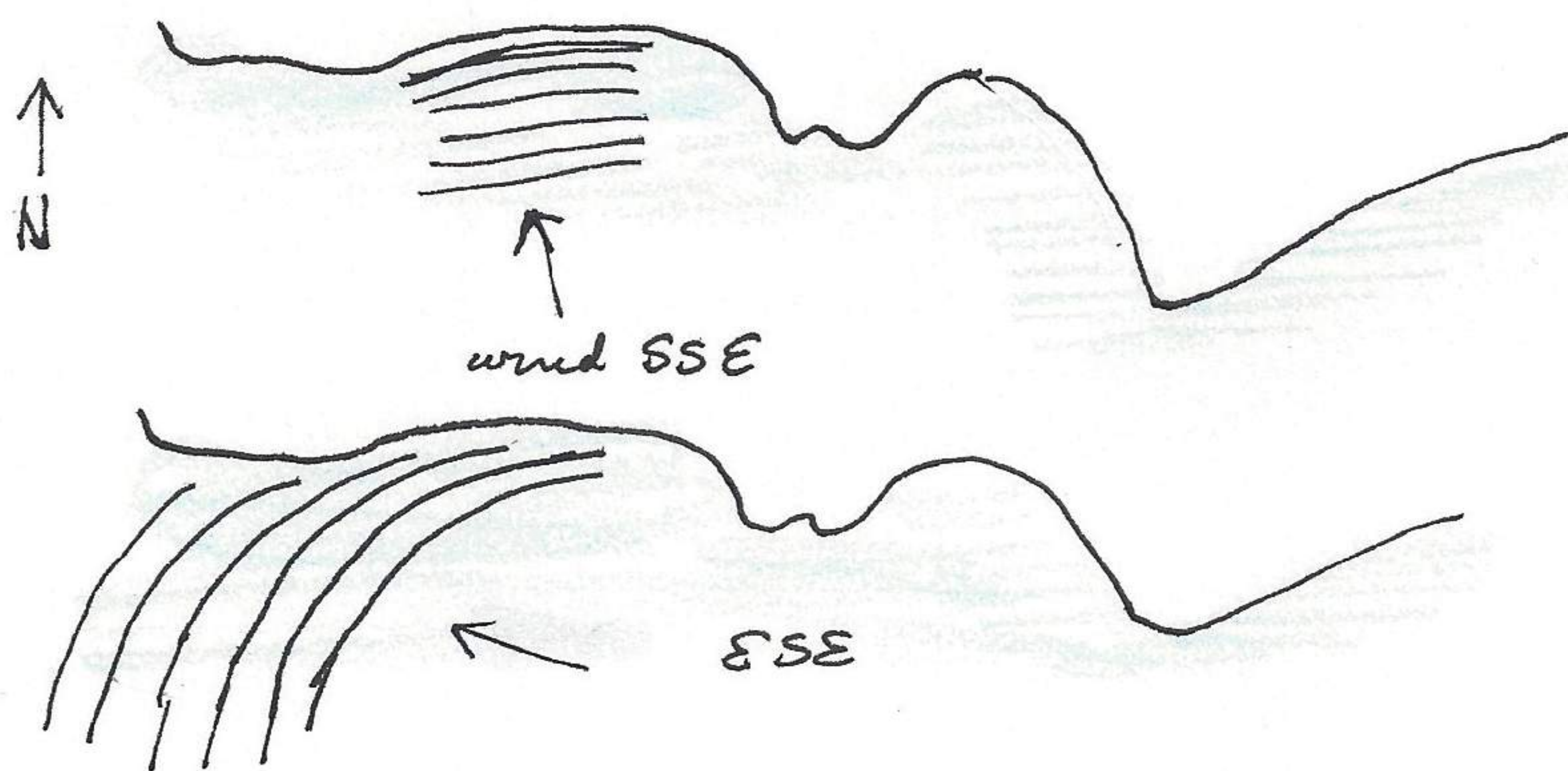


12:00 noon 50 waves at 2'31" cresting on beach or 1 wave in 3.1 sec.
 50 waves in out research area at 2'48" or 3.3 sec per wave.
 12:10 photo 860110-1 of wave action in research area.
 Change of waves this A.M.



There was a period when both wave patterns were superimposed and each maintaining their identity.

Observed Common goldeneye, 25 feet from beach in approx 4' of water, make the following dives (periods of submergence).
 21, 21, 24, 18, 24, 21, 20, 22, 28, 27, 23, 25.

Observed a Barrow's goldeneye, 15' from beach in approx 1 1/2' water make the following submerged dives. 11, 18, 11, 11, 11, 11, 16, 15, 11, 18-14, 16-16-13-20.

1:15 50 waves in 2'30" or 3.0 sec interval of wave.

1:30 " " " 2'36" or 3.1 sec " " " ; Both above of waves breaking on shore. At 1:30 the muddied waters were out 150' from shore. High tide waves break near to shore than in periods of flow or ebb from maximum slack.

Length or interval between waves ranged from 2.6 sec to 3.3, the higher the value number the greater velocity of the wind, for example a 3.3 is equivalent to 3' waves with intervals of

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Temp 38°F at 7:00 A.M. Checked on periods of submergence of birds 9:00-10:00 A.M.

red-breasted merganser 35, 33, 34, 37, 31, 32, 35, 40, 37, 34, 37, 30, 27, 28, 30, 27, 29, 28, 29, 32, 27.

bufflehead: 30, 25, 27, 27, 28, 25.

double-crested cormorant 38, 33

horned grebe: 44, 45, 41, 43, 45, 41, 42, 41, 39, 32, 31, 33, 30, 35, 31, 35, - 38, 35, 34, 35, 35, 38.

red-throated loon: 52, 51, 56, 58

red-necked grebe: 23.