



(the one with 38°) Female, Barrow's goldeneye has yellow bill in contrast to black of males. Barrow's goldeneye head with head  common more perpendicular . Profile of head not noticeably different.

Pelagic cormorant head and neck all black, thin bill, neck is perpendicular to water and straight, head & bill horizontal and 90° to neck, most of the time.

water ^{at} top of reptile head at 11:10 A.M. and at base of stick marker. At high tide, kelp beds between here and Hope Island disappear. Tide maximum approx. 11:20 A.M. ^{Flow} at 11:29 A.M. dropping about 1/2" from maximum. at 11:34 down approx. 3/4 inch. water, as always moving W past beach below Barth. Out waters move E or W according to ebb or flow. At 11:40 reptile head being exposed. at 11:45 minor riptides 60' out from shore and going W. although tide down an inch or so from stake, the waters are moving ^{E on} faster all across channel. all birds facing ⁱⁿ moving waters. Long meandering lines E-W of smooth water are used (edges) by ducks. These ducks (Widgeons) are moving W with current and are feeding on surface only. 12:02 tide still moving W on what would be considered flow. apparently the flow of water reverses sometime after maximum high 1:11 P.M. currents to beyond kelp (middle channel) going W. Some beyond may? be going E. Tide out 10' from shoreline below Barth.

Surf scoters ~~are~~ mainly observed in middle of channel between here and Hope Island or in middle of Skagit Bay to SE or E. as are the common loon and cormorants.

water in Skagit Bay at ebb almost mirrorlike and not much evidence of ^{tidal} movement. Just before maximum high water flow increased as it flowed to W. This continued to increase all during what would be considered slack water. Slack was continuous rise to maximum then without pause began flowing. Tidal movement & maximum high are not synchronized.

Dec. 20, 1985 (all observations will be within 150' of water line)

7:30 A.M. fog, visibility 150', temp 37°F, slight ripple on water, wind from SE. At 7:30 A.M. tide already ebbing. First gull ^{flying E at} 7:45 A.M.
7:50 great blue heron alighted on emergent rock approx 20' out from edge of water. (1 1/2' high), checked rock then hunched neck on shoulder and rested. 7:55 first common goldeneye (2), 7:56 first sm. widgeon (1), 7:58 1 common goldeneye & gull flew W. 8:05 horned grebe, gull swam E.