

Jan 10, 1986

Temp. 8:00 A.M. 50°F, measured some waves at this time as they crested on beach in front of the Barth.

8:05 50 consecutive waves in 2' 19" (2 minutes seconds) or 1 wave every 2.8 second.

50 consecutive waves in 2' 22" or 1 wave every 2.8 sec.

" " " " 2' 23" or 1 " " 2.9 sec.

" " " " 2' 21" or 1 " " 2.8 sec.

" " " " 2' 23" or 1 " " 2.9 sec.

9:10 AM

" " " " 2' 11" or 1 " " 2.6 sec.

" " " " 2' 14" or 1 " " 2.7 sec.

Occasional white cap wind ESE, wave generated wind from SSE.

Log ride 90° waves with tide and end of log faces wind, but ridges currents

at 90°. Wind blowing all Conifers to top of Hope Island at about same intensity.

9:10 horned grebe to E swimming and feeding. muddied waters out to 10' from shore. This will increase in with to 150' with increased wind.

9:50 2 bald eagles soared about 1500 above Hope Island and finally left to N.W.

9:51 a skua chased a glaucous-winged gull in research area.

10:00 50 waves in 2' 12" or 2.6 sec.

10:10 2 bald eagles circled 3x height of Hope Island and may be same ones as observed 9:50. Many gull flying high today because of high wind.

Common goldeneye dove for 22 sec. on two consecutive dives
horned grebe submerged for 27 sec. Common goldeneye dove for 21 sec.

10:40 Before gusting winds waves 50 in 2' 37" or 1 wave per 3.1 sec.

10:45 during a gusty wind, 50 waves in 2' 35" or 1 wave 3.1 sec.

10:55 harbor seal, retracted head backwards in water when submerging. Head not as blotched as individual previously observed in area.

11:00 50 waves in 2' 28" or 2.9^{sec} per wave.

Waves have changed from $\uparrow \equiv$ to $\parallel$ in research area.

11:05 common goldeneye dove for 14 sec,
25 sec and 20 sec, horned grebe for 27 sec.

11:30 50 waves at 2' 48" or 1 wave in 3.3 sec.