

# **APPENDIX J**

## **BIRD NESTING DATA (1984-2011)**

Appendix J. Bald Head Island shorebird monitoring data between 1984 and 2011 provided by NC Wildlife Resources Commission.

| Date       | Species         | Number of Birds | Number of Breeding Pairs | Habitat                                | Landside     | Comments   | Latdeg | Latmin     | Longdeg | Longmin     | Lat-Long Accuracy                                |
|------------|-----------------|-----------------|--------------------------|--|--------------|--|--------|------------|---------|-------------|--|
| 1984       | Piping Plover   | 10              |                          | sand spit-inlet beach                  | inlet        | New Inlet --from old data compiled by John Fussell -- American Birds and Bill Brokaw   | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 1985       | Piping Plover   | 2               |                          |  | inlet        | New Inlet -data from American Birds, Bill Brokaw, John Fussell   | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 1986       | Piping Plover   | 1               |                          |  | inlet        | New Inlet -data from American Birds, Bill Brokaw, John Fussell   | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 1987       | Piping Plover   | 1               |                          |  | inlet        | New Inlet- data from American Birds, Bill Brokaw, John Fussell   | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 1988       | Piping Plover   | 0               |                          |  | inlet        | New Inlet- data from American Birds, Bill Brokaw, John Fussell   | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 1989       | Piping Plover   | 0               |                          |  | inlet        | New Inlet- data from American Birds, Bill Brokaw, John Fussell   | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 1987       | Piping Plover   | 1               |                          |  |              | from data compiled by David Allen  | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 1989       | Piping Plover   | 4               |                          |  |              | from data compiled by David Allen  | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 5/26/1989  | Wilson's Plover | 17              | 8                        | sand beach/dunes/sand spit-inlet beach | ocean, inlet | 8 pairs and 1 territorial female, 1 nest found with 3 eggs, 3 young chicks seen also.  | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 5/26/1989  | Piping Plover   | 0               |                          |  |              | Areas surveyed: From Mouth of Bald Head Creek to beyond the river point, from site of old coast guard station (Capt. Charlie's) to the cape point and N to New Inlet | 33     | 54         | 77      | 52.20000076 | estimate from map                                |
| 12/31/1990 | Piping Plover   | 0               |                          |  | ocean, inlet | South side of New inlet (shoaled in since then)  | 33     | 54.7999992 | 77      | 57          | estimate from map                                |
| 1/19/1991  | Piping Plover   | 0               |                          |  |              |  | 33     | 51         | 77      | 58          | estimate from map:center of largest area covered |
| 6/8/1991   | Piping Plover   | 0               |                          |  |              |  | 33     | 51         | 77      | 58          | estimate from map                                |
| 7/1/1994   | Piping Plover   | 0               |                          |  |              |  | 33     | 51         | 77      | 58          | estimate from map:center of largest area covered |
| 1/18/1996  | Piping Plover   | 0               |                          |  |              |  | 33     | 54         | 77      | 52.20000076 | estimate from map                                |

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|            |               |   |  |                                   |       |  |    |            |    |             |                   |
|------------|---------------|---|--|-----------------------------------|-------|--|----|------------|----|-------------|-------------------|
| 6/1/1996   | Piping Plover | 0 |  |                                   |       |  | 33 | 54         | 77 | 52.20000076 | estimate from map |
| 7/1/1997   | Piping Plover | 0 |  |                                   |       |  | 33 | 51.4000015 | 78 | 0           | estimate from map |
| 7/1/1998   | Piping Plover | 0 |  |                                   |       |  | 33 | 54         | 77 | 52.20000076 | estimate from map |
| 6/1/1999   | Piping Plover | 0 |  |                                   |       |  | 33 | 54         | 77 | 52.20000076 | estimate from map |
| 7/1/1999   | Piping Plover | 0 |  |                                   |       |  | 33 | 54         | 77 | 52.20000076 | estimate from map |
| 6/1/2000   | Piping Plover | 0 |  |                                   |       |  | 33 | 54         | 77 | 52.20000076 | estimate from map |
| 7/1/2000   | Piping Plover | 1 |  |                                   |       | north end  | 33 | 54         | 77 | 52.20000076 | estimate from map |
| 9/28/2000  | Piping Plover | 1 |  |                                   |       |  | 33 | 54.9000015 | 77 | 55.79999924 | estimate from map |
| 11/17/2000 | Piping Plover | 1 |  |                                   | ocean |  | 33 | 51.5       | 78 | 0.5         | estimate from map |
| 2/1/2001   | Piping Plover | 0 |  |                                   |       |  | 33 | 50.7799988 | 77 | 57.93999863 | hand held GPS     |
| 3/3/2001   | Piping Plover | 1 |  | sand beach/intertidal surf        | ocean | 50 yards west of Captain Charlie's crossover (.75 mi west of Cape Fear)  | 33 | 51.3300018 | 78 | 0           | estimate from map |
| 3/22/2001  | Piping Plover | 2 |  | dunes                             | ocean | chasing Wilson's, these 2 pipers were in the area of beach disposal      | 33 | 52         | 78 | 0.600000024 | estimate from map |
| 3/22/2001  | Piping Plover | 1 |  | sand beach/intertidal surf        | ocean | 100 yards east of Captain Charlie's crossover (.25 mi west of Cape Fear) | 33 | 51.5       | 78 | 0.330000013 | estimate from map |
| 3/27/2001  | Piping Plover | 0 |  |                                   |       |  | 33 | 52         | 78 | 0.600000024 | estimate from map |
| 3/27/2001  | Piping Plover | 1 |  | sand beach                        | ocean | east of Cpt. Charlie's crossover (.25 mi west of Cape Fear)              | 33 | 51.5       | 78 | 0.330000013 | estimate from map |
| 3/27/2001  | Piping Plover | 3 |  | sand beach/intertidal surf        | ocean | east of Cpt. Charlie's crossover (.5 mi west of Cape Fear)               | 33 | 51.4000015 | 78 | 0.25        | estimate from map |
| 5/26/2001  | Piping Plover | 0 |  | sand beach/dunes/mudflat-sandflat | ocean | west beach   | 33 | 52.1100006 | 78 | 0.629999995 | hand held GPS     |
| 5/26/2001  | Piping Plover | 0 |  | sand beach/dunes/mudflat-sandflat | ocean | Cape Fear  | 33 | 50.5600014 | 77 | 57.68000031 | hand held GPS     |
| 5/26/2001  | Piping Plover | 0 |  | sand beach/dunes/mudflat-sandflat | ocean | south beach  | 33 | 51.1100006 | 77 | 59.20000076 | hand held GPS     |

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|            |                        |    |    |                                   |                     |  |    |            |    |             |                          |
|------------|------------------------|----|----|-----------------------------------|---------------------|--|----|------------|----|-------------|--------------------------|
| 5/30/2001  | Piping Plover          | 0  |    |                                   |                     | sand disposal on beach front in center part of survey area- this area not surveyed | 33 | 51.5499992 | 78 | 0.600000024 | estimate from map        |
| 5/30/2001  | Wilson's Plover        | 18 | 9  | overwash/dunes                    | ocean               | 9 breeding pairs   | 33 | 54         | 77 | 52.20000076 | estimate from map        |
| 5/30/2001  | American Oystercatcher | 2  | 1  | overwash/dunes                    | ocean               | 1 breeding pair  | 33 | 54         | 77 | 52.20000076 | estimate from map        |
| 5/30/2001  | Willet                 | 22 | 11 | overwash/dunes                    | ocean               | 11 breeding pairs  | 33 | 54         | 77 | 52.20000076 | estimate from map        |
| 6/2/2001   | Piping Plover          | 0  |    | sand beach/dunes/mudflat-sandflat | ocean               | Cape Fear  | 33 | 50.5600014 | 77 | 57.68000031 | hand held GPS            |
| 6/2/2001   | Piping Plover          | 0  |    | sand beach/dunes/mudflat-sandflat | ocean               | west beach   | 33 | 52.1100006 | 78 | 0.629999995 | hand held GPS            |
| 6/2/2001   | Piping Plover          | 0  |    | sand beach/dunes/mudflat-sandflat | ocean               | south beach  | 33 | 51.1100006 | 77 | 59.20000076 | hand held GPS            |
| 7/1/2001   | Piping Plover          | 0  |    |                                   |                     |  | 33 | 51.5       | 78 | 0           | estimate from map        |
| 7/8/2001   | Piping Plover          | 5  |    | intertidal surf                   | ocean               | .25 mi. west of Cape Fear  | 33 | 50.5       | 77 | 58.15000153 | estimate from map        |
| 8/16/2001  | Piping Plover          | 1  |    | intertidal surf                   | ocean               | near mouth of Cape Fear river  | 33 | 51.5999985 | 78 | 0.600000024 | estimate from map        |
| 7/1/2002   | Piping Plover          | 0  |    | sand beach/sand spit-inlet beach  | inlet, sound, ocean |  | 33 | 51         | 77 | 58          | survey not site specific |
| 8/23/2002  | Piping Plover          | 1  |    | sand beach/intertidal surf        | ocean               | midway btwn Cape Fear and the mouth of the Cape Fear River, no bands               | 33 | 50.5600014 | 77 | 57.68000031 | estimate from map        |
| 9/13/2002  | Piping Plover          | 1  |    | intertidal surf                   | ocean               | .5 miles W of Cape Fear, no bands  | 33 | 51.4000015 | 78 | 0.25        | estimate from map        |
| 11/25/2002 | American Oystercatcher | 30 |    |                                   |                     | aerial survey  | 33 | 51         | 77 | 58          | survey not site specific |
| 6/23/2003  | Piping Plover          | 0  |    |                                   |                     |  | 33 | 51         | 77 | 58          | survey not site specific |
| 6/4/2004   | American Oystercatcher | 2  | 1  |                                   | ocean               | ~2 miles past sign; 1 breeding pair  | 33 | 52.9000015 | 77 | 57.5        | survey not site specific |
| 6/4/2004   | Wilson's Plover        | 2  | 1  |                                   | ocean               | 1 breeding pair; nest with 3 eggs observed at the The Point                        | 33 | 50.5       | 77 | 57.79999924 | estimate from map        |

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|          |                        |    |   |  |       |  |    |            |    |             |   |
|----------|------------------------|----|---|--|-------|--|----|------------|----|-------------|---|
| 6/4/2004 | Wilson's Plover        | 2  | 1 |  | ocean | 1 breeding pair; 1 chick observed in a washover behind the first row of dunes. Another male flew into pairs territory causing pair to defend chick and territory; ~2 miles past sign | 33 | 52.9000015 | 77 | 57.5        | estimate from map                               |
| 7/1/2005 | Piping Plover          | 0  |   |  |       |  | 33 | 51         | 77 | 58          | survey not site specific                        |
| 2/1/2006 | Piping Plover          | 0  |   |  |       |  | 33 | 51         | 77 | 58          | survey not site specific                        |
| 5/2/2006 | Piping Plover          | 4  |   |  | ocean | South Point  | 33 | 51         | 77 | 58          | survey not site specific                        |
| 6/7/2006 | Red Knot               | 30 |   |  |       | east beach   | 33 | 51         | 77 | 58          | survey not site specific                        |
| 6/7/2006 | Piping Plover          | 0  |   |  |       | mid and rising tide  | 33 | 51         | 77 | 58          | estimate from map:center of larger area covered |
| 7/1/2006 | Piping Plover          | 0  | 0 |  |       |  | 33 | 51         | 77 | 58          | survey not site specific                        |
| 6/6/2007 | Wilson's Plover        | 1  |   |  |       | North End of Island; non committal - possibly just a single male   | 33 | 54.428299  | 77 | 56.90650177 | estimate from map:center of larger area covered |
| 6/6/2007 | American Oystercatcher | 4  | 2 |  |       | N end of Bald Head Island - 2 pair on beach - appear to be finished nesting  | 33 | 54.428299  | 77 | 56.90650177 | estimate from map:center of larger area covered |
| 6/6/2007 | Wilson's Plover        | 4  | 2 |  |       | South Point; one territory had nest with 3 eggs; other had agitated adults   | 33 | 50.5974998 | 77 | 57.74449921 | estimate from map                               |
| 6/6/2007 | Wilson's Plover        | 16 | 8 |  |       | North End of Bald Head Island - defensive behavior   | 33 | 54.428299  | 77 | 56.90650177 | estimate from map:center of larger area covered |
| 2010     | American Oystercatcher | 2  | 1 |  |       | Observed by Emily Rice (waterbird biotech)   |    |            |    |             |   |
| 2011     | Wilson's Plover        | 6  | 3 |  |       | Observed by BHIC.  |    |            |    |             |   |