

June 4, 1963--0935--Clearing harbor mouth. Two Brown Boobies sitting on buoy.

0958--Sighted Wedge-tailed Shearwater.

1004--Wedge-tailed Shearwater off port.

1009--Common Noddy off port.

1018--Common Noddy and three Gray-backed Terns flying northeast.

1025--Two Sooty Terns flying northeast.

1029--Wedge-tailed Shearwater, Grinnell off Barber's Point.

1034--Common Noddy, starboard side.

1035--Two Common Noddies, way off starboard.

1040--Common Noddy, port side, flying west.

1043--Common Noddy, port side, flying southwest.

1045--Common Noddy, starboard, flying north.

1051--Wedge-tailed Shearwater, off port.

1058--Seven Sooty Terns off starboard.

1059--Seven Sooty Terns off starboard, flying northeast.

1100--Six Sooty Terns off starboard. It appears that the Sooty Terns are sort of in a continuous stream, flying toward the northeast.

1101--Small craft off starboard bow, with many birds behind it. There are approximately forty Common Noddies, and ten Wedge-tailed Shearwaters, which are feeding in the water.

1110--Approximately 300 birds feeding off the bow, very close. There appears to be a 3:1 ratio of Common Noddies to Wedge-tailed Shearwaters.

One Brown Booby sighted.

1130--Red-footed Booby off starboard.

1200--We went for lunch and didn't return until 1400.

1421--One Wedge-tailed Shearwater was sighted off port, going southeast.

1450--An LSP passed us going toward Pearl Harbor. We were interested, and

there was no Black-footed Albatross following it. At this point, no Black-footed Albatrosses are following us either.

1600--At this point, the sun is shining, as it has been all morning, and there are high scattered clouds. The wind is blowing from our rear, coming from the northeast. The seas are very calm, with many whitecaps, but not high seas at all. This has been a very nice, calm trip so far.

~~330--One Wedge-tailed Shearwater flying northeast.~~

~~345--Two Wedge-tailed Shearwaters flying northeast.~~

1610--Approximately twenty Red-footed Boobies 300 yards off starboard bow flying in a northeast direction. There are also about ten Wedge-tailed Shearwaters in this group, and one Frigatebird. These birds are skimming right over the top of the water and appear to be possibly feeding. The Frigatebird is flying high over the group.

<sup>6</sup>  
1622--One Red-footed Booby flying off the starboard side from ~~northeast~~ <sup>south</sup> to north  
~~northeast~~.

1635--Five Sooty Terns flying northeast off port rear, about 300 yards. Also one Wedge-tailed Shearwater.

<sup>6</sup>  
1644--One Wedge-tailed Shearwater off port side, flying west.

1645--One White-tailed Tropicbird which left off port side approximately 100 yards, got up again and crossed our rear, flying northeast. One Wedge-tailed Shearwater off port rear.

1650--Two porpises off starboard, very close. I can now count five of these. They are breajking the water close to the ship. They have a slightly curved dorsal fin, and are dark gray in color.

1700 to 1720--Supper. Upon returning, the porpises are still with us.

<sup>7</sup>  
1732--A large flock of birds was sighted off the port bow. This included approximately five Red-footed Boobies, 25 Wedge-tailed Shearwaters, and approximately one dozen Sooty Terns. These were headed in an easterly

direction and passed on our port side, about 500 yards off.

1725--Two Wedge-tailed Shearwaters passed across the bow from port to starboard.

1727--One Wedge-tailed Shearwater off starboard side. We have still seen no Albatrosses since leaving Pearl Harbor.

1729-- Another <sup>W</sup>edge-tailed Shearwater directly off the bow, very close.

1730--Kauai sighted off starboard bow. It is distant.

1738--One White-tailed Tropicbird off port side, flying east. One Wedge-tailed Shearwater crossed bow from port to starboard.

1808--One Wedge-tailed Shearwater off bow.

1812--One Wedge-tailed <sup>S</sup>hearwater far off starboard bow.

1829--Three Wedge-tailed Shearwaters, intermittently spaced across rear of ship.

One Wedge-tailed Shearwater off starboard, approximately 100 yards.

1838--Two ~~W~~edge-tailed Shearwaters, off starboard side, between ship and Kauai.

1845--Two Wedge-tailed Shearwater off port bow.

1855--One Wedge-tailed Shearwater off starboard bow.

~~1857~~<sup>§</sup>--At this point and ~~LSP~~ is passing us between us the island of Kauai. There are three or four Wedge-tailed Shearwaters between us. He is approximately 600 yards away. There are some other birds there...These all appear to be Wedge-tailed Shearwaters. There are approximately one dozen <sup>=5/p</sup> of them.

1905--Two Wedge-tailed Shearwaters way off bow, headed ~~f/t/~~ toward island.

The sun is beginning to set behind the clouds at this time. It is not dark, but it beginning to get dark. I expected the ship to encounter many birds wading off shore just before dark, but these have not yet appeared in such numbers.

1906--Four Wedge-tailed Shearwaters behind the ship, head toward island.

1910--The wind speed now is 20 knots, relative.



- 1911--Wedge -tailed Shearwater off starboard, between us and island.
- 1912--One Wedge-tailed Shearwater extremely close to ship on starboard side.
- 1915--Three Wedge-tailed Shearwaters off bow.
- 1920--Three Wedge-tailed Shearwaters off bow, going toward island.
- 1921--The sun has now set below the horizon.
- 1923--One Wedge-tailed Shearwater off starboard side, very close.
- 1926--Two Wedge-tailed Shearwaters off starboard bow, headed toward Kauai.  
Another Wedge-tailed Shearwater crossing bow.
- 1928--Flock of approximately 25 Wedge-tailed Shearwaters crossed directly in front of ship, headed toward the island of Kauai.
- 1932-- Wedge-tailed Shearwater headed east, off port.
- 1933--One Wedge-tailed Shearwater off starboard side, headed toward the island of Kauai.
- 1934--One Wedge-tailed Shearwater crossed bow, port to starboard.
- 1935--Since the ship has been passing Kauai, and it still has not passed it completely, we have been approximately four or five miles south of the island
- 1939--One Wedge-tailed Shearwater off Starboard side.
- 1940--One Wedge-tailed Shearwater crossed bow.
- 1941--One Wedge-tailed Shearwater crossed bow from port to starboard.
- 1942--Two Wedge-tailed Shearwaters crossed the bow.
- 1943--Wedge-tailed Shearwater off starboard Headed toward Kauai.
- 1944--Two Wedge-tailed Shearwaters crossed bow, headed for Kauai. One Wedge-tailed Shearwater, additional.
- 1945--One Wedge-tailed Shearwater crossed bow, headed toward Kauai. Another Wedge-tailed Shearwater crossed the bow shortly after it.
- 1946--One Wedge-tailed Shearwater crossed bow, headed toward land.
- 1947--One Wedge-tailed Shearwater crossed bow.

1950--It is now too dark to count the number of birds crossing our bow. We are now apparently in the lee of the island, as the winds have died down considerably and the white-caps, also. The trip today has been quite nice and calm, and the ship has rolled very little. There will be a full moon tonight, and it may be possible to spot birds which might happen to pass by. No Albatrosses have been spotted today.

June 5, 1963--0633--Two Sooty Terns sighted off center of ship.

0645--Three Sooty Terns off center of ship. We are now headed directly to Nihoa Island, which is approximately 20 miles to our front. The weather at this time is partly cloudy, high clouds on all sides. Directly over us, however, a large blue patch. There are still no Albatrosses with the ship this morning.

0650--Two Sooty Terns very close to the stern of the ship.

<sup>6</sup>0752--One Wedge-tailed Shearwater off starboard stern. Also one Fairy Tern.

<sup>6</sup>0754--Seven Noddies off starboard side. Four Sooty Terns flying high overhead.

0655--One Red-footed Booby flying east off our starboard.

0656--Five Common Noddies flying off starboard bow. Also one Christmas Island Shearwater.

0657--One Gray-backed Tern off starboard bow.

0659--One Red-footed Bobby flying east off port side.

0700-- One Fairy Tern off bow flying northeast.

0750--Three Christmas Island Shearwaters off bow, starboard side. Also several Wedge-tailed Shearwaters flying around. One Fairy Tern off bow in the distance.

0750--One Christmas Island Shearwater off bow, flying eastward.

0755--Sooty Tern, immediately off starboard,

0758--Frigatebird between us and the island, which is about four to five miles away.

0800--One Blue-gray Noddy passed ship on starboard side.

0803-- There are now thirteen Frigatebirds over the ship, all of which appear to be immatures.

0805--One Fairy Tern off bow.

0808--One Red-footed Booby coming toward ship off starboard side, very close.

Also one Wedge-tailed Shearwater off port, and one Christmas Island Shearwater

0810--Approximately 20 <sup>Bowler's Bulwer's</sup> Petrels off starboard side. All identifications of Christmas Island Shearwater and Bowler's Petrel are doubtful, and interchangeable. There appears to be a patch of sand at a distance. This is hard to tell.

0814-- Five Sooty Terns off port. Also, two Wedge-tailed Shearwaters off ~~port~~ starboard bow.

0815-- Three Wedge-tailed Shearwaters off starboard side. Also three off bow.

0816--Two Fairy Terns passed on starboard side.

0817--One Blue-gray Noddy off starboard. Flock of Shearwaters off starboard, approximately 25 to <sup>30</sup> 50. They are very close to the island, approximately half a mile, and the birds are actually too numerous to count. Due to the sea, we were unable to land on Nihoa all during today, although a rubber boat went in three times to check on the possibility of landing. During the day many birds flew around the ship, including Fairy Terns, which were quite numerous. These appeared to be nesting or roosting on the cliffs. These were on the northwest cliffs of the island, in the very center of the cliffs. Also many Blue-gray Noddies were around the ship, both species of Noddies. The Sooty Terns and Gray-backed Terns. We saw several flocks of Red-tailed Tropicbirds flying over, and also a very large flock of Frigatebirds, stayed around. Most of these were immatures. Only two females were seen throughout the day. Both Bulwer's Petrels and Christmas Island Petrels were quite numerous, especially just before dusk.

Approximately <sup>2:15</sup> ~~2:15~~ p.m. the chief boatswain's mate and several of the officer



spotted a Hawaiian Monk Seal close to the ship. They estimated it to be approximately six or seven feet long.

June 6, 1963--Another attempt was made to land on Nihoa Island at 5 a.m., but, due to rough seas again, we were unable to land. Approximately <sup>0815</sup> ~~8:15~~, the first

Black-footed Albatross was seen. This approached the ship from ~~the~~ northwest, but did not stay. During the morning we were able to collect three Blue-gray Noddies, four Bulwer's Petrels, and one Christmas Island Shearwater. The ship left Nihoa bound for French Frigate Shoals at 10:30 a.m. At <sup>1045</sup> ~~10:45~~ another Black-footed Albatross approached from the Northwest, and passed the ship on the starboard side, going astern. It did not follow the ship. Leaving Nihoa, many flocks, 50 and up, of Bulwer's Petrels were seen, flying over the water feeding. One Masked Booby was also seen.

1112--Four Petrels passed on the starboard side.

1113--One Blue-gray Noddy, flying toward Nihoa. Also one Christmas Island Shearwater, way off starboard side. Three Bulwer's Petrels, close in on starboard side.

1115--Three Bulwer's Petrels off port side.

1116--One Fairy Tern way off starboard side. Also one Brown Booby, going south.

1117--Three Bulwer's Petrels off starboard side, and one off port side.

1120--Three Bulwer's Petrels off starboard side. Also three off port side.

1121--Two Bulwer's Petrels off starboard side, one off port stern.

1124--Two Bulwer's Petrels off starboard side. also five more. Also one Red-footed Booby close to bow headed north.

1125--Another Red-footed Booby crossed the bow headed north.

1126--Two Sooty Terns off starboard side, flying northwest.

1129--One Bulwer's Petrel off starboard bow. Make that two. Also one Black-

footed Albatross following right behind the ship. This marks the first one that actually followed the ship.

1130--Two Sooty Terns passed the ship.

1132-- One Bulwer's Petrel passed close in on starboard side. Also one Wedge-tailed Shearwater and three Sooty Terns. ~~Si~~

Since our last report we have been eating lunch, and it is now 1211. On ~~ce~~

Black-footed Albatross behind the ship at the time. Also one Red-tailed Tropicbird flying overhead. The Albatross reported earlier, right after we left Nihoa, did not stay with the ship very long. The one following the ship, now, however, does not appear to be the same one. This one has a white patch on its rump.

1213--One Bulwer's Petrel off starboard side flying east.

1215--Two Bulwer's Petrels off starboard side.

1217--One Bulwer's Petrel crossed the bow.

1220--One Bulwer's Petrel crossed bow, headed in a northeast direction. Also three ~~bhb~~ Sooty Tern overhead.

1222--Two Bulwer's Petrels crossed bow, headed northeast. Also, two more Sooty Terns

1224--Two Fairy Terns, one of which is way off on the port side. The other is way off starboard stern.

1226--One Bulwer's Petrel off stern. Also five Sooty Terns off port side, crossing to our stern.

1228--One Bulwer's Petrel off stern. Also one Fairy Tern off starboard stern, headed east.

1230--The Black-footed Albatross which has been with us since it was reported is still with us. There are also now two Fairy Terns, three Fairy Terns,



flying off our starboard side.

1232--One Fairy Tern crossed bow, headed northeast.

1236--One Fairy Tern feeding one hundred yards off bow. Also One Sooty Tern.  
backed

1237--Flock of five Sooty Terns, two Gray Terns, and one Bulwer's Petrel.  
^^

1240--Two Sooty Terns flying east. One Fairy Tern way off starboard side.

1242--Three Sooty Terns passed starboard side, headed east.

1245--The Albatross which was following us earlier has now disappeared; we have not seen him for the past five or ten minutes.

1248--Two Bulwer's Petrels off port bow.

1249--One Wedge-tailed Shearwater crossed bow off starboard side. Also one Fairy Tern 600 yards off starboard side.

1251--One Bulwer's Petrel off stern. Also one Wedge-tailed Shearwater off port side.

1256--Two Red-tailed Tropicbirds, far off stern of ship, flying north. Also two Sooty Terns off starboard side. One Fairy Tern off starboard bow.

Zero  
1300--Albatross following ship. One Bulwer's Petrel off port side. One Wedge-tailed Shearwater off starboard bow.

1307--Also two Sooty Terns.

1308--One Wedge-tailed Shearwater off port side.

1312--One Bulwer's Petrel off stern. Also three Sooty Terns on the port side.

1315--No Albatrosses following the ship at this time.

1317--Six Sooty Terns following ship, one Bulwer's Petrel off port side. One Red-footed Booby off bow.

1320--One Bulwer's Petrel off port bow.

1323--One Bulwer's Petrel off bow.

1330--No Albatross following ship.

1337--One Fairy Tern off starboard bow.

1340--One Fairy Tern off starboard side headed northeast.

1350--One <sup>S</sup>Bulwer's Petrel off bow.

1358--One Bulwer's Petrel off port side.

~~1360--~~

1415--No Albatross. Four Sooty Terns

1430--One Bulwer's Petrel. No Albatross. Sooty Terns off port bow--saw four.

1436--Three Sooty Terns, far off port side.

1445--No Albatross following ship.

1448--<sup>Two</sup>~~One~~ Red-tailed Tropicbird flying overhead. Also one Bulwer's Petrel.

1457--Petrel off port side, headed east.

1458--Two Bulwer's Petrels, 200 yards off port.

1500--Zero Albatross. One Bulwer's Petrel.

1503--One Bulwer's Petrel off port bow.

1511--One Bulwer's Petrel off port side.

1513--One Bulwer's Petrel off port side, flying east.

1515--Two Sooty Terns, way off stern, flying north. No Albatross.

1518--Four Sooty Terns flying north off starboard side.

1519--One Bulwer's Petrel off starboard side., flying east.

1520--One Bulwer's Petrel off starboard side, flying east. Also, one Wedge-tailed Shearwater crossed our ship, starboard to port side.

1522--One Bulwer's Petrel off port side, flying east, very close. Two Sooty Terns flying east off starboard side. Also two Wedge-tailed Shearwaters off starboard bow. These crossed the bow headed southward.

1524--Another Sooty Tern off starboard headed east.

1525--Seven Sooty Terns off port side flying east. One Fairy Tern off starboard side along with one <sup>B</sup>ulwer's Petrel.

- 1527--One Wedge-tailed Shearwater off port bow.
- 1530--No Albatross following ship.
- 1630--One Laysan Albatross following ship. Considerable distance behind.
- 1815-- Ten Sooty Terns, one Wedge-tailed Shearwater off starboard stern .  
Two Wedge-tailed Shearwaters off starboard, approximately 100 yards. No Albatross at this time.
- 1817--A Laysan Albatross is following the ship, way back.
- 1818--One Wedge-tailed Shearwater off starboard.
- 1819--Three Wedge-tailed Shearwaters off starboard side, approximately 200 yards.
- 1820--One Red-tailed Tropicbird flying northeast and one Sooty Tern.
- 1821--One Wedge-tailed Shearwater off starboard side. Also one Bulwer's Petrel.
- 1822--Two Wedge-tailed Shearwaters off stern.
- 1824--~~///~~, Seven Sooty Terns flying east off port side.
- 1826--One Wedge-tailed Shearwater off starboard bow. Identification of this bird is questionable due to the fact that this may be a Wedge-tailed Shearwater or a Bonin Island Petrel.
- 1829--Three Sooty Terns off stern, crossing to starboard side. One Wedge-tailed Shearwater off bow.
- 1836--One Wedge-tailed Shearwater off port bow. One off starboard, also.
- 1842--One Wedge-tailed Shearwater off starboard bow.
- 1845--One Wedge-tailed Shearwater off bow. No Albatross. Haven't seen it for the last 15 or 20 minutes. It is now getting quite dark--almost dark. The moon is coming out and will be full tonight. The sun had set. There are a few clouds in the sky. The sea is rather calm, and the wind is blowing slightly, it appears to be coming out ~~pp~~ of the north.
- 1848--One Wedge-tailed Shearwater off port.
- 1849--Two Sooty Terns off port bow, flying east.



1850--One Wedge-tailed Shearwater off port bow, very close.

1854--Two Wedge-tailed Shearwaters off bow.

1855--One questionable Shearwater off bow.

1857-- Three Shearwaters off bow, two of which were Wedge-tailed and one of which was questionable. Also seven Sooty Terns, flying high, crossing bow of ship, headed northwest.

1858-- One Sooty Tern high overhead.

1859--Two Wedge-tailed Shearwaters off starboard side.

1900--Getting quite dark toward the stern of the ship, and no Albatross can be seen at this time.

1901--One Wedge-tailed Shearwater on starboard side. It is getting too dark to successfully make identification.

June 17, 1963--0730--Albatross count: seven <sup>B</sup>Black-footed, one Laysan; Sooty Terns, three; Red-tailed Tropicbirds, two.

0845--Albatross count, 8 Black-foots. Flock of 8 Sooty Terns.

0852--One Laysan Albatross off bow. Three Red-tailed Tropicbirds flying northwest.

0854--<sup>Two</sup>~~One~~ Wedge-tailed off starboard, flying northeast.

~~0800~~<sup>0800</sup>--Albatross Count--11 Black-foots. Seven Red-tailed Tropicbirds high over ship flying north. Approximately seven or eight Sooty Terns flying around the ship. Our position now is north of Laysan Island approximately 47 miles.

We will be abeam of Laysan at approximately 9 a.m.

0805--Two Wedge-tailed Shearwaters off port bow, headed south.

0810--One Wedge-tailed Shearwater off bow.

0812--Flock of 20 Sooty Terns.

0825--Approximately 30 Sooty Terns off starboard bow, in large flock circling overhead. Seven Black-footed Albatrosses around ship. One Wedge-tailed Shearwater off stern.

- 0819--Two Red-tailed Tropicbirds off starboard, along with four Sooty Terns and one flying fish.
- 0821--Approximately 15 Sooty Terns off port bow, 300 yards, appear to be feeding.
- 0824--One Wedge-tailed Shearwater off port side, headed southeast. Also two Wedge-tailed Shearwaters off port bow, 200 yards, also headed southeast. Also ten Sooty Terns overhead, headed west.
- 0825--One Wedge-tailed Shearwater off port bow, headed northwest.
- 0826--Three Wedge-tailed Shearwaters very close off starboard bow.
- 0828--One Red-tailed Tropicbird flew over ship headed north. Three Sooty Terns approaching starboard stern.
- 0830--One Red-tailed Tropicbird flying over ship. <sup>Five</sup> ~~Four~~ Sooty Terns around ship. Albatross count--four Black-foot.
- 0831--One Wedge-tailed Shearwater crossed ship headed south very close to ship. The sea this morning is very nice. The ship is hardly rolling and pitching at all, and the weather is clear with clouds on the horizon in almost all directions. We are traveling at 11 knots this morning, after traveling all night at 13 knots.
- 0832-- Two Red-tailed Tropicbirds flying overhead, from north to south. ~~One Wedge-tailed Shearwater headed south very close to ship.~~ Approach ship, headed northeast, circling back.
- 0834--Approximately 25 Sooty Terns off starboard bow. One Wedge-tailed Shearwater off port stern.
- 0835--Flock of 7 Sooty Terns off starboard bow, 600 yards. 0
- 0836--<sup>Three</sup> ~~One~~ Wedge-tailed Shearwater off starboard bow. The Red-tailed Tropicbirds are still with us.
- 0837--Eight Sooty Terns Around ship. Two Wedge-tailed Shearwaters off bow, 100 yards.
- 0839--Two Wedge-tailed Shearwaters off port bow.

0840--One Laysan Albatross, way off port side.

0841--Red-tailed Tropicbird on the water off bow. Could have been one of the two which have been flying around the ship, since last reported. ~~Three~~ Black-footed Albatrosses in the water in the same vicinity.

0842--The two Red-tailed Tropicbirds are still with us, but are now flying toward the southwest. There are approximately 15 Sooty Terns circling ship. Albatross count at 0845--three Black-foots. Also one Wedge-tailed Shearwater on starboard side.

0846--One Wedge-tailed Shearwater off starboard bow.

0848--Ten Sooty Terns in flock off starboard side.

0900--Albatross count--five Black-foots

0902--Approximately flock of 30 Sooty Terns, flying very low over the water. Appear to be feeding off starboard side ~~at~~ 600 yards. Also among them were approximately ten to fifteen Wedge-tailed Shearwaters. Most of these were on the water, and would occasionally fly.

0905--One Laysan Albatross off bow. Flock of 40 Sooty Terns flying around ship

0906--One Wedge-tailed Shearwater immediately off starboard bow.

0908--One Wedge-tailed Shearwater off starboard bow. More than eight Sooty Terns around ship, headed northwest.

0910--Wedge-tailed Shearwater off port side. Approximately one dozen Sooty Terns flying continuously around ship. Also three Wedge-tailed Shearwaters off starboard bow.

0914--Four Wedge-tailed Shearwaters off starboard bow. Also six Sooty Terns flying across from port to starboard off the bow.

0915--Two Black-footed Albatrosses. Also flock of approximately ten Sooty Terns around ship.

0920--Two Wedge-tailed Shearwaters off port side, one off starboard side.



0921--Shearwaters off port bow of ship.

0930--Zero Albatrosses behind ship. Two Wedge-tailed Shearwaters off port side,  
two off starboard.

- 0932-- One Laysan Albatross way off starboard bow
- 0934-- One Wedge-tailed Shearwater off starboard bow
- 0936-- Three Wedge-tailed Shearwater stern ( off), we are now meeting a ship off starboard side, approximately 2 miles
- 0942-- Three <sup>to</sup> Four Sooty Terns flying around ship, also one Wedge-tailed Shearwater off starboard bow.
- 0945-- One Black footed Albatross following ship, also one Wedge-tailed Shearwater off port side, and <sup>eleven</sup> ~~seven~~ Sooty Terns. ~~correction eleven~~
- 0950-- One Laysan Albatross directly off bow of ship approaching ~~to~~ port side, also one Wedge-tailed Shearwater off starboard side and <sup>Five</sup> ~~two~~ Sooty Terns following ship, ~~correction five sooty terns~~
- 0955-- Seven Sooty Terns crossed bow ship, three more off stern .
- 0958-- One Laysan Albatross off ~~starboard~~ port ~~correction~~ bow ; also a flock of approximately fifteen sooty terns off stern <sup>ship</sup>
- 1000-- Two Black-footed Albatrosses following ship, large flock of Sooty Terns way off port bow on the horizon, approximately five around ship.
- 1003-- Approximately fourteen sooty terns off starboard side
- 1015-- Two Sooty terns overhead, three Black-foot Albatrosses following ship
- 1021-- One Laysan Albatross off bow, also one Wedge-tailed Shearwater off bow, five Sooty terns passed ship
- 1023-- One Wedge-tailed Shearwater off starboard side
- 1024-- Flock of twenty Sooty terns off starboard side, headed northwest.
- 1026-- Two Wedge-tailed Shearwaters crossed bow from starboard to port.
- 1030-- No Albatross behind ship
- 1035-- Two Black-foot Albatross following ship, also two Sooty Terns passed starboard side, headed east.
- 1052-- One Laysan Albatross off port side, <sup>Six</sup> ~~four~~ Black-footed Albatrosses behind ship, ~~correction six black foot~~

- also one Laysan Albatross off starboard side crossing to port.
- 1054-- One Sooty Tern, <sup>and</sup> ~~also~~ two Red-tailed Tropicbirds circling ship.
- 1100-- Six Black-footed Albatrosses following ship, two Sooty Terns off bow; also two tropicbirds still with us, one ~~Wedged~~-tailed shearwater off starboard bow.
- 1112-- One Wedged tailed shearwater off bow, headed north
- 1114-- Five Sooty terns over ship
- 1115-- Nine Blacked footed Albatross behind ship
- 1127-- Three Red tailed Tropicbirds over ship
- 1130-- Four Black foot Albatross, one Laysan Albatross
- 1134-- One ~~Wedged~~-tailed Shearwater off stern, a flock of approximately fifteen Sooty Terns off bow, ~~Red-tailed~~ Tropicbirds are still with us
- 1230-- Five ~~Black~~-footed Albatross following ship, one Wedge-tailed Shearwater off starboard, one ~~Red-tailed~~ Tropicbird over ship
- 1242-- Two ~~Wedged~~-tailed Shearwaters off bow
- 1244-- Garbage dumped over fantail, fourteen Albatrosses around the ship also one Laysan Albatross, the ~~Red-tailed~~ Tropicbird is still with us
- 1247-- One ~~Wedged~~-tailed Shearwater pass<sup>ed</sup> starboard side, headed east; also four Sooty Terns off starboard headed north.
- 1251-- Flock of seven Sooty Terns over ship high, headed northeast
- 1256-- One Red tailed Tropicbird over head
- 1300-- Five ~~Black~~-footed Albatross following ship, one Red-tailed Tropicbird and three Sooty Terns
- 1315-- Five Black-footed Albatrosses, one Red-tailed Tropicbird, one Sooty Tern



- 1330-- One Black footed Albatross
- 1345-- Four Black footed Albatross
- 1415-- Three Black footed Albatross, one Laysan Albatross,
- 1430-- Three Black footed Albatross following ship
- 1444-- Flock of ten Sooty terns off starboard
- 1445-- Two Black foot Albatross and one Laysan
- 1500-- Two Black foot Albatross following ship
- 1515-- Five Black footed Albatross following ship, also two Sooty terns
- 1530-- Four Black foot Albatross following ship, one Laysan Albatross
- 1533-- Four Sooty terns off port
- 1540-- One Sooty tern off port
- 1545-- Five Black footed Albatross, two Laysan following ship
- 1600-- Four Black-foot<sup>d</sup> Albatross, and one Laysan also two Red-tailed  
Tropicbirds
- 1604-- One Sooty Tern off port side, Red-tailed Tropicbird still with  
us
- 1615-- ~~Four Black-foot<sup>d</sup> Albatross~~, correction Five Black-foot<sup>d</sup> Albatrosses  
behind ship and one Laysan Albatross
- 1621-- Bonin Island Petrel off port bow, possibly very very small, appears  
to be smaller than the Wedge<sup>d</sup>-tailed Shearwater<sup>d</sup>, positive  
identification was not made
- 1624-- Sooty terns following ship
- 1628-- Three Sooty terns past over ship headed northwest
- 1630-- Three Black foot Albatross following ship, one Wedge<sup>d</sup>-tailed  
Shearwater off stern
- 1635-- Laysan Albatross back with us
- 1640-- Four Sooty Terns off rear of ship head north

1645-- Four Black-foot<sup>ed</sup> Albatross following ship

1815-- Six Black foot Albatross following ship

1857-- One Wedge<sup>d</sup>-tailed Shearwater off stern

1830-- Four Black foot Albatross following ship, also Wedge<sup>d</sup>-tailed  
Shearwaters off stern

1840-- Seven Sooty Terns off starboard side

1845-- Five Black footed Albatross behind ship

1421

wedgetailed Shearwater - off port going SB



June 4, 1963

09:35 - clearing harbor mouth

- Brown Booby - 2

0958 - Wedge Tailed Shearwater

1004 - " " " - off port

1009 Common Noddy " "

1018 - Common Noddy + 3 grey-backed terns → NE

1025 - 2 sooty terns → NE

1029 wedge Tailed Shearwater ~~off~~ <sup>off</sup> Barbers Point

1034 common Noddy - Starboard

1035 2 common noddies - way off Starboard

1040 common noddy - Port side → W

1043 " " Port side → SW

1045 " " Starboard → N

1051 wedgetailed Shearwater - port

1058 sooty tern (6) + 1 off ~~port~~ starboard

1059 " " (4) + (3) " " → NE

1100 " " (6) SORT OF A continuous stream

1101 Small craft off starboard bow with many birds behind it.

Approx 40 common noddies

AND 10 wedge-tailed Shearwaters

~~20 wedgetails~~

~~40 sooties~~

1110 Approx 300 birds feeding off bow

3 to 1 ratio com. noddies to wedgetails

1 brown booby

1130 Red footed Booby off starboard

Location AT Sea  
 Observer Marshall & Trevor Date June 30 Time 12:00 to 5:00  
 Weather clear 5/10 cloud cover

SPECIES	Abundance				Breeding			Remarks	2:00	3:00	4:00
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young				
Laysan Albatross		2	2	2	2	1	1	52	1	1	1
Black-footed Albatross		3	3	2	2	2	2	63	2	3	3
Wedge-tailed Shearwater										1	1
Christmas I. Shearwater											
Audubon's Shearwater											
Bonin I. Petrel		1						32	1	1	
Phoenix I. Petrel											
Bulwer's Petrel											
Sooty Petrel											
Red-tailed Tropicbird			1					112			
White-tailed Tropicbird											
Masked Booby											
Brown Booby											
Red-footed Booby											
Great Frigatebird											
Golden Plover											
Ruddy Turnstone											
Wandering Tattler											
Sanderling											
Bristle-thighed Curlew											
Sooty Tern								152	2	1	
Gray-backed Tern											
Brown-winged Tern											
Common Noddy			1	2							
Hawaiian Noddy											
Blue-gray Noddy											
Fairy Tern								12		1	





Location AT sea  
 Observer Marshall & Trevor Date JUNE 30 Time 7AM to 12AM  
 Weather clear 5/10th cloud cover

SPECIES	Abundance			Breeding			Remarks	9:00	10:00	11:00	
	7:00	8:00	9:00	7:00	8:00	9:00					
Laysan Albatross	24	108	8	7	10	4	4	24	24	2	2
Black-footed Albatross								34	35	3	32
Wedge-tailed Shearwater			2				1		1	2	
Christmas I. Shearwater											
Audubon's Shearwater											
Bonin I. Petrel	1	1	1				2	2			1
Phoenix I. Petrel											1
Bulwer's Petrel											
Sooty Petrel											
Red-tailed Tropicbird		1	1				1		1		1
White-tailed Tropicbird											
Masked Booby											
Brown Booby											
Red-footed Booby											
Great Frigatebird								1			
Golden Plover	1										
Ruddy Turnstone	1										
Wandering Tattler											
Sanderling											
Bristle-thighed Curlew											
Sooty Tern	1	108	8				4	1	3	2	1
Gray-backed Tern											
Brown-winged Tern											
Common Noddy			2								
Hawaiian Noddy											
Blue-gray Noddy											
Fairy Tern			1						1		

*[Faint, illegible handwriting]*

HOURLY POSITIONS •

1200W TO 2400X 6-4-63

1200 W	21-21 N 158-20 W
1300 W	21-25 N 158-31 W
1400 W	21-29 N 158-41 W
1500 W	21-33 N 158-51 W
1600 W	21-37 N 159-02 W
1700 W	21-41 N 159-12 W ✓
1800 W	21-45 N 159-23 W
1900 W	21-49 N 159-33 W
1900 X	21-53 N 159-44 W
2000 X	21-59 N 159-54 W
2100 X	22-06 N 160-02 W
2200 X	22-12 N 160-13 W
2300 X	22-17 N 160-24 W
2400 X	22-22 N 160-35 W

HOURLY POSITIONS •

0100X TO 0700X 6-5-63

0100 X	22-28 N 160-45 W
0200 X	22-33 N 160-56 W
0300 X	22-39 N 161-07 W
0400 X	22-44 N 161-18 W
0500 X	22-49 N 161-29 W
0600 X	22-55 N 161-39 W ✓
0700 X	23-00 N 161-50 W
800	23-05 162-01



HOURLY POSITIONS.

1100 X TO 2400 X 6-6-63

1100 X	23-05 N 162-01 W
1200 X	23-09 N 162-14 W
1300 X	23-13 N 162-28 W
1400 X	23-17 N 162-42 W
1500 X	23-21 N 162-58 W
1600 X	23-24 N 163-08 W
1700 X	23-26 N 163-22 W
1800 X	23-29 N 163-36 W
1900 X	23-30 N 163-50 W
2000 X	23-31 N 164-03 W
2100 X	23-34 N 164-16 W
2200 X	23-37 N 164-28 W
2300 X	23-41 N 164-42 W
2400 X	23-44 N 164-55 W

HOURLY POSITIONS.

0100 X TO 0700 X 6-7-63

0100 X	23-46 N 165-07 W
0200 X	23-48 N 165-20 W
0300 X	23-51 N 165-33 W
0400 X	23-53 N 165-46 W
0500 X	23-55 N 165-58 W
0600 X	23-58 N 166-11 W ✓
0700 X	23-52 N 166-26 W

HOURLY POSITIONS 15 JUNE, 63

1600X TO 2400X

1600	23-50 N 166-19 W
1700	23-54 N 166-26 W
1800	23-58 N 166-33 W
1900	24-03 N 166-40 W
2000	24-08 N 166-46 W
2100	24-13 N 166-53 W
2200	24-17 N 166-59 W
2300	24-22 N 167-06 W
2400	24-26 N 167-13 W

HOURLY POSITIONS 16 JUNE, 63

0100X TO 2400X

0100	24-31 N 167-20 W
0200	24-36 N 167-26 W
0300	24-41 N 167-33 W
0400	24-45 N 167-40 W
0500	24-50 N 167-46 W
0600	24-55 N 167-53 W
0700	25-00 N 168-00 W
1600	25-05 N 168-04 W
1700	25-14 N 168-12 W
1800	25-24 N 168-21 W
1900	25-29 N 168-32 W
2000	25-32 N 168-45 W
2100	25-37 N 168-59 W
2200	25-43 N 169-13 W
2300	25-47 N 169-26 W
2400	25-51 N 169-40 W

Hourly Positions 17 JUNE, 63

0100 X TO 2400 X

0100	25-56 N 169-59 W
0200	25-01 N 170-09 W
0300	26-06 N 170-22 W
0400	26-11 N 170-35 W
0500	26-16 N 170-49 W
0600	26-19 N 171-01 W ✓
0700	26-24 N 171-15 W
0800	26-29 N 171-28 W
0900	26-32 N 171-39 W
1000	26-36 N 171-51 W
1100	26-40 N 172-03 W
1200	26-43 N 172-15 W
1300	26-47 N 172-26 W
1400	26-51 N 172-39 W
1500	26-55 N 172-51 W
1600	26-59 N 173-04 W
1700	27-03 N 173-16 W
1800	27-07 N ✓ 173-28 W
1900	27-11 N 173-41 W
2000	27-15 N 173-53 W
2100	27-17 N 174-04 W
2200	27-20 N 174-14 W
2300	27-22 N 174-24 W
2400	27-24 N 174-35 W

Hourly Positions 18 JUNE, 63

0100 X TO 0700 X

0100	27-27 N 174-45 W
0200	27-29 N 174-56 W
0300	27-31 N 175-07 W
0400	27-34 N 175-17 W
0500	27-36 N 175-27 W
0600	27-39 N 175-38 W ✓
0700	27-43 N 175-47 W



# Hourly Positions

0700 X To 2000 X 6-30-63

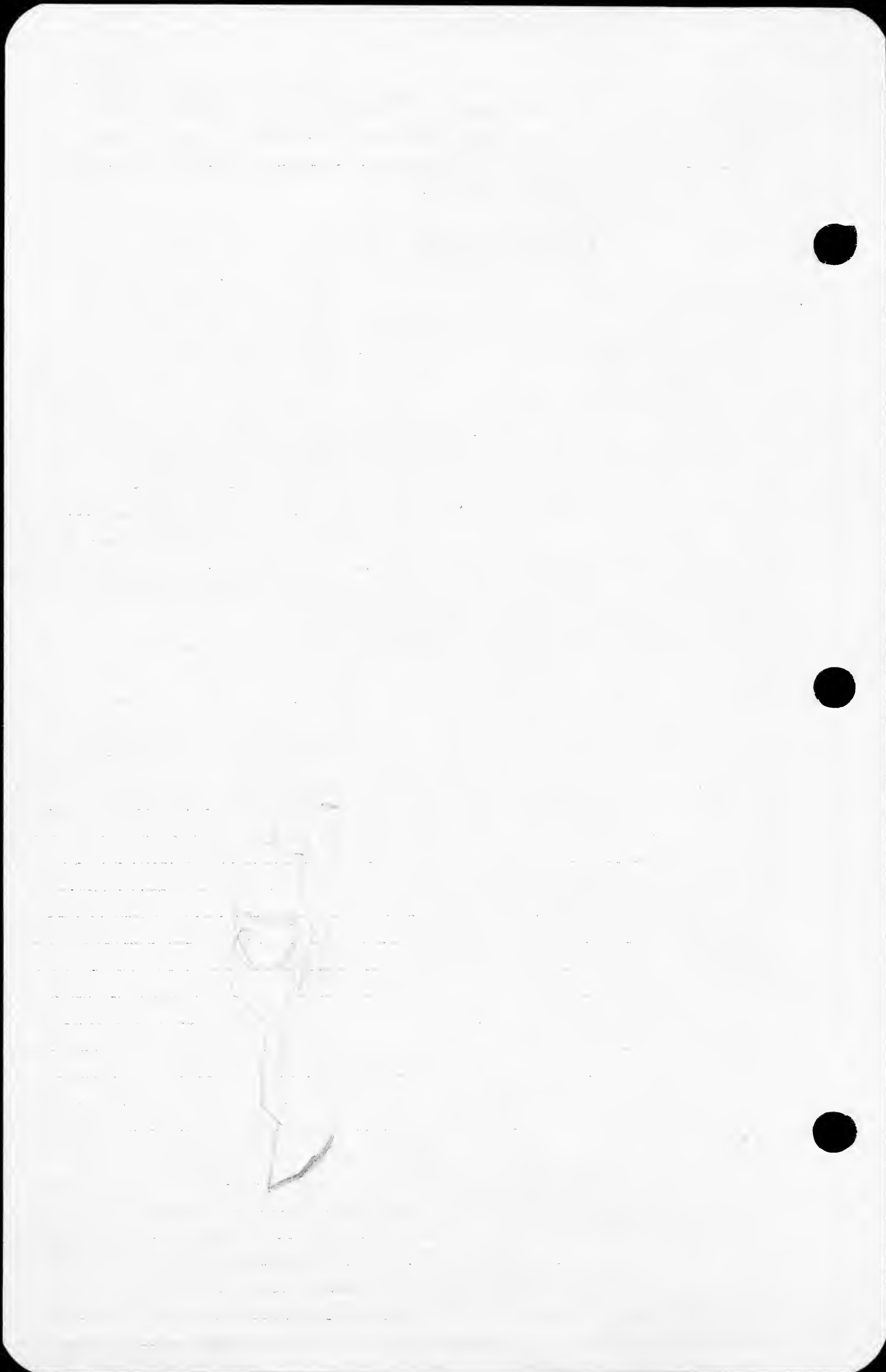
0700	28-06 N 177-23 W
0800	27-56 N 177-21 W
0900	27-46 N 177-19 W
1000	27-36 N 177-18 W
1100	27-25 N 177-16 W
1200	27-15 N 177-14 W
1300	27-05 N 177-12 W
1400	26-54 N 177-10 W
1500	26-44 N 177-09 W
1600	26-34 N 177-07 W
1700	26-23 N 177-06 W
1800	26-13 N 177-04 W ✓
1900	26-03 N 177-02 W
2000	25-53 N 177-01 W





















Location

Observer

Date

July 4

Time

7 to 12 P.M.

Weather

Clear 2/10 clouds

SPECIES	Abundance				Breeding			Remarks	9:00	10:00	11:00
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young				
Laysan Albatross											
Black-footed Albatross											
Wedge-tailed Shearwater											
Christmas I. Shearwater											25
Audubon's Shearwater											
Bonin I. Petrel							5		1		2
Phoenix I. Petrel											
Bulwer's Petrel											
Sooty Petrel											
Red-tailed Tropicbird											
White-tailed Tropicbird											
Masked Booby									1		
Brown Booby											
Red-footed Booby											
Great Frigatebird											
Golden Plover											
Ruddy Turnstone											
Wandering Tattler											
Sanderling											
Bristle-thighed Curlew											
Sooty Tern											
Gray-backed Tern											
Brown-winged Tern											
Common Noddy											
Hawaiian Noddy											
Blue-gray Noddy											
Fairy Tern											





Location

at sea

Observer

Date JULY 5

Time 7 to 12

Weather

SPECIES	Abundance				Breeding			Remarks	9:00	10:00	11:00
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young				
Laysan Albatross											
Black-footed Albatross											
Wedge-tailed Shearwater											
Christmas I. Shearwater											
Audubon's Shearwater											
Bonin I. Petrel											
Phoenix I. Petrel											
Bulwer's Petrel											
Sooty Petrel											
Red-tailed Tropicbird											
White-tailed Tropicbird											
Masked Booby											
Brown Booby											
Red-footed Booby											
Great Frigatebird											
Golden Plover											
Ruddy Turnstone											
Wandering Tattler											
Sanderling											
Bristle-thighed Curlew											
Sooty Tern											
Gray-backed Tern											
Brown-winged Tern											
Common Noddy											
Hawaiian Noddy											
Blue-gray Noddy											
Fairy Tern											



Location *at sea between Baker + Enderbury*  
 Observer *Marshall + Trevor* Date *July 5* Time *10:00 to 2:00*  
 Weather *clear 4/10*

SPECIES	Abundance			Breeding	Remarks	1:00 13:00		2:00	Σ
	000	0000	+	000					
Laysan Albatross									
Black-footed Albatross									
Wedge-tailed Shearwater									
Christmas I. Shearwater									
Audubon's Shearwater									
Bonin I. Petrel									
Phoenix I. Petrel		1	1						
Bulwer's Petrel									
Sooty Petrel									
Red-tailed Tropicbird				?					
White-tailed Tropicbird									
Masked Booby	1							1	1
Brown Booby									
Red-footed Booby									
Great Frigatebird									
Golden Plover									
Ruddy Turnstone									
Wandering Tattler									
Sanderling									
Bristle-thighed Curlew									
Sooty Tern	1	1	1						3
Gray-backed Tern									
Brown-winged Tern									
Common Noddy									
Hawaiian Noddy									
Blue-gray Noddy									
Fairy Tern									2

300

Sooty Tern





HOURLY POSITIONS

0700X To 2000X 7-1-63

0700	23-57 N 176-49 W
0800	23-47 N 176-47 W
0900	23-37 N 176-45 W
1000	23-27 N 176-43 W
1100	23-17 N 176-41 W
1200	23-07 N 176-39 W
1300	22-59 N 176-38 W
1400	22-49 N 176-36 W
1500	22-39 N 176-34 W
1600	22-29 N 176-32 W
1700	22-19 N 176-30 W
1800	22-09 N 176-28 W
1900	21-59 N 176-26 W
2000	21-49 N 176-25 W

HOURLY POSITIONS

2000X - 2000X 7-2-63

0700	19-58N 176-13W ✓
0800	19-46N 176-12W
0900	19-34N 176-10W
1000	19-22N 176-08W
1100	19-10N 176-06W
1200	18-58N 176-04W
1300	18-46N 176-02W
1400	18-34N 176-01W
1500	18-22N 175-59W
1600	18-10N 175-57W
1700	17-58N 175-55W
1800	17-46N 175-53W ✓
1900	17-34N 175-52W
2000	17-22N 175-50W

HOURLY POSITIONS

0700 X TO 2000X 7-3-63

0700	15-00N 175-26W ✓
0800	14-48N 175-24W
0900	14-35N 175-22W
1000	14-23N 175-20W
1100	14-11N 175-19W
1200	13-58N 175-17W
1300	13-46N 175-16W
1400	13-34N 175-14W
1500	13-21N 175-12W
1600	13-09N 175-11W
1700	12-57N 175-09W
1800	12-44N 175-08W ✓
1900	12-32N 175-06W
2000	12-18N 175-05W

Hourly Positions

0700X TO 2000X 7-4-63

0700	10-14 N 174-55 W
0800	10-05 N 174-54 W
0900	09-56 N 174-52 W
1000	09-46 N 174-51 W
1100	09-37 N 174-50 W
1200	09-27 N 174-48 W
1300	09-18 N 174-47 W
1400	09-08 N 174-46 W
1500	08-59 N 174-45 W
1600	08-49 N 174-44 W
1700	08-40 N 174-42 W
1800	08-30 N 174-40 W
1900	08-21 N 174-39 W
2000	08-11 N 174-38 W

Hourly Positions

0700X TO 2000X 7-5-63

0700	06-15 N 174-17 W
0800	06-04 N 174-14 W
0900	05-53 N 174-12 W
1000	05-41 N 174-10 W
1100	05-30 N 174-08 W
1200	05-19 N 174-06 W
1300	05-08 N 174-04 W
1400	04-57 N 174-02 W
1500	04-47 N 174-05 W
1600	04-37 N 174-10 W
1700	04-28 N 174-15 W
1800	04-17 N 174-19 W
1900	04-07 N 174-24 W
2000	03-56 N 174-29 W



HOURLY POSITIONS

0700X TO 1400X 7-6-63

0700	01-57 N 175-48 W
0800	01-47 N 175-55 W
0900	01-38 N 176-03 W
1000	01-28 N 176-10 W
1100	01-18 N 176-18 W
1200	01-08 N 176-36 W
1300	00-58 N 176-34 W
1400	00-50 N 176-39

HOURLY POSITIONS

0700X TO 1900X 7-17-63

0700	01-56 S 170-23 W
0800	01-49 S 170-17 W
0900	01-32 S 170-09 W
1000	01-21 S 170-03 W
1100	01-07 S 169-55 W
1200	00-56 S 169-48 W
1300	00-45 S 169-41 W
1400	00-33 S 169-34 W
1500	00-21 S 169-27 W
1600	00-09 S 169-20 W
1700	00-03 N 169-13 W
1800	00-15 N 169-06 W
1900	00-27 N 168-58 W

HOURLY POSITIONS

0700 X TO 1900 X 7-18-63

0700	02-58 N 167-40 W
0800	03-11 N 167-32 W
0900	03-23 N 167-24 W
1000	03-34 N 167-15 W
1100	03-46 N 167-07 W
1200	03-57 N 166-59 W
1300	04-10 N 166-51 W
1400	04-21 N 166-42 W
1500	04-33 N 166-34 W
1600	04-45 N 166-26 W
1700	04-56 N 166-18 W
1800	05-09 N 166-10 W
1900	05-20 N 166-02 W

HOURLY POSITIONS

0700 X TO 1900 X 7-19-63

0700	07-52 N 164-23 W ✓
0800	08-03 N 164-18 W
0900	08-14 N 164-12 W
1000	08-25 N 164-07 W
1100	08-37 N 164-02 W
1200	08-48 N 163-57 W
1300	08-59 N 163-52 W
1400	09-10 N 163-47 W
1500	09-22 N 163-41 W
1600	09-33 N 163-36 W
1700	09-44 N 163-31 W
1800	09-55 N 163-26 W ✓
1900	10-06 N 163-21 W

HOURLY POSITIONS  
0700X TO 1900X 7-20-63

0700	12-25 N	
0800	162-11 W	✓
	12-35 N	
0900	162-06 W	
	12-45 N	
1000	162-01 W	
	12-54 N	
1100	161-56 W	
	13-04 N	
1200	161-50 W	
	13-13 N	
1300	161-45 W	
	13-23 N	
1400	161-40 W	
	13-33 N	
1500	161-35 W	
	13-43 N	
1600	161-30 W	
	13-53 N	
1700	161-25 W	
	14-02 N	
1800	161-19 W	
	14-12 N	
1900	161-14 W	✓
	14-21 N	
	161-09 W	

HOURLY POSITIONS  
0700X TO 1900X 7-21-63