 85       | "        |        | 000 10           |
| 2200 | 3-20.5 | 171-45 W  | "         | 20  | 1007 | 86    | 74     | 69    | 1      | 0       | 045-5-3 | 85       | "        |        | 057 10           |
| 2300 | 3-10.5 | 171-46 W  | "         | 20  | 1007 | 86    | 74     | 69    | 1      | 0       | 045-5-3 | 85       | "        |        | 357 10           |
| 2400 | 2-58.5 | 171-47 W  | "         | 20  | 1007 | 86    | 74     | 69    | 1      | 0       | 045-5-3 | 85       | "        |        | 358 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

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Rev. 4-9-64

SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 14 FEB 1966

| 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 | 2-49 S | 171-44 W | PART CLDY | 20  | 1007 | 83    | 76     | 80    | 2      | 1       | CONF  | 86       | AIRS   |        | DRIFTING         |
| 0200 | 2-49 S | 171-44 W | " "       | 20  | 1007 | 83    | 76     | 80    | 2      | 1       | CONF  | 86       | AIRS   |        | "                |
| 0300 | 2-44 S | 171-44 W | " "       | 20  | 1006 | 83    | 76     | 80    | 2      | 1       | "     | 85       | AIRS   |        | "                |
| 0400 | 2-44 S | 171-44 W | " "       | 20  | 1006 | 83    | 76     | 80    | 2      | 1       | "     | 85       | AIRS   |        | "                |
| 0500 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 0600 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 0700 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 0800 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 0900 | 2-53 S | 171-40 W | FEW CLDS  | 20  | 1009 | 86    | 78     | 77    | 3      | 2       | CONF  | 85       | 100    | 5      | 113 9.0          |
| 1000 | 2-57 S | 171-31 W | "         | 20  | 1009 | 86    | 78     | 77    | 3      | 2       | "     | 85       | 100    | 5      | 113 9.0          |
| 1100 | 3-02 S | 171-23 W | "         | 20  | 1009 | 86    | 78     | 77    | 3      | 2       | "     | 85       | 100    | 5      | 113 9.0          |
| 1200 | 3-04 S | 171-15 W | "         | 20  | 1009 | 86    | 78     | 77    | 3      | 2       | "     | 85       | 100    | 5      | 113 9.0          |
| 1300 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1400 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1500 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1600 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1700 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1800 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1900 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2000 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2100 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2200 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2300 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2400 |        |          |           |     |      |       |        |       |        |         |       |          |        |        |                  |

CANTON ISLAND

ENDERBURY ISLAND

REMARKS:

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

0304 21-15

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 16 FEB 1966

| 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 | 3-12 S | 171-06W   | FEW CLDS | 20  | 1009 | 84    | 74     | 73    | 2      | 1       | 030-6-4 | 84       | AIRS   |        | 178 - 10 KTS     |
| 0800 | 3-23 S | 171-07W   | " "      | 20  | 1009 | 84    | 74     | 73    | 3      | 2       | 030-6-3 | 84       | AIRS   |        | 175 - 11 KTS     |
| 0900 | 3-34 S | 171-08W   | " "      | 20  | 1010 | 87    | 73     | 63    | 3      | 1       | 000-6-3 | 84       | AIRS   |        | 175 10.5         |
| 1000 | 3-43 S | 171-09W   | " "      | 20  | 1010 | 87    | 73     | 63    | 3      | 1       | 000-6-3 | 84       | AIRS   |        | 175 10.5         |
| 1100 | 3-53 S | 171-09W   | " "      | 20  | 1010 | 87    | 73     | 63    | 3      | 1       | 000-6-3 | 84       | AIRS   |        | 175 10.5         |
| 1200 | 4-04 S | 171-09W   | " "      | 20  | 1010 | 87    | 73     | 63    | 3      | 1       | 000-6-3 | 84       | AIRS   |        | 175 10.5         |
| 1300 | 4-18 S | 171-11W   | " "      | 20  | 1009 | 87    | 73     | 63    | 1      | 0       | 000-6-3 | 84       | AIRS   |        | 175 11           |
| 1400 | 4-29 S | 171-12W   | " "      | 20  | 1007 | 87    | 73     | 63    | 1      | 0       | 000-6-3 | 84       | AIRS   |        | 178 11           |
| 1500 | 4-40 S | 171-11W   | " "      | 20  | 1007 | 87    | 73     | 63    | 1      | 0       | Com F.  | 84       | AIRS   |        | 170 11           |
| 1600 | 4-50 S | 171-11W   | " "      | 20  | 1007 | 87    | 73     | 63    | 2      | 0       | Com F.  | 84       | AIRS   |        | 178 11           |
| 1700 | 5-02 S | 171-10W   | " "      | 20  | 1007 | 86    | 74     | 67    | 2      | 1       | "       | 84       | AIRS   |        | 170 - 11         |
| 1800 | 5-13 S | 171-09W   | " "      | 20  | 1007 | 86    | 74     | 67    | 2      | 1       | "       | 84       | 05     | 030    | 170 - 11         |
| 1900 | 5-24 S | 171-08W   | " "      | 20  | 1007 | 86    | 74     | 67    | 2      | 1       | "       | 84       | 05     | 035    | 170 - 11         |
| 2000 | 5-35 S | 171-07.5W | " "      | 20  | 1008 | 86    | 74     | 67    | 2      | 1       | "       | 85       | 05     | 030    | 170 - 11         |
| 2100 | 5-46 S | 171-07W   | " "      | 20  | 1009 | 86    | 74     | 67    | 1      | 1       | "       | 85       | AIRS   |        | 170 - 11.0       |
| 2200 | 5-57 S | 171-07W   | " "      | 20  | 1009 | 86    | 74     | 67    | 1      | 1       | "       | 85       | AIRS   |        | 170 - 11.0       |
| 2300 | 6-08 S | 171-07W   | " "      | 20  | 1009 | 86    | 74     | 67    | 1      | 1       | "       | 85       | AIRS   |        | 170 - 11.0       |
| 2400 | 6-19 S | 171-07W   | " "      | 20  | 1009 | 86    | 74     | 67    | 1      | 1       | "       | 85       | AIRS   |        | 170 - 11.0       |

REMARKS:

ORAN

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

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Rev. 4-9-64

SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 17 Feb 1966

| 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 | 6-30 S  | 171-08 W | Cloudy       | 20  | 1008 | 85    | 74     | 69    | 9      | 7       | Conf    | 85       | 9               | 040    | 170 11           |
| 0200 | 6-41 S  | 171-08 W | "            | 20  | 1007 | 85    | 75     | 73    | 6      | 4       | "       | 85       | 9               | 040    | 170 11           |
| 0300 | 6-52 S  | 171-07 W | " w/ squalls | 20  | 1005 | 82    | 75     | 80    | 9      | 8       | "       | 85       | 7               | 040    | 170 11           |
| 0400 | 7-03 S  | 171-07 W | " w/ squalls | 20  | 1005 | 82    | 75     | 80    | 8      | 6       | "       | 85       | AIRS            |        | 170 11           |
| 0500 | 7-15 S  | 170-57 W | CLOUDY       | 20  | 1005 | 84    | 77     | 80    | 7      | 6       | "       | 86       | <del>5030</del> | 030    | 170-11           |
| 0600 | 7-26 S  | 170-55 W | PART CLOUDY  | 20  | 1006 | 84    | 77     | 80    | 5      | 4       | "       | 86       | 5               | 030    | 170-11           |
| 0700 | 7-37 S  | 170-56 W | " "          | 20  | 1006 | 84    | 77     | 80    | 5      | 4       | "       | 86       | 5               | 030    | 180-11           |
| 0800 | 7-48 S  | 170-56 W | " "          | 20  | 1007 | 84    | 77     | 80    | 4      | 3       | "       | 84       | 5               | 000    | 180-11           |
| 0900 | 7-58 S  | 170-56 W | Few Cldy     | 20  | 1008 | 82    | 77     | 71    | 4      | 3       | "       | 84       | 5               | 340    | 180-10.5         |
| 1000 | 8-09 S  | 170-57 W | "            | 20  | 1008 | 82    | 77     | 71    | 4      | 3       | "       | 84       | 5               | 340    | 180-10.5         |
| 1100 | 8-19 S  | 170-57 W | "            | 20  | 1008 | 82    | 77     | 71    | 4      | 3       | "       | 84       | 5               | 340    | 180-10.5         |
| 1200 | 8-29 S  | 170-58 W | "            | 20  | 1008 | 82    | 77     | 77    | 4      | 3       | "       | 84       | 5               | 340    | 180-10.5         |
| 1300 | 8-38 S  | 170-55 W | "            | 20  | 1006 | 86    | 76     | 73    | 3      | 1       | "       | 84       | 7               | 310    | 193 10.5         |
| 1400 | 8-50 S  | 170-55 W | Partly Cldy  | 20  | 1005 | 86    | 78     | 77    | 7      | 5       | "       | 84       | 5               | 200    | 193 10.5         |
| 1500 | 9-00 S  | 170-56 W | "            | 20  | 1004 | 86    | 78     | 77    | 5      | 2       | "       | 84       | 9               | 270    | 203 10.5         |
| 1600 | 9-09 S  | 171-00 W | " "          | 20  | 1004 | 86    | 78     | 77    | 5      | 2       | "       | 84       | 7               | 270    | 203 10.5         |
| 1700 | 9-18 S  | 171-03 W | " "          | 20  | 1005 | 85    | 78     | 77    | 6      | 5       | "       | 84       | 10              | 260    | 203-10.5         |
| 1800 | 9-26 S  | 171-03 W | " "          | 20  | 1005 | 84    | 76     | 76    | 7      | 6       | "       | 84       | 11              | 190    | 181-8.5          |
| 1900 | 9-35 S  | 171-03 W | " "          | 20  | 1005 | 84    | 76     | 76    | 7      | 6       | 160-6-4 | 84       | 11              | 180    | 181-8.5          |
| 2000 | 9-45 S  | 171-04 W | " "          | 20  | 1006 | 84    | 76     | 76    | 7      | 6       | 190-6-4 | 85       | AIRS            |        | 181-9.0          |
| 2100 | 9-54 S  | 171-04 W | Few Cldy     | 20  | 1007 | 84    | 76     | 76    | 1      | 1       | 180-6-3 | 85       | AIRS            |        | 181 9.0          |
| 2200 | 10-03 S | 171-04 W | "            | 20  | 1007 | 84    | 76     | 76    | 1      | 1       | 180-6-3 | 85       | "               | "      | 181 9.0          |
| 2300 | 10-12 S | 171-04 W | "            | 20  | 1007 | 84    | 76     | 76    | 1      | 1       | 180-6-3 | 85       | "               | "      | 181 9.0          |
| 2400 | 10-21 S | 171-04 W | "            | 20  | 1007 | 84    | 76     | 76    | 1      | 1       | 180-6-3 | 85       | "               | "      | 181 9.0          |

REMARKS:

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

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Rev. 4-9-64

SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 18 Feb. 1966

| 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 | 10-30 S | 171-05 W | Few Clds       | 20  | 1006   | 84    | 76     | 76    | 1      | 0       | Calm    | 85       | Calm   |        | 180 9            |
| 0200 | 10-38 S | 171-08 W | " "            | 20  | 1006   | 84    | 76     | 76    | 1      | 0       | "       | 85       | "      |        | 180 9            |
| 0300 | 10-47 S | 171-08 W | " "            | 20  | 1005   | 83    | 76     | 80    | 1      | 0       | "       | 85       | "      |        | 180 9            |
| 0400 | 10-53 S | 171-01 W | " "            | 20  | 1004   | 83    | 76     | 80    | 1      | 0       | "       | 85       | "      |        | 213 6            |
| 0500 | 10-54 S | 171-04 W | " "            | 20  | 1004   | 83    | 76     | 80    | 1      | 0       | "       | 85       | "      |        | VARIOUS          |
| 0600 | 11-03 S | 171-06 W | " "            | 20  | 1003   | 84    | 76     | 76    | 1      | 0       | "       | 85       | "      |        | VARIOUS          |
| 0700 |         |          |                |     |        |       |        |       |        |         |         |          |        |        |                  |
| 0800 |         | AT       | SWAINS         |     | ISLAND |       |        |       |        |         |         |          |        |        |                  |
| 0900 |         |          |                |     |        |       |        |       |        |         |         |          |        |        |                  |
| 1000 |         |          |                |     |        |       |        |       |        |         |         |          |        |        |                  |
| 1100 |         |          |                |     |        |       |        |       |        |         |         |          |        |        |                  |
| 1200 |         |          |                |     |        |       |        |       |        |         |         |          |        |        |                  |
| 1300 | 11-18 S | 171-03 W | Few Clds       | 20  | 1004   | 90    | 78     | 68    | 2      | 1       | Calm    | 85       | 8      | 340    | 169 10           |
| 1400 | 11-29 S | 171-01 W | " "            | 20  | 1004   | 88    | 77     | 71    | 1      | 0       | "       | 85       | Airs   |        | 169 10           |
| 1500 | 11-39 S | 170-59 W | ptly Cldy      | 20  | 1004   | 88    | 77     | 71    | 3      | 1       | "       | 85       | Calm   |        | 169 10           |
| 1600 | 11-49 S | 170-57 W | " "            | 20  | 1004   | 88    | 77     | 71    | 7      | 3       | "       | 85       | Airs   |        | 169 10           |
| 1700 | 11-52 S | 170-58 W | Cloudy         | 20  | 1003   | 79    | 73     | 83    | 8      | 7       | "       | 84       | 080    | 13     | 166-9.5          |
| 1800 | 11-58 S | 170-58 W | RAIN<br>O'CAST | 10  | 1004   | 78    | 72     | 83    | 10     | 9       | "       | 84       | 080    | 11     | 166-9.5          |
| 1900 | 12-06 S | 170-57 W | Cloudy         | 20  | 1004   | 74    | 72     | 83    | 9      | 8       | "       | 84       | 080    | 12     | 166-9.5          |
| 2000 | 12-14 S | 170-56 W | "              | 20  | 1004   | 78    | 72     | 83    | 9      | 8       | "       | 84       | 080    | 14     | 166-9.5          |
| 2100 | 12-23 S | 170-54 W | Clear          | 20  | 1005   | 80    | 74     | 83    | 1      | 1       | 120-6-5 | 84       | Airs   |        | 166-9.5          |
| 2200 | 12-33 S | 170-52 W | "              | 20  | 1006   | 80    | 74     | 83    | 1      | 1       | 120-6-5 | 84       | Airs   |        | 166 9.5          |
| 2300 | 12-42 S | 170-51 W | "              | 20  | 1006   | 82    | 77     | 84    | 0      | 0       | 120-6-5 | 84       | Airs   |        | 166 9.5          |
| 2400 | 12-51 S | 170-49 W | "              | 20  | 1006   | 82    | 77     | 84    | 0      | 0       | 120-6-5 | 84       | Airs   |        | 166 9.5          |

REMARKS:

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



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Rev. 4-9-64

SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 19 Feb. 1966

| 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 | 13-21.5 | 170-37W | Partly Cldy | 20  | 1006 | 82    | 78     | 84    | 3      | 1       | C245  | 84       | 7      | 120    | 167 10.5         |
| 0200 | 13-32.5 | 170-35W | Few Clds    | 20  | 1006 | 82    | 77     | 84    | 1      | 0       | "     | 84       | 6      | 120    | 167 10.5         |
| 0300 | 13-42.5 | 170-33W | " "         | 20  | 1006 | 82    | 77     | 84    | 1      | 0       | "     | 84       | 5      | 120    | 178 10.5         |
| 0400 | 13-53.5 | 170-33W | " "         | 20  | 1006 | 82    | 77     | 84    | 1      | 0       | "     | 84       | 4      | 120    | 178 10.5         |
| 0500 | 14-04.8 | 170 33W | " "         | 20  | 1006 | 82    | 77     | 84    | 2      | 1       | "     | 84       | 4      | 085    | 178-10-5         |
| 0600 | 14 14.8 | 170-33W | " "         | 20  | 1006 | 82    | 77     | 84    | 2      | 1       | "     | 84       | 5      | 090    | VARIOUS          |
| 0700 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 0800 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 0900 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1000 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1100 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1200 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1300 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1400 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1500 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1600 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1700 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1800 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 1900 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2000 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2100 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2200 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2300 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |
| 2400 |         |         |             |     |      |       |        |       |        |         |       |          |        |        |                  |

REMARKS:

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

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 23 Feb 1966

| 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 | 14 17   | 170 25   |                      |     |      |       |        |       |        |         |         |          |        |        |                  |
| 1300 | 14 16   | 170 32   |                      |     |      |       |        |       |        |         |         |          |        |        |                  |
| 1400 | 14-04 S | 170-37 W | 2 <sup>nd</sup> cast | 20  | 1009 | 84    | 77     | 80    | 18     | 9       | 100-5-4 | 82       | 15     | 120    | 350 10.5         |
| 1500 | 13-55 S | 170-39 W | "                    | 20  | 1009 | 84    | 77     | 80    | 8      | 6       | 100-5-4 | 82       | 17     | 120    | 350 10.5         |
| 1600 | 13-44 S | 170-41 W | "                    | 20  | 1009 | 84    | 77     | 80    | 8      | 6       | 100-5-4 | 82       | 13     | 120    | 350 10.5         |
| 1700 | 13-35 S | 170-44 W | Cloudy               | 20  | 1009 | 84    | 79     | 84    | 8      | 6       | 100-6-5 | 83       | 15     | 120    | 350 10.1         |
| 1800 | 13-25 S | 170-46 W | "                    | 20  | 1009 | 84    | 79     | 84    | 8      | 6       | 100-6-5 | 83       | 15     | 120    | 350 10.1         |
| 1900 | 13-15 S | 170-48 W | "                    | 20  | 1009 | 84    | 79     | 84    | 8      | 6       | 100-6-5 | 83       | 15     | 120    | 350 10.1         |
| 2000 | 13-05 S | 170-50 W | "                    | 20  | 1009 | 84    | 79     | 84    | 8      | 6       | 100-6-5 | 83       | 15     | 120    | 354 10.1         |
| 2100 | 12-55 S | 170-51 W | Partly cl            | 20  | 1010 | 84    | 79     | 84    | 5      | 4       | 100-6-4 | 83       | 10     | 100    | 354 10.          |
| 2200 | 12-45 S | 170-52 W | "                    | 20  | 1010 | 84    | 79     | 84    | 5      | 4       | 100-6-4 | 83       | 10     | 100    | 354 10.          |
| 2300 | 12-34 S | 170-54 W | "                    | 20  | 1010 | 84    | 79     | 84    | 5      | 4       | 100-6-4 | 83       | 10     | 110    | 354 10.          |
| 2400 | 12-24 S | 170-55 W | "                    | 20  | 1010 | 84    | 79     | 84    | 5      | 4       | 100-6-4 | 83       | 10     | 110    | 354 10.          |

*Pago Pago*  
~~170-37 W~~

REMARKS:

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WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

(9)  
0-5 = 36 41  
6-11 = 42 47  
12-17 = 45 52  
18-23 = 48 54  
24-29 = 51 57  
30-35 = 54 60

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
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DATE 24 Feb 1966

| 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 | 12-15 S          | 170-56 W          | ptly cldy            | 20            | 1010            | 84            | 77            | 80            | 3            | 1            | 100-6-4            | 83            | 14            | 115            | 354 10            |
| 0200 | 12-05 S          | 170-52 W          | " "                  | 20            | 1009            | 84            | 79            | 84            | 1            | 0            | 100-6-4            | 83            | 13            | 115            | 354 10            |
| 0300 | 11-55 S          | 170-58 W          | " "                  | 20            | 1009            | 84            | 79            | 84            | 1            | 0            | 100-6-4            | 83            | 10            | 120            | 354 10            |
| 0400 | 11-45 S          | 171-00 W          | " "                  | 20            | 1010            | 84            | 79            | 84            | 2            | 0            | 100-6-4            | 83            | 13            | 120            | 35-21 10          |
| 0500 | 11-37 S          | 171-09 W          | " "                  | 20            | 1010            | 84            | 79            | 84            | 7            | 6            | 100-6-4            | 83            | 12            | 120            | 354 -10           |
| 0600 | 11-27 S          | 171-11 W          | " "                  | 20            | 1010            | 83            | 78            | 84            | 8            | 7            | 100-6-4            | 83            | 12            | 120            | 354 -10           |
| 0700 | 11-17 S          | 171-09 W          | cloudy               | 20            | 1010            | 83            | 78            | 84            | 8            | 7            | 100-6-4            | 83            | 12            | 120            | 013 -10           |
| 0800 | 11-08 S          | 171-07 W          | " "                  | 20            | 1010            | 84            | 79            | 80            | 8            | 7            | 100-6-4            | 83            | 12            | 120            | 013 -10           |
| 0900 | <del>10-52</del> | <del>171-07</del> | <del>ptly cldy</del> | <del>20</del> | <del>1010</del> | <del>86</del> | <del>81</del> | <del>84</del> | <del>6</del> | <del>4</del> | <del>100-6-4</del> | <del>83</del> | <del>11</del> | <del>120</del> | <del>335 10</del> |
| 1000 |                  |                   |                      |               |                 |               |               |               |              |              |                    |               |               |                |                   |
| 1100 |                  |                   | SW 21ms IS           |               |                 |               |               |               |              |              |                    |               |               |                |                   |
| 1200 | 11-03            | 171-05            |                      |               |                 |               |               |               |              |              |                    |               |               |                |                   |
| 1300 | 10-52 S          | 171-08 W          | ptly cldy            | 20            | 1010            | 86            | 81            | 84            | 6            | 4            | 100-6-4            | 83            | 11            | 120            | 335 10            |
| 1400 | 10-48 S          | 171-14 W          | " "                  | 20            | 1010            | 87            | 79            | 77            | 6            | 4            | 100-6-4            | 83            | 11            | 120            | 335 10.5          |
| 1500 | 10-39 S          | 171-18 W          | " "                  | 20            | 1009            | 86            | 78            | 77            | 8            | 6            | 100-6-4            | 83            | 9             | 120            | 335 10            |
| 1600 | 10-30 S          | 171-22 W          | " "                  | 20            | 1009            | 86            | 78            | 77            | 8            | 6            | 100-6-4            | 83            | 9             | 120            | 305 10            |
| 1700 | 10-22 S          | 171-28 W          | " "                  | 20            | 1009            | 86            | 78            | 77            | 5            | 4            | 110-6-4            | 86            | 10            | 110            | 335 -10           |
| 1800 | 10-14 S          | 171-33 W          | " "                  | 20            | 1009            | 86            | 78            | 77            | 5            | 4            | 110-6-4            | 86            | 10            | 110            | 335 -10           |
| 1900 | 10-05 S          | 171-38 W          | " "                  | 20            | 1010            | 86            | 78            | 77            | 5            | 4            | 110-6-4            | 86            | 10            | 110            | 335 -10           |
| 2000 | 9-56 S           | 171-42 W          | " "                  | 20            | 1010            | 86            | 78            | 77            | 5            | 4            | 110-6-4            | 86            | 10            | 110            | 335 -10           |
| 2100 | 9-47 S           | 171-46 W          | Clear                | 20            | 1010            | 85            | 78            | 77            | 0            | 0            | 110-6-3            | 86            | 3             | 110            | 339 10            |
| 2200 | 9-37 S           | 171-50 W          | " "                  | 20            | 1010            | 85            | 78            | 77            | 0            | 0            | 110-6-3            | 86            | 3             | 110            | 339 10            |
| 2300 | 9-29 S           | 171-54 W          | " "                  | 20            | 1010            | 85            | 78            | 77            | 0            | 0            | 110-6-3            | 86            | 3             | 110            | 339 10            |
| 2400 | 9-18 S           | 171-57 W          | " "                  | 20            | 1010            | 85            | 78            | 77            | 0            | 0            | 110-6-3            | 86            | 3             | 110            | 339 10            |

REMARKS:

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

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Rev. 4-9-64

SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 25 Feb. 1966

| 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 | 9°10'S | 172-01W  | Pty cldy | 20  | 1011 | 84    | 77     | 80    | 1      | 0       | 110-6-3 | 85 <del>85</del> | Airs   |        | 339 10           |
| 0200 | 9-01 S | 172-05 W | " "      | 20  | 1010 | 84    | 77     | 80    | 1      | 0       | 110-6-3 | 85               | Airs   |        | 339 10           |
| 0300 | 8-52 S | 172-09 W | Few clds | 20  | 1010 | 84    | 77     | 80    | 1      | 0       | 110-6-3 | 85               | Airs   |        | 339 10           |
| 0400 | 8-43 S | 172-13 W | " "      | 20  | 1010 | 84    | 77     | 80    | 1      | 0       | 110-6-3 | 85               | Airs   |        | 339 10           |
| 0500 | 8-30 S | 172-17 W | " "      | 20  | 1010 | 84    | 77     | 80    | 2      | 0       | 060-6-3 | 85               | 7      | 110    | 339 10           |
| 0600 | 8-20 S | 172-21 W | " "      | 20  | 1010 | 85    | 77     | 77    | 2      | 0       | 060-6-3 | 85               | 7      | 110    | 339 10           |
| 0700 | 8-11 S | 172-25 W | " "      | 20  | 1011 | 85    | 77     | 77    | 2      | 0       | 060-6-3 | 85               | 7      | 110    | 336 10           |
| 0800 | 8-02 S | 172-29 W | " "      | 20  | 1011 | 85    | 77     | 77    | 2      | 1       | 060-6-3 | 85               | 7      | 110    | 336 10           |
| 0900 | 7-52 S | 172-32 W | " "      | 20  | 1012 | 89    | 78     | 68    | 4      | 4       | 090-6-3 | 85               | 090    | 8      | 336 10           |
| 1000 | 7-43 S | 172-37 W | " "      | 20  | 1012 | 89    | 78     | 68    | 4      | 4       | 090-6-3 | 85               | 090    | 8      | 336 10           |
| 1100 | 7-33 S | 172-42 W | " "      | 20  | 1012 | 89    | 78     | 68    | 4      | 4       | 090-6-3 | 85               | 090    | 8      | 336 10           |
| 1200 | 7-23 S | 172-46 W | " "      | 20  | 1012 | 89    | 76     | 68    | 4      | 4       | 090-6-3 | 85               | 090    | 8      | 336 10           |
| 1300 | 7-16 S | 172-50 W | " "      | 20  | 1011 | 90    | 76     | 65    | 4      | 3       | 090-6-3 | 85               | 090    | 5      | 336 10.5         |
| 1400 | 7-06 S | 172-56 W | cloudy   | 20  | 1010 | 90    | 76     | 65    | 8      | 7       | Cont.   | 85               | Airs   |        | 336 10.5         |
| 1500 | 6-54 S | 173-00 W | " "      | 20  | 1009 | 84    | 76     | 76    | 10     | 9       | Cont.   | 85               | 280    | 6      | 336 10.5         |
| 1600 | 6-45 S | 173-05 W | " "      | 20  | 1009 | 84    | 76     | 76    | 10     | 9       | Cont.   | 85               | 280    | 7      | 336 10.5         |
| 1700 | 6-35 S | 173-10 W | " "      | 20  | 1009 | 84    | 76     | 76    | 10     | 9       | "       | 85               | Airs   |        | 336 10.5         |
| 1800 | 6-25 S | 173-15 W | O'CAST   | 20  | 1009 | 83    | 78     | 84    | 10     | 9       | "       | 86               | Airs   |        | 336 10.5         |
| 1900 | 6-15 S | 173-19 W | " "      | 20  | 1010 | 84    | 76     | 76    | 10     | 9       | "       | 86               | Airs   |        | 336 10.5         |
| 2000 | 6-06 S | 173-24 W | " "      | 20  | 1010 | 84    | 76     | 76    | 10     | 9       | "       | 86               | Airs   |        | 336 10.5         |
| 2100 | 5-57 S | 173-27 W | " "      | 20  | 1011 | 84    | 76     | 76    | 10     | 9       | "       | 86               | "      | "      | 336 10.5         |
| 2200 | 5-47 S | 173-32 W | " "      | 20  | 1011 | 84    | 76     | 76    | 5      | 4       | "       | 86               | "      | "      | 336 10.5         |
| 2300 | 5-37 S | 173-36 W | Clear    | 20  | 1012 | 84    | 76     | 76    | 1      | 1       | "       | 86               | "      | "      | 336 10.5         |
| 2400 | 5-28 S | 173-40 W | Clear    | 20  | 1012 | 84    | 76     | 76    | 1      | 1       | "       | 86               | "      | "      | 336 10.5         |

REMARKS:

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

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 26 Feb 1966

| 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 | 5-18 S | 173-45 W | Partly Cldy | 20  | 1011 | 82    | 74     | 76    | 4      | 3       | Calm    | 85       | 0      | Calm   | 336 10.5         |
| 0200 | 5-09 S | 173-50 W | " "         | 20  | 1010 | 83    | 73     | 73    | 1      | 0       | Combs   | 85       | AIRS   |        | 336 10.5         |
| 0300 | 5-06 S | 173-54 W | " "         | 20  | 1010 | 83    | 73     | 73    | 7      | 6       | "       | 85       | AIRS   |        | 336 10.5         |
| 0400 | 4-51 S | 173-58 W | " "         | 20  | 1010 | 82    | 75     | 80    | 8      | 6       | "       | 85       | 0      | Calm   | 336 10.5         |
| 0500 | 4-42 S | 174-09 W | " "         | 20  | 1010 | 83    | 78     | 84    | 7      | 5       | CONF    | 85       | AIRS   |        | 336 - 10.5       |
| 0600 | 4-32 S | 174-14 W | CLOUDY      | 20  | 1011 | 83    | 78     | 84    | 8      | 6       | CONF    | 85       | AIRS   |        | 336 - 10.5       |
| 0700 | 4-23 S | 174-19 W | O'CAST      | 20  | 1011 | 84    | 77     | 80    | 10     | 9       | "       | 85       | 4      | 190    | 336 10.5         |
| 0800 | 4-13 S | 174-23 W | " "         | 20  | 1011 | 84    | 77     | 80    | 10     | 9       | "       | 85       | 4      | 190    | 336 10.5         |
| 0900 | 4-04 S | 174-28 W | " w/rain    | 10  | 1012 | 80    | 76     | 87    | 10     | 10      | 000-7-8 | 85       | 15     | 360    | 336 10.5         |
| 1000 | 3-55 S | 174-32 W | " "         | 10  | 1012 | 80    | 76     | 87    | 10     | 10      | 000-7-8 | 85       | 15     | 360    | 336 10.5         |
| 1100 | 3-45 S | 174-36 W | " "         | 12  | 1012 | 80    | 76     | 87    | 10     | 10      | 000-7-8 | 85       | 15     | 360    | 336 10.5         |
| 1200 | 3-35 S | 174-40 W | " "         | 12  | 1012 | 80    | 76     | 87    | 10     | 10      | 000-7-8 | 85       | 15     | 360    | 336 10.5         |
| 1300 | 3-27 S | 174-46 W | O'cast      | 15  | 1010 | 80    | 81     | 84    | 10     | 9       | 000-7-8 | 85       | 5      | 270    | 336 10.5         |
| 1400 | 3-20 S | 174-53 W | Partly Cldy | 20  | 1009 | 84    | 74     | 75    | 9      | 8       | 000-7-8 | 85       | 0      | Calm   | 336 10.5         |
| 1500 | 3-11 S | 174-59 W | " "         | 20  | 1008 | 84    | 74     | 73    | 5      | 3       | 000-7-8 | 85       | 5      | 280    | 336 10.5         |
| 1600 | 3-02 S | 175-04 W | " "         | 20  | 1008 | 84    | 74     | 73    | 5      | 3       | 000-7-8 | 85       | 5      | 230    | 336 10.5         |
| 1700 | 2-55 S | 175-13 W | FEW CLDS    | 20  | 1008 | 85    | 77     | 77    | 3      | 2       | 000-6-8 | 85       | 6      | 310    | 336 10.5         |
| 1800 | 2-46 S | 175-18 W | " "         | 20  | 1008 | 85    | 77     | 77    | 2      | 1       | 005-6-8 | 85       | 6      | 310    | 336 10.5         |
| 1900 | 2-37 S | 175-23 W | " "         | 20  | 1008 | 85    | 77     | 77    | 2      | 1       | 005-6-8 | 85       | 6      | 310    | 336 10.5         |
| 2000 | 2-27 S | 175-27 W | PART CLDY   | 20  | 1009 | 85    | 77     | 77    | 4      | 3       | 010-6-8 | 85       | AIRS   |        | 343 10.5         |
| 2100 | 2-18 S | 175-31 W | Clear       | 20  | 1010 | 84    | 74     | 73    | 0      | 0       | 020-6-6 | 85       | "      | "      | 343 10.5         |
| 2200 | 2-08 S | 175-35 W | "           | 20  | 1010 | 84    | 74     | 73    | 0      | 0       | 020-6-6 | 85       | "      | "      | 343 10.5         |
| 2300 | 1-58 S | 175-38 W | "           | 20  | 1010 | 84    | 74     | 73    | 0      | 0       | 020-6-6 | 85       | "      | "      | 343 10.5         |
| 2400 | 1-48 S | 175-41 W | "           | 20  | 1010 | 84    | 74     | 73    | 0      | 0       | 020-6-6 | 85       | "      | "      | 343 10.5         |

REMARKS:

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

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SMITHSONIAN INSTITUTION  
DIVISION OF BIRDS  
AT SEA CLIMATOLOGICAL DATA

DATE 27 Feb. 1966

| 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 | 1-39 S            | 175-46 W | Clear    | 20  | 1010 | 84    | 74     | 73    | 0      | 0       | Conf.   | 85       | 0      | Calm   | 343 10.5         |
| 0200 | 1-29 S            | 175-49 W | "        | 20  | 1009 | 84    | 74     | 73    | 0      | 0       | "       | 85       | 0      | Calm   | 343 10.5         |
| 0300 | 1-19 S            | 175-54 W | "        | 20  | 1009 | 83    | 73     | 73    | 0      | 0       | "       | 85       | 0      | Calm   | 343 10.5         |
| 0400 | 1-09 S            | 175-58 W | Few Cls  | 20  | 1009 | 83    | 73     | 73    | 1      | 0       | "       | 85       | 0      | Calm   | 343 10.5         |
| 0500 | 1-09 S            | 176-12 W | CLEAR    | 20  | 1009 | 83    | 73     | 73    | 0      | 0       | 000-6-3 | 84       | 0      | CALM   | 343 - 10         |
| 0600 | 0-00 S            | 176-17 W | "        | 20  | 1010 | 83    | 73     | 73    | 0      | 0       | 000-6-3 | 84       | 0      | CALM   | 343 - 10         |
| 0700 | 0-51 S            | 176-22 W | "        | 20  | 1010 | 83    | 73     | 73    | 0      | 0       | 000-6-3 | 84       | 0      | CALM   | 343 - 10         |
| 0800 | 0-41 S            | 176-25 W | Few Cls  | 20  | 1010 | 83    | 73     | 73    | 0      | 0       | 000-6-3 | 84       | 0      | CALM   | 000 - 10         |
| 0900 | 0-32 S            | 176-28 W | "        | 20  | 1011 | 86    | 74     | 67    | 1      | 1       | 030-6-4 | 84       | 5      | 000    | 008 - 10         |
| 1000 | 0-22 S            | 176-30 W | "        | 20  | 1011 | 86    | 74     | 67    | 1      | 1       | 030-6-4 | 84       | 5      | 000    | 008 10           |
| 1100 | 0-13 S            | 176-30 W | "        | 20  | 1011 | 86    | 74     | 67    | 1      | 1       | 030-6-4 | 84       | 5      | 000    | 008 10           |
| 1200 | 0-06 S            | 176-29 W | "        | 20  | 1011 | 86    | 74     | 67    | 1      | 1       | 030-6-4 | 84       | 5      | 000    | 008 10           |
| 1300 | 2-03 N            | 176-29 W | "        | 20  | 1009 | 85    | 73     | 67    | 1      | 0       | 000-9-4 | 84       | 5      | 330    | 012 10           |
| 1400 | BAKER IS.         |          |          |     |      |       |        |       |        |         |         |          |        |        |                  |
| 1500 | 2-14 N            | 176-30 W | "        | 20  | 1009 | 86    | 74     | 67    | 1      | 0       | 000-9-8 | 84       | 5      | 300    | 353 10           |
| 1600 | 2-24 N            | 176-32 W | "        | 20  | 1008 | 86    | 74     | 67    | 1      | 0       | 000-9-8 | 84       | 5      | 300    | 353 10           |
| 1700 | 0-33 N            | 176-36 W | "        | 20  | 1004 | 86    | 74     | 67    | 1      | 0       | 010-6-8 | 85       | AIRS   |        | 353-10           |
| 1800 | 0-45 N            | 176-38 W | "        | 20  | 1009 | 86    | 74     | 67    | 1      | 0       | 010-7-8 | 85       | AIRS   |        | 353-10           |
| 1900 |                   |          |          |     |      |       |        |       |        |         |         |          |        |        |                  |
| 2000 | AT HOWLAND ISLAND |          |          |     |      |       |        |       |        |         |         |          |        |        |                  |
| 2100 |                   |          |          |     |      |       |        |       |        |         |         |          |        |        |                  |
| 2200 | 00-47             | 176-38   |          |     |      |       |        |       |        |         |         |          |        |        |                  |
| 2300 | 0-54 N            | 176-28 W | Clear    | 20  | 1010 | 84    | 76     | 76    | 1      | 0       | 010-6-4 | 85       | AIRS - |        | 062 - 9          |
| 2400 | 1-01 N            | 176-29 W | "        | 20  | 1011 | 84    | 76     | 76    | 1      | 0       | 010-6-4 | 85       | AIRS - |        | 062 - 9          |

REMARKS:

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

DATE 28 Feb. 1966

| TIME | LAT   | LONG    | PRES WEA    | VIS | SLP  | DRY B | DEW PT | HUMID/O | TL SKY | OPA SKY | WAVES   | SEA TEMP | WIND S | WIND D | SHIP COURSE/SPD. |
|------|-------|---------|-------------|-----|------|-------|--------|---------|--------|---------|---------|----------|--------|--------|------------------|
| 0100 | 1-06N | 176-21W | Few Clds    | 20  | 1009 | 84    | 76     | 76      | 1      | 0       | 010-6-4 | 85       | Airs   |        | 062 9            |
| 0200 | 1-11N | 176-04W | " "         | 20  | 1008 | 84    | 76     | 76      | 3      | 1       | 010-6-4 | 85       | Airs   |        | 062 9            |
| 0300 | 1-15N | 175-57W | " "         | 20  | 1008 | 84    | 76     | 76      | 2      | 1       | 010-6-4 | 85       | Airs   |        | 062 9            |
| 0400 | 1-20N | 175-49W | " "         | 20  | 1007 | 84    | 76     | 76      | 2      | 0       | 010-6-4 | 85       | Airs   |        | 062 9            |
| 0500 | 1-24N | 175-40W | " "         | 20  | 1008 | 84    | 76     | 76      | 3      | 2       | 005-6-6 | 85       | Airs   |        | 062 - 10         |
| 0600 | 1-22N | 175-32W | " "         | 20  | 1008 | 83    | 78     | 84      | 4      | 3       | 005-6-6 | 85       | 7      | 270    | 136 - 10         |
| 0700 | 1-15N | 175-25W | CLOUDY      | 20  | 1009 | 83    | 78     | 84      | 6      | 5       | 005-6-6 | 85       | 7      | 270    | 136 - 10         |
| 0800 | 1-08N | 175-18W | " "         | 20  | 1009 | 83    | 78     | 84      | 6      | 5       | 005-6-6 | 85       | 7      | 270    | 136 - 10         |
| 0900 | 1-00N | 175-10W | Few Clds    | 20  | 1009 | 84    | 78     | 84      | 2      | 2       | 000-6-4 | 85       | Airs   |        | 136 10           |
| 1000 | 0-52N | 175-18W | " "         | 20  | 1009 | 84    | 78     | 84      | 2      | 2       | 000-6-4 | 85       | "      | "      | 235 11           |
| 1100 | 0-46N | 175-28W | " "         | 20  | 1009 | 84    | 78     | 84      | 2      | 2       | 000-6-4 | 85       | "      | "      | 235 11           |
| 1200 | 0-41N | 175-37W | " "         | 20  | 1009 | 84    | 78     | 84      | 2      | 2       | 000-6-4 | 85       | "      | "      | 235 11           |
| 1300 | 0-36N | 175-48W | " "         | 20  | 1008 | 85    | 77     | 77      | 3      | 1       | 000-6-4 | 85       | 5      | 840    | 343 11           |
| 1400 | 0-28N | 175-58W | Partly Cldy | 20  | 1007 | 85    | 77     | 77      | 7      | 5       | 000-6-4 | 85       | Calm   |        | 240 11           |
| 1500 | 0-25N | 176-05W | " "         | 20  | 1007 | 85    | 77     | 77      | 7      | 6       | 000-6-4 | 85       | Calm   |        | 240 11           |
| 1600 | 0-20N | 176-14W | " "         | 20  | 1007 | 85    | 77     | 77      | 7      | 6       | 000-6-4 | 85       | "      |        | 240 11           |
| 1700 | 0-14N | 176-25W | " "         | 20  | 1007 | 86    | 78     | 77      | 3      | 2       | CONF    | 85       | CALM   |        | VARIOUS          |
| 1800 | 0-12N | 176-28W | " "         | 20  | 1007 | 86    | 78     | 77      | 3      | 2       | CONF    | 85       | CALM   |        | HOVE TO          |
| 1900 | 0-14N | 176-29W | " "         | 20  | 1008 | 86    | 78     | 77      | 5      | 4       | 000-6-4 | 85       | CALM   |        | 347 - 10.5       |
| 2000 | 0-24N | 176-33W | " "         | 20  | 1009 | 86    | 78     | 77      | 6      | 5       | 000-6-4 | 85       | "      |        | 352 - 10.5       |
| 2100 |       |         |             |     |      |       |        |         |        |         |         |          |        |        |                  |
| 2200 |       |         |             |     |      |       |        |         |        |         |         |          |        |        |                  |
| 2300 | 0-49  | 176-39  | HOWLAND IS. |     |      |       |        |         |        |         |         |          |        |        |                  |
| 2400 | 0-49  | 176-38  |             |     |      |       |        |         |        |         |         |          |        |        |                  |

REMARKS:

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12-5-63