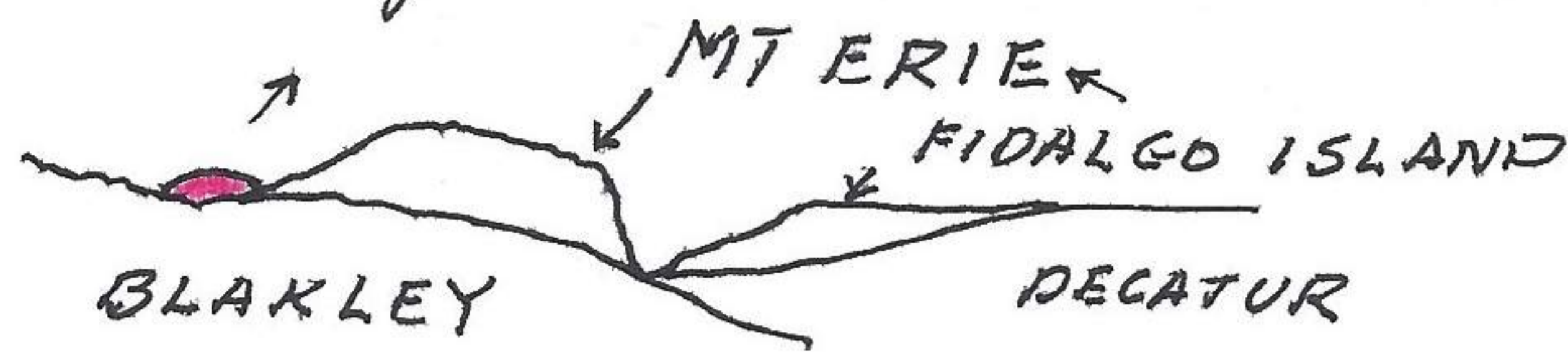


Jan. 19, 1992

Sunrise as view from BEE HOUSE on Humphrey Head, Lopez Island.
at 8:03 A.M.



Jan 21, 1992

3:05 P.M. 5 harbor seal, 63 pelagic cormorant, 4 glaucous-winged gulls, 6 common mergansers, 1 marbled murrelet fed together in sound between Bee House and Lopez Island (halfway). The seal were both among the cormorant as well as outer edge.

2 adult bald eagles on Flower Island (1 foot apart). ^{bold} no eagles on nest NE Frost Island.

Jan 22, 1992

1:30 P.M. W side Fisherman Bay Causeway (in San Juan Channel) 4 Harlequin ducks, 2 ♂ 2 ♀. On E side F.B. Causeway in SE Fisherman's Bay Lagoon, 12 glaucous-winged gulls, 8 mew gulls, 4 buffleheads, 11 ^{northern} pintail ducks, 7 mallards, 25 lesser scaup ducks. At Hummel Lake, 24 Common mergansers in 3 groups, 4 Barrow golden-eyed ducks, 1 sharp-shinned hawk. at 1916 School on E side road in open field 45 mallard, 9 northern pintail ducks. Field have pools of water at this time of year. neither pond at E end Cross Rd or Lagoon (Swift) had ducks. Swift Bay (Low Band), 27 lesser scaup, 10 American widgeon, 12 mew gulls, 6 glaucous-winged gulls. at Humphrey Lagoon 2 bufflehead duck, since gates have been put into lagoon there have fewer bufflehead.

Jan 24, 1992

at 8:00 A.M. 1785 pelagic cormorant were first observed E of Bee House at approx. 3/10 mi. from shore. Estimate by units of 50 counted birds. As they were not feeding at the time, ^(only one in 100 diving) all birds were on the surface. Their forward progress by rear birds flying to forward position. There was also birds flying from lateral positions to the lee side of 2/10 mi. raft. ^(in part) The movement was straight forward.

In the next 3 hrs, they had travel by swimming 117 miles or .57 miles per hour. (from in front Bee House to Red Swift Bay back to Flower Island)

Day cloudy, no sun, water calm to slight breeze. Temp 50°F. no other diving birds were associated with the cormorants. 6 to 20 gulls, (50% glaucous-winged gulls, 20% mew) accompanied the raft but not interacting as they do in fishing activity of the cormorants. 1 or 2 harbor seals