

JOURNAL 1992

JAMES W BEE

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.

Jan 1, 1992

3:35 P.M. 4 river otter swam n past Bee House. 8' from shore. Waves approx. 1 1/2' high.

Jan. 7, 1992

10:12 A.M. 3 river otter-swam n past Bee House. 10' from shore.

Jan 9, 1992

2:30 P.M. a single harbor seal fished approx. 100' E of Flat Point S of Spring Cove. As it surfaced it vigorously captured small fish, 2"-3" long, that had been forced to the surface by the seal. This compact ball of minnows sprayed into the air in an area approx. 5' in diameter. The seal repeated this action 3 times during which time (40-50 seconds) 8 double-crested cormorant and 9 common mergansers arrived. The mergansers within a few feet (4') of the ball of fish and instead of gliding to a surface stop, plunged directly into ^{and under} the water. In 3 minutes there were 42 double-crested cormorant, 18 pelagic cormorant, 12 common mergansers, ^{1 arctic loon} and 6 glaucous-winged gull, all vigorously churning the water in the area of the minnows. After 3 minutes the seal disappeared and in 5 minutes the cormorants became dispersed, the pelagic cormorants maintained a close group unity, and in 10 minutes the area had been deserted.

4:00 P.M. 3 river otter swam n past Bee House, fishing as they travelled n.

In P.M., Swift Lagoon, Humphrey Lagoon in ice. Hummel Lake open. 18 northern pintails sat on ice in middle Swift Lagoon, 11 others on shore.

Jan 12, 1992

2:00 P.M. adult bald eagle sat on nest NE Frast Island. It remained 1/2 hr.

4:15 P.M. a great blue heron flew nE past Bee House at 10' above water. It continued E toward Blakely Island, gaining altitude. At 1/3 way across the sound it circled back and flew SW over Bee House at height of Humphrey Head. I have also observed American Crow to fly out over water + circle to return to bird feeders higher on the head.

at low tide the submerged bench appears above water shortly after Leo Reef Rock no 11.

at 3:00 P.M. Leo Reef 1 harbor seal, 35 double-crested cormorants.
at 4:30 P.M. as lights fade. no seal or cormorants on Leo Reef.

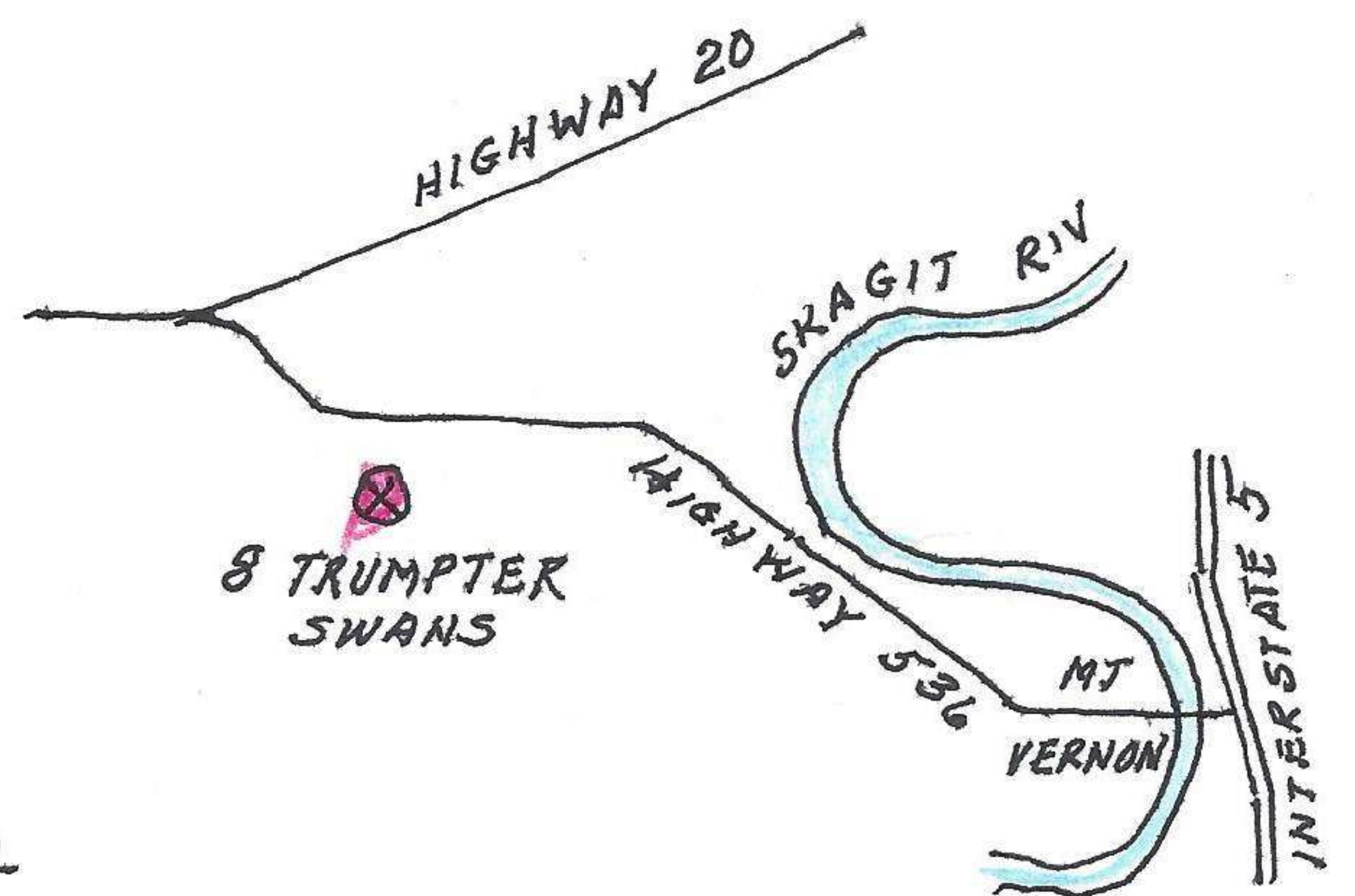
Jan 13, 1992

at Lopez Island ferry terminal at 7:45 A.M. when morning lights weak, observed adult bald eagle circling terminal bay between ferry landing & N end upright head. It circled low (30') 4 times.

7:52 A.M. Left Lopez Island for Anacortes. Will keep complete census. 2 pelagic cormorants, 1 pelagic cormorant, 12 mew gulls, 8 cormorant below Bee House. Leo Reef just emerging, no cormorant or harbor seal. 5 common murres Willow Island. Pigeon guillemot, 2 bufflehead ducks, 4 marble murrelets, 8 common murres, 11 common murres, 6 glaucous-winged gulls. W Thatcher Pass. groups of 4, 6, 8 common murres, 2 marbled murrelets, 3 rhinoceros auklets, 4 rhinoceros auklets, glaucous-winged gull. middle Rosario Straits. 2 double-crested cormorants. Arrived Anacortes.

Observations on marsh Point Road between Fidalgo and Podella Bay. At S end Fidalgo Bay groups of 85, 25, 8, 7 lesser scaup, no birds on W side peninsula from here to N end. Across N end 8 lesser scaup, 7 lesser scaup, 14 bufflehead ducks. From NE mark Point with binoculars can see approx 150 brant mainly in singles or 4-5 and generally distributed in length and width of bay. They increase in number from Hat Island S to S end Podella Bay. On east side of Podella Bay approx 2,000 brant in long narrow raft paralleling shore. 1 bald eagle at marsh Point,

on highway 536
NW Mt Vernon observed
8 trumpeter swans resting
in field.
Returned to Lopez Island.



Jan. 14, 1992

at Bee House observed that common mergansers move faster and greater distances than other marine birds in the area. When there is minnow activity 10-12' ahead they will paddle and flap wings to more rapidly reach the activity.

Approx 120 double-crested cormorant rest on Leo Reef and remained today until afternoon, ^{2:30 P.M.} No harbor seal used the reef. When they do the numbers are generally below 8.

no bald eagles at nest on Frost Island, one ^{ad.} resting on Flower Island.
after 2:30 P.M. no gulls, cormorants or harbor seal on Leo Reef.

Jan 15, 1992

10:30 A.M. 16 Common mergansers feeding in front of Bee House, all ♀.
 On an average 50-60 American crows make trips from Swift Bay to Bee House to feed on cracked corn and wheat.

♂ mule deer with 2 antlers each side and left eye line smaller than right. It measured 35" high at shoulders. This buck has been a regular visitor all winter and other times. An orphan of last summer with rear hoof pelage just changing into winter pelage and is spotty.

10:00 No bald eagle nest NE Frost Island.

2:30 no cormorant on Leo Reef ^{or seal (harbor)} but 46 pelagic cormorant in fishing group between Leo Reef & Bee House. The pelagic cormorant are the dominant cormorant in area and are in sound as fishing groups on a daily basis at least during latter part of Dec. & Jan.

no bald eagle on nest NE Frost Island but 2 on Flower Island.

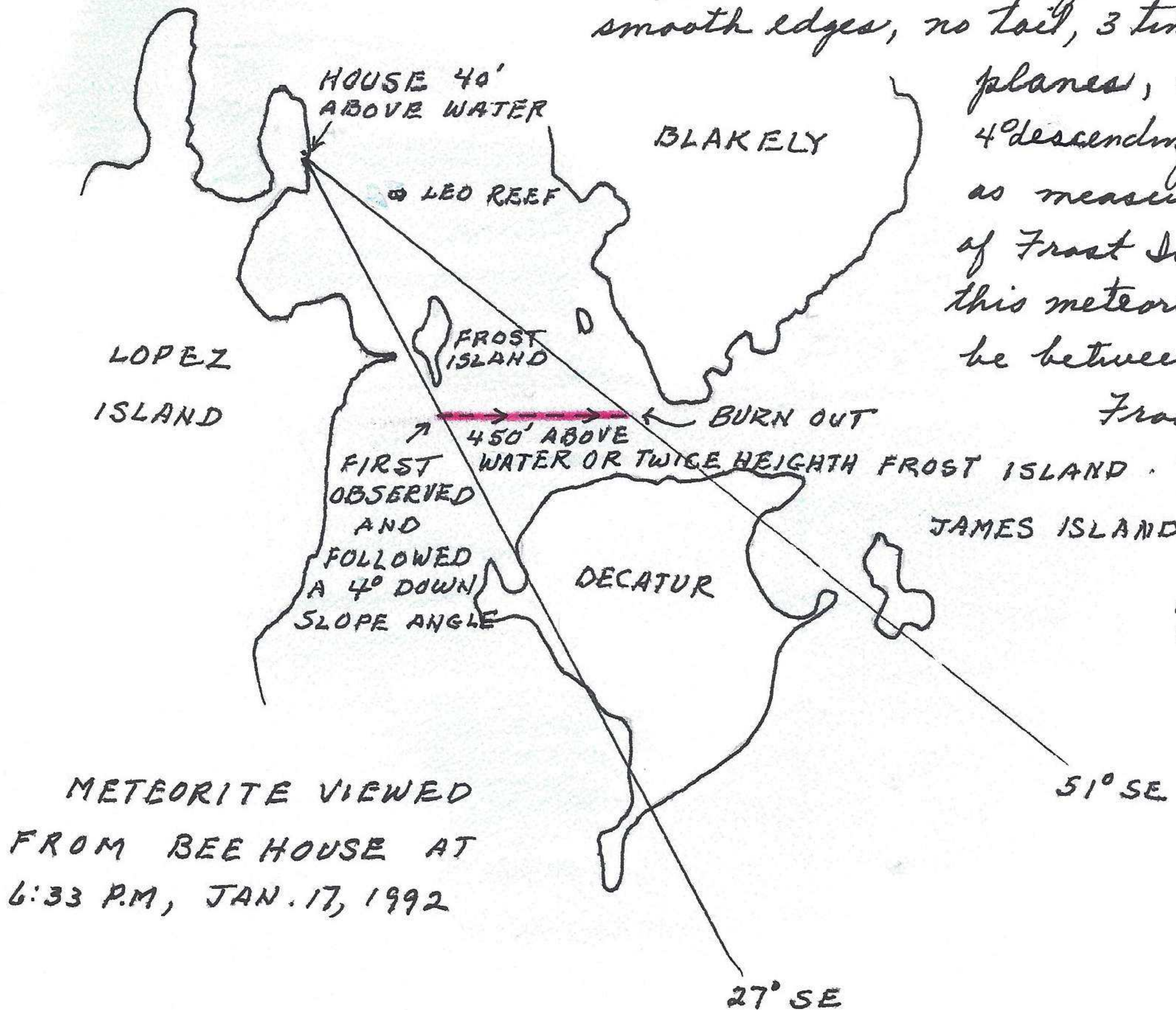
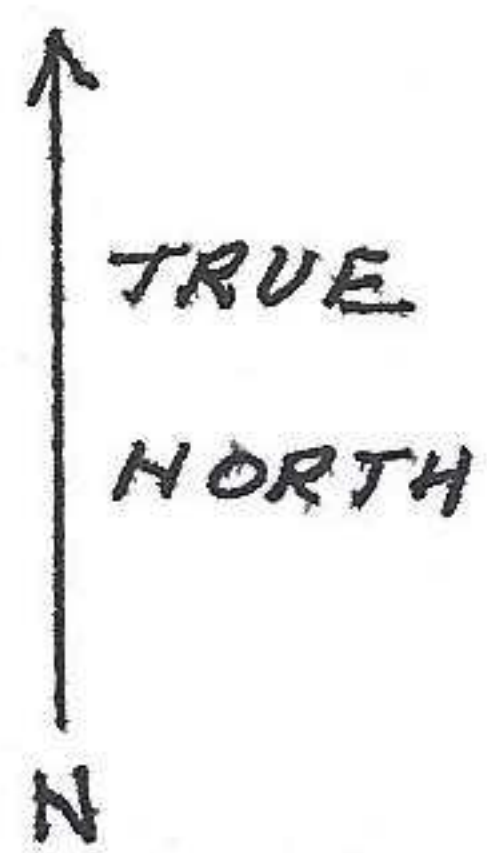
Rufous-sided Towhee fed 2' from mule deer.

Kingfisher observed on an average (Dec. Jan) 1 every 3 weeks.

Jan. 17, 1992

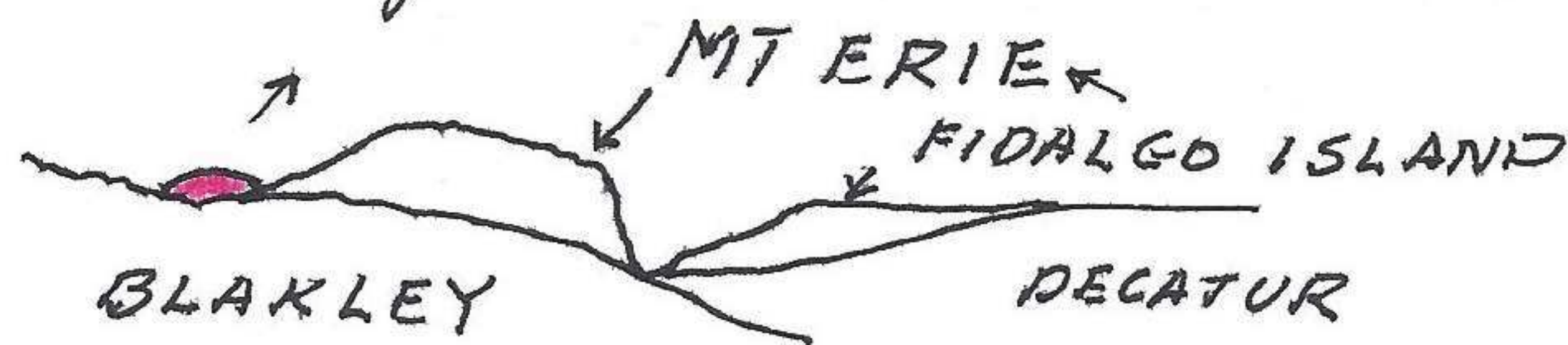
From Bee House on N side Spring Cove on Humphrey Head, Lopez Island, observed ^{at 6:33 AM} a meteorite as diagramed below. It was a sphere, 3x size of a landing light of plane at 1 mi away, solid bluish-white, smooth edges, no tail, 3 times speed of jet

planes, burn-out 3 seconds, 4° descending angle, 450' high as measured from height of Frost Island. Although this meteorite appeared to be between Heleator and Frost Island it was obviously farther away, perhaps a 100 miles or so.



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

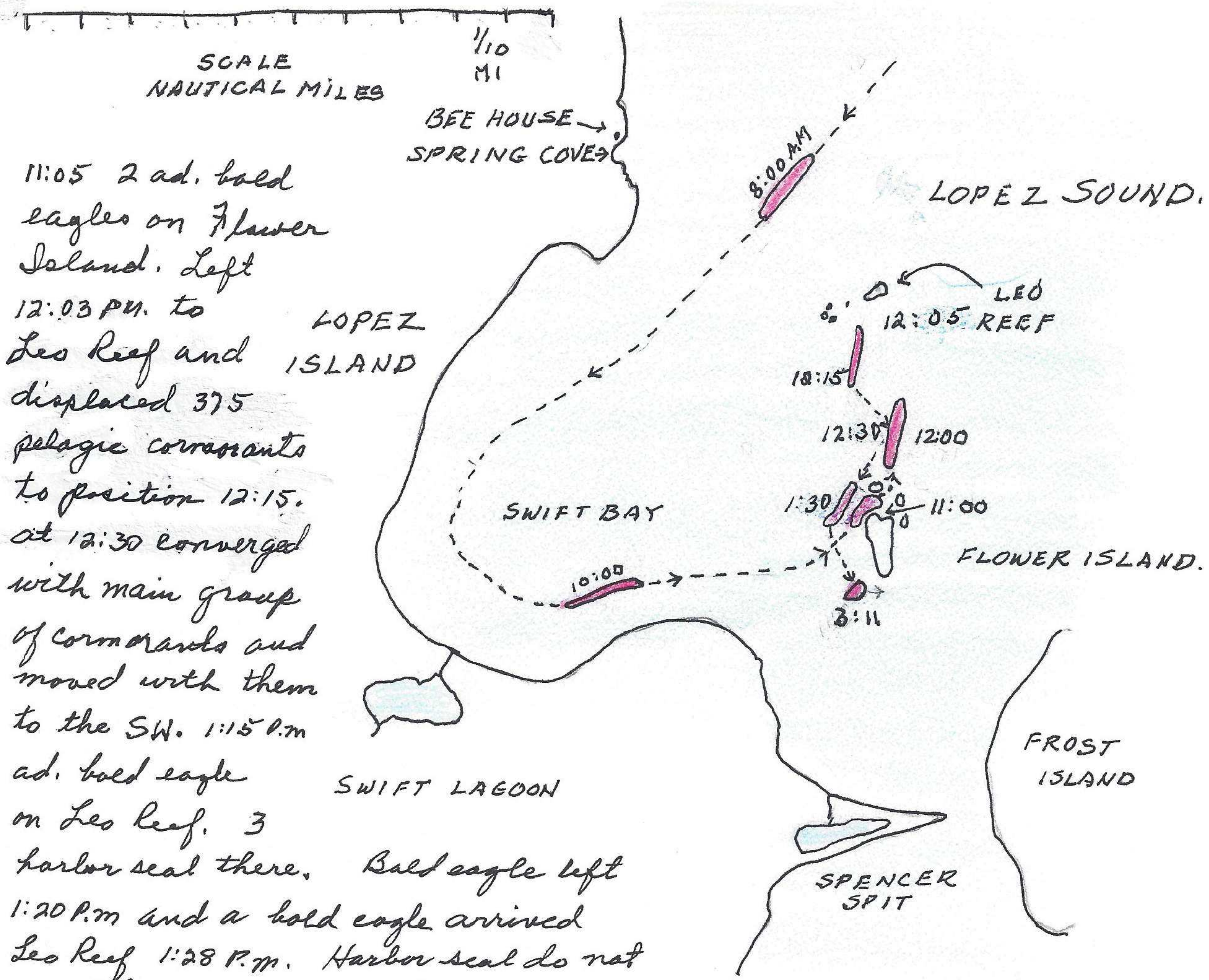
1:30 P.M. W side Fisherman Bay Causeway (in San Juan Channel) 4 Harlequin ducks, 2 ♂ 2 ♀. On E side F.B. Causeway in SE Fisherman's Bay Lagoon, 12 glaucous-winged gulls, 8 mew gulls, 4 buffleheads, 11 ^{northern} pintail ducks, 7 mallards, 25 lesser scaup ducks. At Hummel Lake, 24 Common mergansers in 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 9,100 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. ^(in part) west. 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

occasionally observed associated with the cormorants. The following map and information relates to this group of pelagic cormorants from 8:00 A.M. to 4:19 P.M.



11:05 2 ad. bald eagles on Flower Island. Left
 12:03 PM. to Lopez Island displaced 375 pelagic cormorants to position 12:15. at 12:30 converged with main group of cormorants and moved with them to the SW. 1:15 P.M.

ad. bald eagle on Leo Reef. 3 harbor seal there. Bald eagle left 1:20 P.M. and a bald eagle arrived Leo Reef 1:28 P.M. Harbor seal do not react to presence of eagles. 2:00 P.M. to harbor seal Leo Reef. 2:25 P.M. 7 harbor seal Leo Reef. 3:56 P.M. eagle left Leo Reef. Without eagle interference Leo Reef would ordinarily support 300-400 cormorants and this resting & drying site; may be one reason the pelagic cormorants are in the sound. At 3:30 P.M. a speed boat from Spencer Spit to Humphrey Head displaced all pelagic cormorants and as usual the pilot of boats have no appreciation of community organization of birds and animals and in fact divert their course to directly harass the birds. The main raft of cormorant left water, flew 2/10 mi. to N, circled and reorganized in small random groups in the sound, ^{approx 700, continued N.} at intervals in the next 45 minutes all the cormorant had left the area and moved, by flight, to N. 3:56 P.M. 81 cormorant moved N. 3:57 5 cormorant flew N. 3:59 142 cormorant moved N. 3:59 P.M. 180 moved N. 4:00 P.M. 158 moved N. 4:07 5 moved N. 4:08 6 moved N. 4:12 86 moved N. 4:13 24 moved N.

4:15 P.M. 16 cormorant flew N. 4:19 P.M. 21 cormorant and last to leave.
 5:00 P.M. 9 harbor seal Leo Reef. The last hr. was a period of light shower from S.

When a raft of cormorant changes to linear pattern there appears to be fewer birds and should be taken into consideration in estimates.

At 2:35 Leo Rock no 9 is just emerging.

The pelagic cormorant today were spending 10% of their time in active group fishing. The rest of the time was in passive swimming in straight directions. Large groups of cormorants have the advantage of minimizing gull harassment.

Increase gull activity (glaucous-winged gulls) in area of Flower Island.

Did not see pelagic cormorant directly in front of Bee House but those cormorants there were double-crested. At 2:22 P.M. 20♀ and 3♂ Common mergansers alighted in front Bee House (75' out from shore, preened feathers for 4 minutes then left. 2:25 P.M. 23♀ and 4♂ Common mergansers arrived and landed in a long line, without close grouping they left in 5 minutes toward Swift Bay. Neither group attempted diving.

Jan 25, 1992

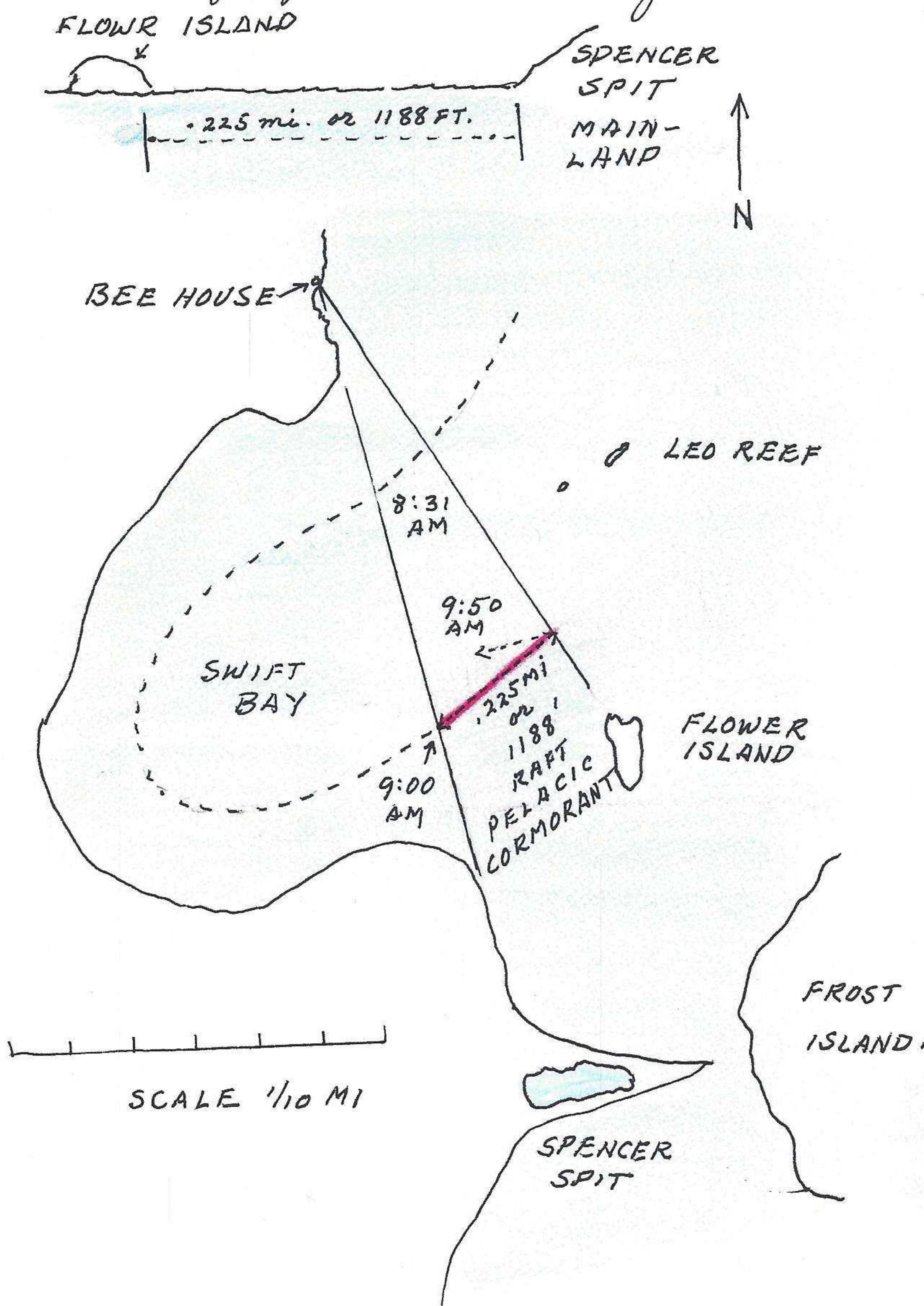
4:00 P.M. 16 harbor seal and 28 pelagic cormorant on Leo Reef. 4:14 P.M. most pelagic cormorant that feed and rest in area during the day have left (last 1/2 hr.) in groups of 2 to 100 and all flying N, generally forms of single lines with variable distances between birds but coverage 3 feet, all as near to water as possible. One group 3 flew N at approx. 150' high. Flying low has the advantage of immediate underwater escape if attacked from overhead. 4:50 P.M. Last of pelagic cormorants to leave. Those on Leo Reef leave at latest time. I have observed that pelagic cormorants arriving at Leo Reef approach from 3 different techniques 1, glide on water & then climb onto reef, 2, drop onto water and at the same time wing splash on water and glide onto reef. and 3, alight directly on reef.

Earlier at 2:25^{P.M.}, there were 125 cormorant and no harbor seal on Leo Reef.

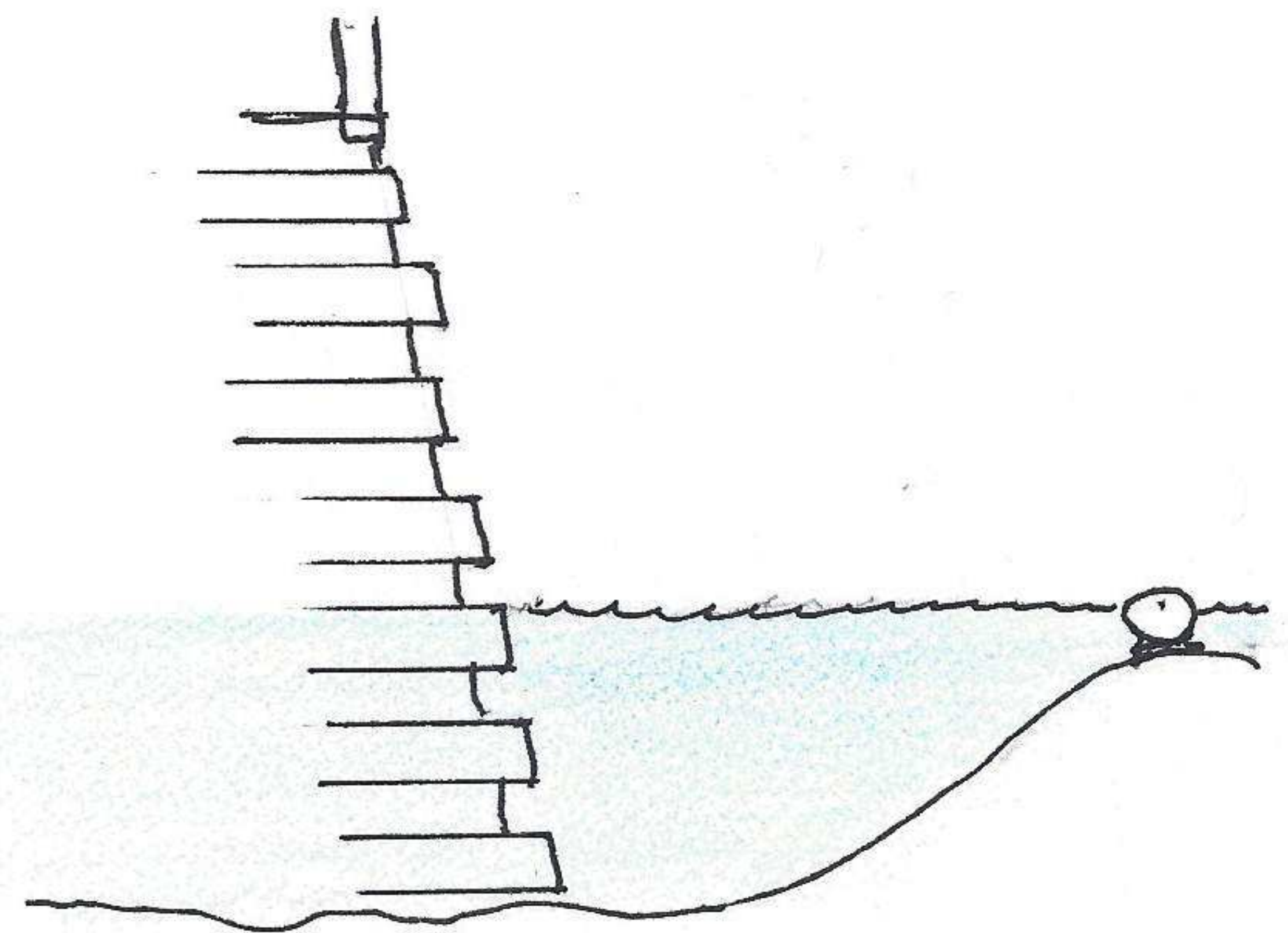
Jan 28, 1992

Cloudy. at 8:31 A.M. a raft of pelagic cormorants passed S. Bee House by swimming but mainly by raft hopping of rear birds flying over raft and taking up head positions. It took only 1/2 hr. to each end of Swift Bay at which point they turned and headed for Leo Reef out from

in single file of 1 to 6 abreast
 The actual count of individual birds was 1908. The line was straightforward, swimming and no diving, or raft hopping.



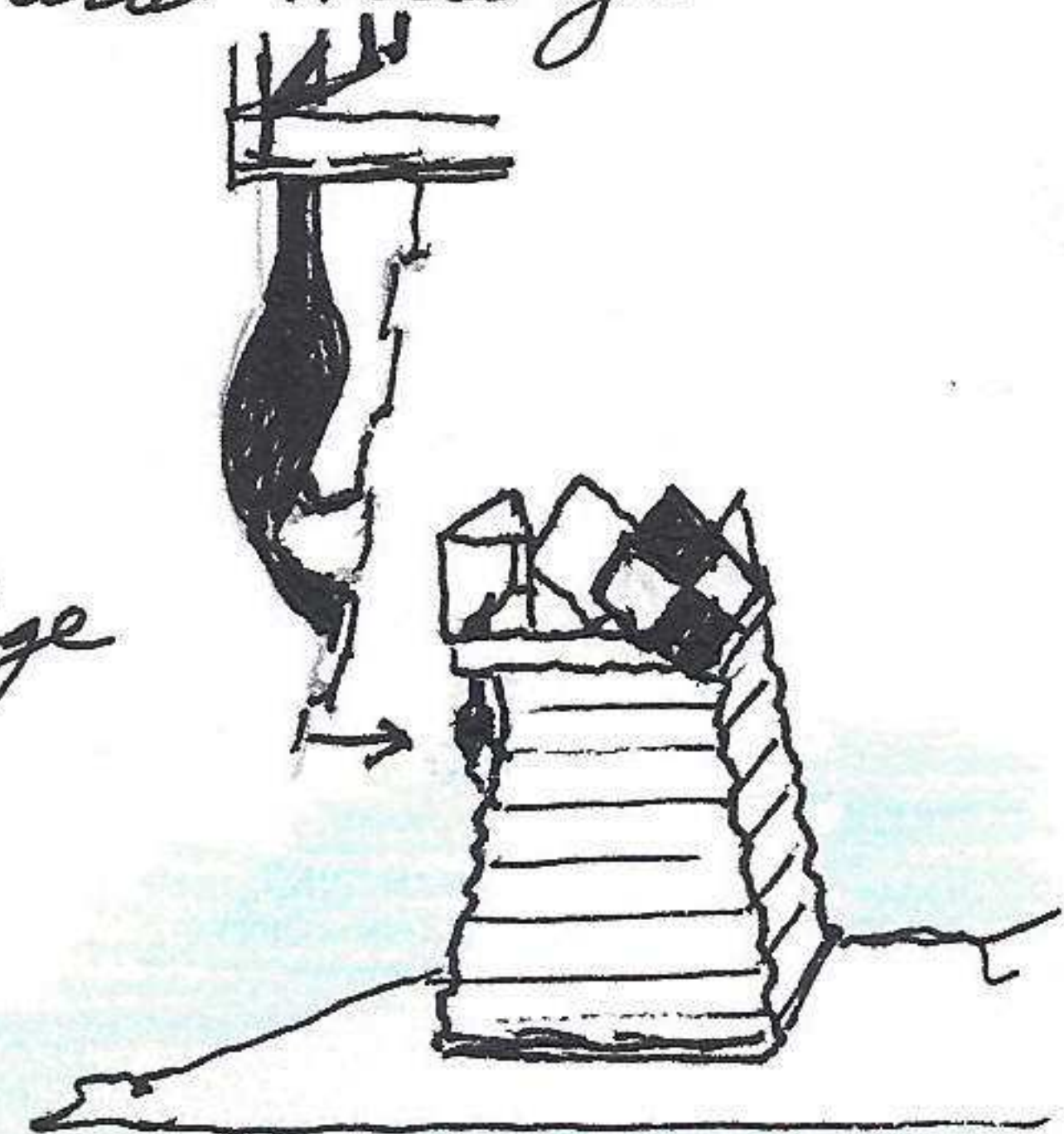
As they approach the ^{island} area between Flower + Leo Reef the front of the line began to consolidate and form a circular mass. From that point they moved w back into Swift Bay. At 9:00 A.M. 50 or more birds flew to Leo Reef before the reef was exposed (high tide) but swam around area. at 10:30 A.M. Leo Reef thus:



10:20 A.M. In visible area between N end Willow Island, W end Thatcher Pass, N direction W to point where E side Frost Island blocks view to NE side Frost to Leo Reef counted 53 logs over 12' in length. All other logs and wood debris below 12' was 212. 33 of the large logs had cormorant and gulls (80% glaucous-winged and mew gulls and 20% Cormorant.)

Jan 29, 1992

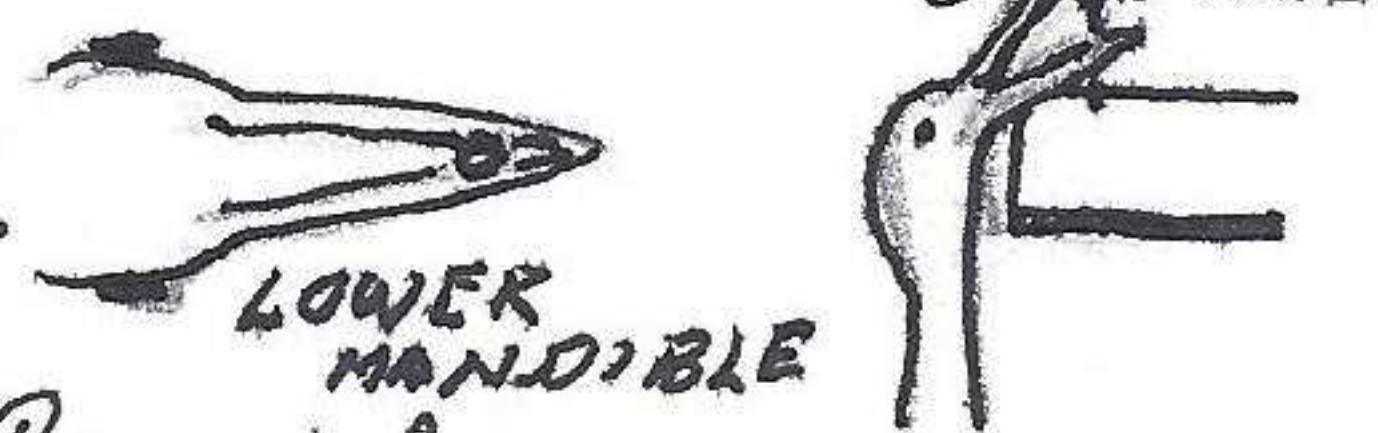
2:10 P.M. double-crested cormorant caught by head at edge of ^{NE side} platform of Leo Reef light beacon. Cormorant active by wing flap & feet treading. checked 2:35 P.M., 3:40, 4:10, 4:15. 4:20 last pelagic cormorant left Leo Reef + flew N. 4:45 to 4:50 gradual increase in gulls to 48. 5:00 P.M. Cormorant still



alive and occasional flapping wings and foot treading. Gulls now number 97, same number harbor seal. Light fading and animal difficult to see.

Jan. 30, 1992

11:12 A.M. Pelagic Cormorant caught on Leo Reef beacon platform still alive and flapping wings and foot treading. Reported to Wolfhollow Wildlife Rehabilitation Center in Friday Harbor. 11:40 A.M. pelagic cormorant released from Leo Reef Light beacon. Lower mandibles pierced by nail as bird fluttered down from rail.



Bee Estate, Humphrey Head, Lopez Island, San Juan Co., WA.

Feb. 2, 1992

10:30 A.M. 2 river otters swam and fished 5 past Bee House. Ordinarily otter swim and fish together but in this case one followed 100'-150' behind leading otter. Waves 1 1/2 - 2' high and otter rode the contours of the waves rather than dip under each wave. In rough water, more of the head, body and tail are exposed.

at the same time 103 mew gulls (80 ad, 5 second year, 18 last year) hunted and fed on surface material into wind, creled to entrance of Spring Cove and then repeated operation. Occasionally they all rested on water at mouth ^{Spring} Cove. On three occasions while resting on water, they all left instantaneously, formed compact unit and flew NW 100'-200' and alighted again, then later returned to hunting out from cave. Tails of several mew gulls are:



10:45 A.M. First Townsend chipmunk this year. Fed one hour and did not see for rest of day. Appeared in good health and normal pelage. 5 bald eagle sightings today (2 im, 3 adult) 2 adults have been on Flower Island most of day.

Feb. 3, 1992


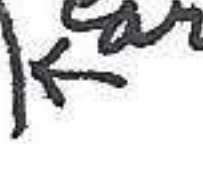
4:00 P.M. 31 harbor seal on Leo Reef and most observed this winter. Day 58°F and unusually calm and cloudless. First good day after about 2 weeks of rain and cloudy weather.


2 ad. bald eagles together Flower Island. 1 ad eagle 100' SW of nest on NE Frost Island. No Townsend chipmunks today.

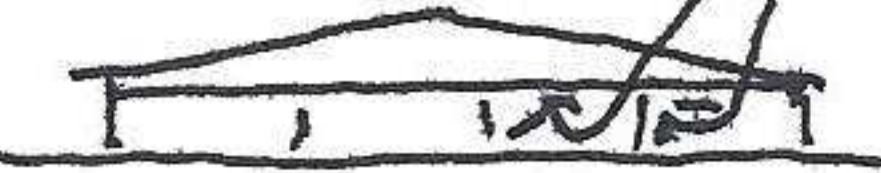
Feb. 4, 1992

Index finger 25 mm wide.

8:15 A.M. River otter swam S past Bee House. Sound calm.

10:57 A.M. Left Lopez Island for Anacortes. Right, front position on ferry  and can see straight ahead and 45° to left and right.  made census of all birds out to 200' ahead of ferry: 2 harbor seal, 1 mew gull. 11:03 A.M. Check right beyond to Les Reef and there, 11 harbor seal, 9 cormorants sp.?, In main channel again 3 mew gulls, 2 common murre, 3 mew gulls. 11:06 A.M. Willow Island, 3 common murre, 1 pelagic cormorant, 10 mew gulls, 1 med-necked grebe, 11:11 A.M. W Thatcher Pass, 1 double-crested cormorant, 1 double-crested cormorant, 1 mew gull. 11:14 A.M. E end Thatcher Pass, 18 mew gulls, 3 double-crested cormorant, marbled murrelet, 8 bufflehead, 1 common murre, 1 pelagic cormorant. 11:21 SW Cypress Island. 1 common murre, 11:28 pigeon guillemot, 1 common murre, 2 double-crested cormorants, 6 mew gulls, 4 glaucous-winged gulls. Arrive Anacortes ferry terminal 11:33 A.M.

Continued to Chris' at Lost Lake. At $\frac{2}{10}$ mi W of second curve west of Arlington  approx. 400 mew gulls attracted to farmyard spray fertilizer rotating and cast out fertilizer to approx. 200 feet. As spray approached gulls they flew out around and returned to lee side of spray column to feed on fertilizer debris. about $\frac{1}{4}$ of the flock participated at one time in the maneuvers.

at the Monroe prison farm (mainly cattle) E of Monroe, wa, between 5:13 and 5:22 approx 1,000,000 starling entered a large open-sided cattle barn . The starling arrived from all directions in large groups of 100 to 1000 birds, circled the barn and on each round a part of the flock would drop off 150-300 birds which would drop abruptly down to and around open side to the shelter under roof. I could not hear bird calls from 300' away.

Continued S across Snoqualmie River to High Bridge Road & thence W to Lost Lake at Chris.

Feb. 5, 1992

This A.M. to Univ. Washington and thence home on Lopez Island.

Feb. 7, 1992

7:50 A.M. 4 river otter swam fished and swam S past Bee House. at Flat Point one otter ascended rock, ate wormlike animal.

The other 3 remained at base of rack or in water until the one on land finished feeding (2 min), then all left together to S.

at 11:15 A.M. to Anacortes by ferry from Lopez. Birds on willows. Bald eagle (ad) n end Flower Island. at Lawson Rack 18 pelagic cormorant, 6 common cormorant, 6 red-necked merganser all as one fishing group. Birds uncommon today and other than above, 2 common murre, 6 marbled murrelets, 11 mew gulls, 2 glaucous-winged gulls.

Feb. 9, 1992

Left Chris' for Lopez Island. at same place as last recorded (see Dec 24, 1991 for locality on Fir Island Road (red dot no. 6)) observed 33 trumpeters swans, 4 of them in exactly same place as observed on last 2 recorded settings near road. These swans were generally distributed in a plowed corn field. (w marsh point)

at SW part of Fidalgo Bay near highway 20, 42 pintails feeding at shoreline. This area and S end Fidalgo Bay regularly has from 20-400 ducks.

2 redtail hawks across Skagit Valley.

at Anacortes ferry terminal (State), 18 surf scoters, 5 buffle-head ducks, 1 red-necked grebe, 2 mew gulls, 9 pelagic cormorant and 2 glaucous-winged gull. Birds on ferry route.

Left 3:53 P.M. 19 surf scoters, 1 common murre, 4 marbled murrelets, 2 pelagic cormorants, 8 glaucous-winged gulls. 3:52 P.M. Blakely Island. Continued to Lopez Island.

Feb. 10, 1992

1:00 P.M. 28 harbor seal on Leo Reef. no bald eagles in area.

Feb. 12, 1992

12:12 P.M. 13 harbor seal Leo Reef (Rocks 3-4-5) and reef just emerging.

5:00 P.M. 2 eagles (ad.) have been on Flower all day, always separated and occasionally leaving area but returning. Another pair on ⁷ ~~rest~~ ^{on} upper ridge, E of E end Spencer Spit. They in turn are always together in top tree but like eagles above leave for short periods of time. One of the eagles on Flower flew to SW end and at about 6' above water picked up debris and flew to ridge n of Spencer Spit but returned later.

5:05 harbor seal on shore below rocks NW Flower, a second one pulled out 5' away. no eagles ^{all day} at nest NE Flower Island.

Feb. 13, 1992

2:05 - 2:30 A.M. Townsend chipmunk active. This has been the pattern

of activity, out a short time during the day and irregular appearance.

3:20 A.M. - 3:45 P.M. two bald eagles on Flower Island changed positions: once one of Little Flower Rock and the other on north Flower Rock, once two together on N end Flower Island, once one left Flower Island and flew W toward Spencer Spit. 80% of the time eagles can be seen on either Flower Island and outliers, or Frost Island. At one time 2 on W side, ^{Frost Island} 2 on Flower Island. Occasionally one bird will be on or near nest on NE side Frost Island, but at this time of year rarely.

at west side of S Fisherman Bay Lagoon: 12 black-bellied plover generally distributed on outer beach-water contact, 18 western sandpipers, 6 glaucous-winged gulls, 2 surf scoters. On E side of causeway in lagoon, 41 greater scaup, 19 buffleheads, 9 glaucous-winged gulls, 2 great blue heron.

at Swift Bay, 43 american crows, 8 glaucous-winged gulls, 22 mew gulls, 13 greater scaup, 8 bufflehead ducks.

at E end Cross Road at pond, 8 mallards, 2 green-winged teal, 2 gadwalls.

at catchment marsh E of School House 1917, 42 mallards, 4 pintails, 6 gadwalls, 4 american widgeon, 2 shoveller ducks.

Feb. 14, 1992

Townsend chipmunk active for half hour, 10:20 A.M. Pileated woodpecker worked base madrona 1 foot from ground, 80' E Bee House.

Feb. 15, 1992

Townsend chipmunk active 1/2 hr this A.M.

4:00 P.M. 54 ♀ and 7 ♂ Common mergansers alighted in front of Bee House 150' out from shore. They land in a forward line then turned 90° left and formed a long line for fishing maneuver. As they moved toward shore SE of Spring Cove a few birds (3-5) dove and splashed vigorously which attracted all the mergansers to the area by gliding and paddling on the water. Within the small indentation along the shoreline the water actually churned with activity, some of the activity was competing for captured fish.



5:14 P.M. 3 river otter swamp to N past Bee House, 2 of them systematically searched a mass (10-15') of kelp (giant)

Feb. 16, 1992

10:10 A.M. 21 American crows and 1 second year mule deer feed on cracked corn on ground NE Bee House. Both had equal respect for each other, if the deer moved the crows moved away, if the crows moved the deer retracted a few feet. Interval was approx 4'. The eastern gray squirrel and the deer reacted as the deer & crows but interval 3 1/2' apart. 21 crows at same time fed on porch feeder.

12:35 A.M. a lone ♀ hooded merganser swam N to S past Bee House approx 10' from shore. It immediately attracted my attention because of the speed it was swimming. ^{twice speed of normal} It was either injured or seeking protection along the shoreline. It continued to Lichen Point and beyond at the same accentuated speed.

Feb. 21, 1992

8:45 A.M. Townsend chipmunk active and feeding on cracked corn and wheat.

Feb. 23, 1992

at Bee House
9:35 A.M. Lone orphan mule deer last year's young, 25" high at shoulders and lowest in dominance of local herd of 11 deer and 5 eastern gray squirrels fed on cracked corn and wheat on ground NE Bee House. all squirrels fed with deer and each species equal dominance at first with deer mildly striking with front feet and twisting head, but with increased pressure from squirrels, as if organized in planning of harassing and challenging deer, the deer increased dominance with constant thrusts of feet and head wiggling, sometime chasing squirrels out 10' away. The squirrel kept up challenging the deer and worked as close as 4 to contact inches but never, as I have witnessed before jump on deer nose and hang on for several seconds. The squirrels would allow the thrust foot to come within 1" and many times the foot of the deer would brush against the tail and body of the squirrel. This activity lasted 7 minutes and then an adult mule deer arrived and the orphans become concerned about the dominance of new deer and did not challenge the squirrels.

At bird feeder on porch of Bee House, 5 eastern gray squirrel and 37 American crows fed on cracked corn & wheat. When 1 squirrel and 6 or more crows on feeder, crows were dominant. 1 crow and 1 or more than 1 squirrel on feeder, squirrels dominated. 3 crows and 1 squirrel were equal dominance.

11:05 A.M. no bald eagle sighting this A.M. I have not observed harbor seal on Le Reef last 4 days. 28 glaucous-winged gull Flower

Island, 8 of which are territories or at least where they had nested last year. This is the first sign of this activity this year.

10:30 Pete Hanson - Song Wind and 8 fishermen spent last hour trawling and jig fishing 150' E Bee House. Boat from Neah Bay. no catch in that period of 1 hour. 11:30 A.M. still in area.

Feb. 24, 1992

This A.M. at feeding ground for mule deer at Bee House, a two year ♂ mule deer with knob antler bases, displaced 6 other deer at feeder (all females, 1, 3 year old, 3, 2yr old and 2 last years fawns. A dominant ad. ♀ arrived and without challenge

at 11:05 A.M. 4 hooded mergansers fed in front of Bee House ^{area out 160'}. One was injured (see 12:35 P.M. of Feb. 14, 1992). An adult bald eagle flew ^{75' above water} past mergansers and dropped abruptly down to within 20' above mergansers and then gained altitude and dove again and separated one bird from the other 3. The merganser was unable to fly and moved progressively E, diving underwater whenever eagle approached it. It ended up approx 1/10 mi to E where, after repeated diving of the eagle captured the bird and flew to trees on E side Humphrey Head. The eagle pursued the merganser by low angle flight approach or when directly overhead darted down in abrupt change of flight. The systematic maneuver was circle 2 or 3 times to gain altitude and far enough from merganser to produce a fast, ^{straight} low angle dive and then lifted up at a sharp angle if bird dove. The final capture was by fast low angle dive. The flight was circles and straight low angle dives. The entire event lasted until 11:31 A.M. or 26 minutes of continuous pressure of pursuit. During the entire period a glaucous-winged gull and a mew gull harassed the eagle but the eagle did not react to the gulls. Also at this same time were 2 ad. bald eagles on upper ridge of Flower Island.

Feb. 26, 1992


To Anacortes and return. Left 7:55 A.M. Talked to John Saul on ferry. He said bald eagles occasionally observed carrying large limbs past his place and flying to N end Humphrey Head. He does not know where ^{new} nest is located since old one flew down last year.

On mainland alder in Colkins, small flowering trees, white, purple, in full blossom.

On return observed only 6 glaucous-winged gulls & 2 mew gulls.


4:45 P.M. On Lopez Island on beach of Swift Bay, 2 adult bald eagles feeding on debris and one immature bald eagle 20' away.

Feb. 27, 1992

Sunrise 7:17 A.M. at 100's of highest point on N. Thatcher Peak.  → S.

1:40 P.M. River otter feeding leisurely to S past Bee House. At one dive 55 seconds under water.

Feb. 28, 1992

Sunrise 7:16 P.M., south limb of sun at highest point on N Thatcher Peak.  → S.

Feb. 29, 1992

The average numbers of eastern gray squirrels at Bee feeder is 5, rarely 6. Today this A.M. there were 10 and first time the number has exceeded 6. (since 1986). This P.M. only 5 at feeder and included the cut or stubbed ear dominant male.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.

March 2, 1992

Trip to Anacortes by ferry. Birds observed. 1 glaucous-winged gull, 19 common murrelets, 8 glaucous-winged gulls, 11 mew gulls, 2 cormorants (double-crested).

At marsh Point E of Anacortes in Fidalgo Bay just n of railroad causeway, noted ^{a compact group of} 651 brant and about same number of ducks including 25 bufflehead ducks. An adult bald eagle in top tree on east side bay in same area.

at S end of Fidalgo Bay along highway 20 approx 2,000 ducks of several species. On E side marsh Point in Padilla Bay on W side, 18 brant, 82 ducks and 1 immature bald eagle

On return to Lopez Island noted Pointer Island with glaucous-winged gulls generally distributed about every 4-5 feet.

March 4, 1992

⁽¹⁾ The Townsend chipmunk has been observed (since first observed, see journal) every 2-3 days in A.M. and remaining approx 20 minutes in the single visit of the day.

10:30 A.M. 2 ^{ad.} bald eagles W side Frost Island across from Spencer Spit, 1 ad. bald eagle Flower Island. 3 harbor seal Leo Reef.

S March 5, 1992

River otter past Bee House at 4:31 P.M. It was approx 80' from shoreline

4:32 P.M. Adult bald eagle flew S past Bee House at 3' above water and hugging the shoreline all the way which is unusual for the eagle.

6:18 P.M. lights fading and adult bald eagle flew N past Bee House.

March 8, 1992

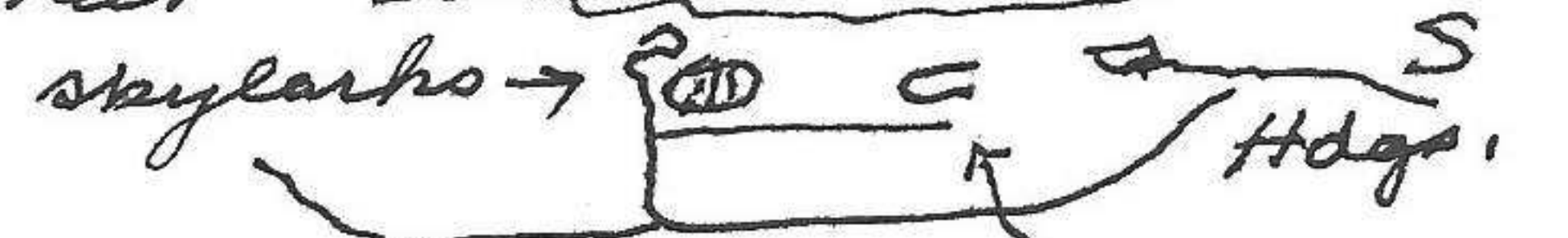
9:30 A.M. 21 violet-green swallows at Hummel Lake on telephone wires N end where they usually congregation in early spring and late summer. First observed this season.

March 11, 1992

To Deer Harbor on Orcas Island, ^{from Lopez Island.} with Dennis and Judy Daley from Lawrence, Kansas and Annette in the Bee Boat. Birds observed enroute: common murre, pigeon guillemot, marbled murrelet, rhinoceros auklet, pelagic and doubled-crested cormorant, common goldeneye, surf scoter, hufflehead and others. Returned to Lopez Island and trilled for salmon but no success.

March 12, 1992

Annette, I, Dennis & Judy Daley to San Juan Island. Left Lopez Island 10:10 A.M. Enroute on ferry observed 21 glaucous-winged gulls, 6 mew gulls, 3 common murre, 11 rhinoceros auklets, 32 pelagic cormorants, 18 surf scoters, 21 common goldeneye ducks, 3 huffleheads and one common loon. Checked ^{At English Camp} Locke Harbor, then return to Friday Harbor where Annette & Judy shopped & Dennis & I to False Bay and American Camp. Ranger informed me that St. Juan de Fuca, skylarks in area as diagrammed:



Domestic rabbits acting like prairie dog and remained near holes in open field for immediate escape below ground. Northern flicker in area and at least 40 American robins. Return Lopez Island.

gun imple-
ment.

March 13, 1992

At Bee House, first morning cloak butterfly of season, Hemiptera in full flight (1 every 2 sq yards).  reddish legs (upper)

10:05 A.M. at Bee House river otter swam n out 10' from shore. An adult bald eagle flew n past house with intralike debris in talons, and flying approx 20' above water. Both Bees and bumble bees active.

March 14, 1992

This A.M. river otter swam n past Bee House. It swam leisurely and fed 9 times on organisms too large to handle in water and required coming to land to manipulate the food. One ad. bald eagle 20' from nest on NE Frost Island, 1 on W side of Frost across from E end Spencer Spit and 1 on Flower Island. I have not observed eagles carrying nest material to last year's nest but have observed one ^{standing} on nest occasionally. Glennis + Judy left for Kansas

March 15, 1992

One adult eagle on N end Flower Island and 1 on S end. In sound between Bee House and Leo Reef 4 harbor seal, 3 on Leo Reef.

Chestnut-backed chickadees visit suet feeder at Bee House twice a day

Rufous-sided towhee at feeder on an average of 1 per day

Song sparrow once per day.

American crows (1 to 45) twice a day.

The orphan mule deer of last year has not changed pelage all winter and spring. Face darker (black) than other deer of herd. This orphan is subdominant to all other deer except deer smaller than she.

At 10:55 A.M. to Anacortes:

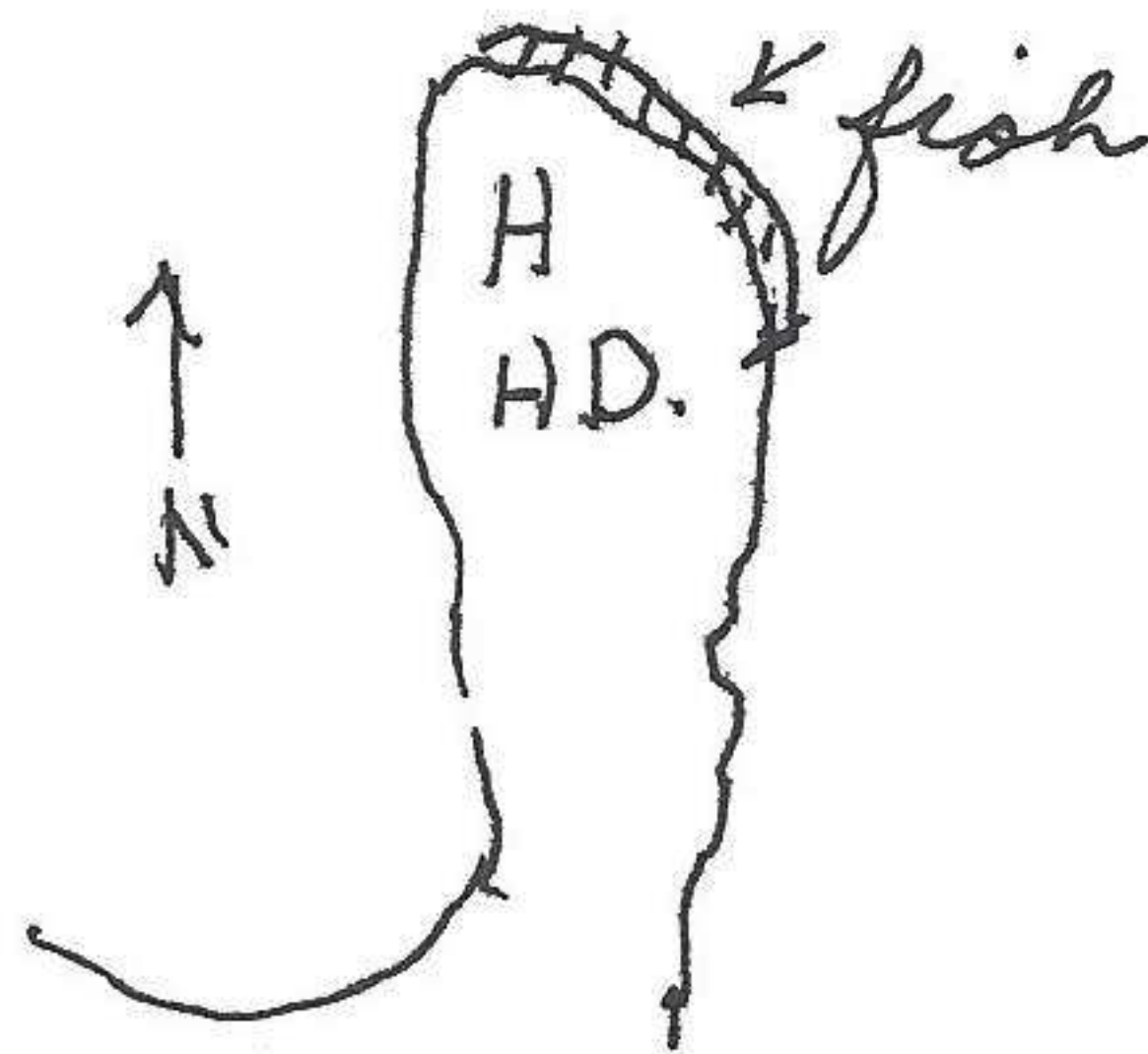
2 pigeon guillemots, 4 glaucous-winged gulls, 4 pigeon guillemots, 2 marbled murrelets, 7 double-crested cormorants. E Thatcher Pass.
2-1-1-1 glaucous-winged gulls, 1 mew gull, 5 double-crested cormorants, 1 rhinoceros auklet, 1 mew gull, 1 d.c. cormorant, 2 glaucous-winged gulls, 1 double-crested cormorant, 2 common mergansers, 1 marbled murrelet, 2 glaucous-winged gulls, 1 double-crested cormorant, 3 pelagic cormorants, 1 mew gull, 5 pelagic cormorants, 1 double-crested cormorant.

Returned from Anacortes to Lopez Island. at ferry terminal observed: 310 mew gulls 31 of which were subadults. 19 glaucous-winged gulls 3 of them subadults, 2 pigeon guillemots, 4 bufflehead ducks, one hooded ♀ merganser, 6 surf scoters. Left on ferry 5:26 P.M., no census enroute but glaucous-winged gulls generally distributed on Painter Island.

March 19, 1992
cruised

Annette and I [^]around Frost Island in The Bee Boat. Trolled for 2 hrs but no salmon. Observed enroute, 6 glaucous-winged gulls, 6 pigeon guillemots, 4 harbor seals in water, 3 mew gulls. Two adult bald eagles on Flower Island. at N and E side Humphrey Head continuous school candle fish from 5' out to 40' from shore.

The area of candlefish also supported marine vegetation debris.



March 20, 1992

7:06 A.M. at Bee House 2 violet-green swallows circled house for approx. 10 minutes, inspecting but not contacting the 2 bird houses they used last year. Their flight was faster than later in the season.

Enroute to Fisherman Bay observed: On west side of causeway in San Juan channel observed 19 brant on edge of water along beach, 6 glaucous-winged gulls, 8 bufflehead ducks, 1 red-necked grebe, 1 hooded merganser. On east side causeway in S Fishermans Lagoon 48 greater scaup, 26 of which were males, 11 buffleheads, 58 mew gulls resting on sand-bars or mud flat, 23 glaucous-winged gulls searching ^{mud} flats for bivalves and other food, 3 American crows. In Swift Lagoon 4 mallards, 42 pintails 23 of which are males, 8 green-winged teal. Pintails walk over leg deep sand or mud bars rather than swim. In Swift Bay Low Banks, 76 glaucous-winged gulls, 21 mew gulls, 8 American crows, 11 greater scaup, 16 gadwall ducks. at Humphrey Lagoon 6 bufflehead ducks. An adult bald eagle flew N over Mickelson home SW of lagoon.

Left 11:39 A.M. for Anacortes, no birds except 2 glaucous-winged gulls, 2 pelagic cormorant, 1 sea lion, all above as we approached Anacortes ferry terminal.

Returned to Lopez Island (no census).

March 24, 1992

To Anacortes at 11:05 A.M. from Lopez Island. Birds observed: 15 rhinoceros auklet in one group, 8 mew gulls, 6 glaucous-winged gulls, 5 rhinoceros auklets. At Pinter Island N half glaucous-winged gulls, 5 half 1 adult bald eagle. 8 rhinoceros

ceras auklet, 2 rhinoceros auklet, 1 glaucous-winged gull, 1 double-crested cormorant, 1 pigeon guillemot, 2 rhinoceros auklets, 4 double-crested cormorant, 6 rhinoceros auklet, 2 glaucous-winged gulls, 2 pigeon guillemots, As we approached Anacortes ferry terminal: 2 western grebe, 1 red-necked grebe, 8 surfscoters, 14 pelagic cormorant on dolphins.

To Island Hospital for laryngoscopy by Dr. Cannon. 3:00 P.M.

Left Anacortes at 5:22 P.M.: 8 W grebe, 1 double-crested cormorant, 1 glaucous-winged gull, 2 rhinoceros auklet, 1 double-crested cormorant, 3 glaucous-winged gulls, 11 rhinoceros auklet, 2 rhinoceros auklet, 2 mew gulls, 2 marbled murrelets, 1 mew gull, 1 double-crested cormorant, 3 glaucous-winged gulls, 8 rhinoceros auklets. Lawson Rock, 5:45 P.M., groups of 4, 8, 3 rhinoceros auklets. W Thatcher Pass 5:50 P.M. 2 glaucous-winged gulls.

Willow Island, 5:53, 1 double-crested cormorant, 1 pelagic cormorant, 1 double-crested cormorant, 7 groups of rhinoceros auklet, 3, 8, 10, 13, 2, 3, 11 all flying S. Arrived Lopez Island.

at Bee House, myotis (5" wing sp) started flying 6:58^{P.M.} at dusk and continued until not visible because of light quality.

March 25, 1992

At 6:45 A.M. 5 violet-green swallows circling in fog in front Bee House where they entered bird house (3 times). 1/2 hr. later they left and returned 8:20 A.M.

2:35 P.M. American crow left Bee House and flew directly to NE Frost Island.

Alder and big-leafed maple bright greenish yellow.

March 26, 1992

Sunrise 6:19 A.M. at angled curve of Bloshely ridge between Bald Bluff and Bald Bluff Peak.

mule deer are more active in approaching deer feeder at Bee House and eat more vigorously than previous years.



March 29, 1992

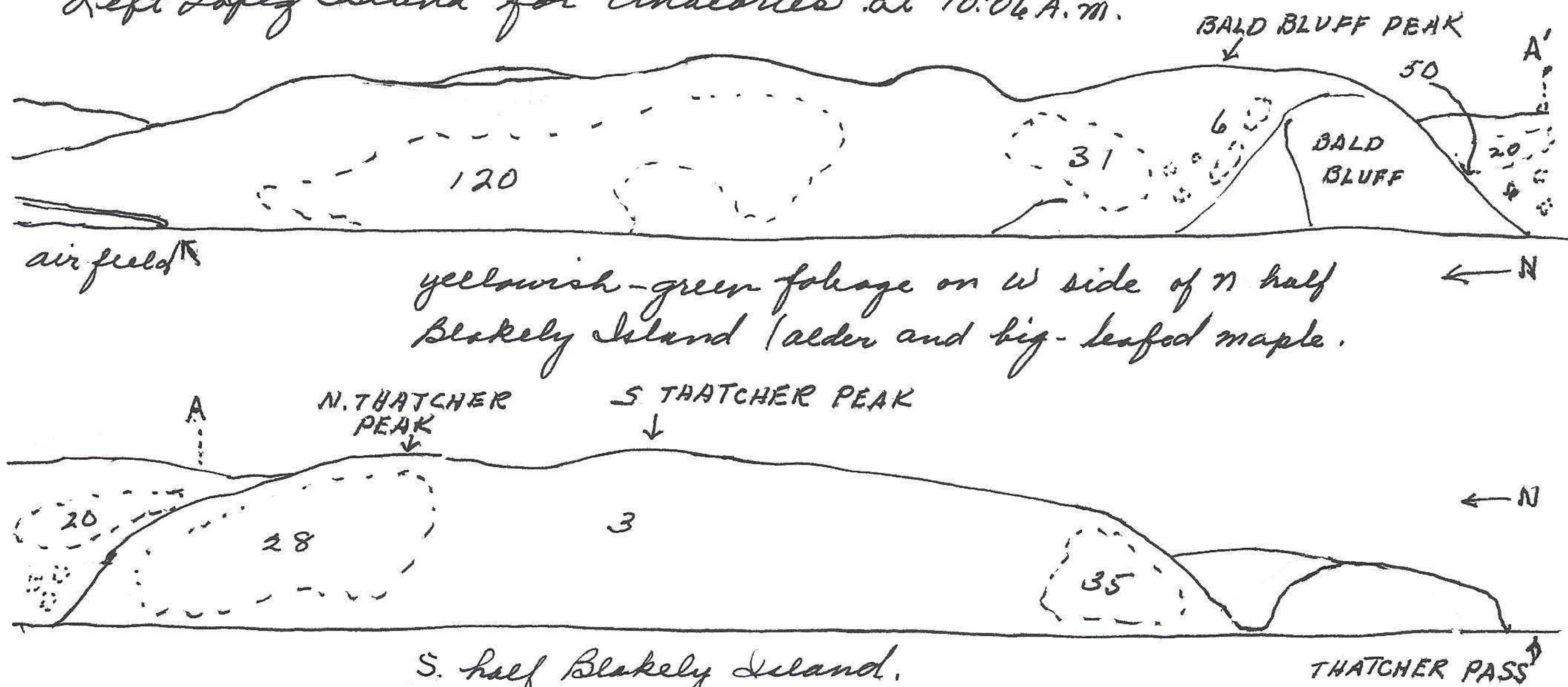
4:30 P.M. Rufous hummingbird observed at Bee House for first time this season.

March 30, 1992

From 6:00 A.M. to 8:20 A.M. 1-6 violet-green swallows

The swallows circled out over water and then return to nest box, and either fly by, pause or alight on top or more generally at hole or enter. At one time 2 swallows arrived at hole at same time and made contact and toppled down 8 feet before separating. no bringing of nest material to nest.

Left Lopez Island for Anacortes at 10:06 A.M.



yellowish-green foliage on W side of N half Blakely Island (alder and big-leafed maple).

S. half Blakely Island. THATCHER PASS

madrona not as yellow as alder or maple.

W Thatcher Pass

Pointer Island

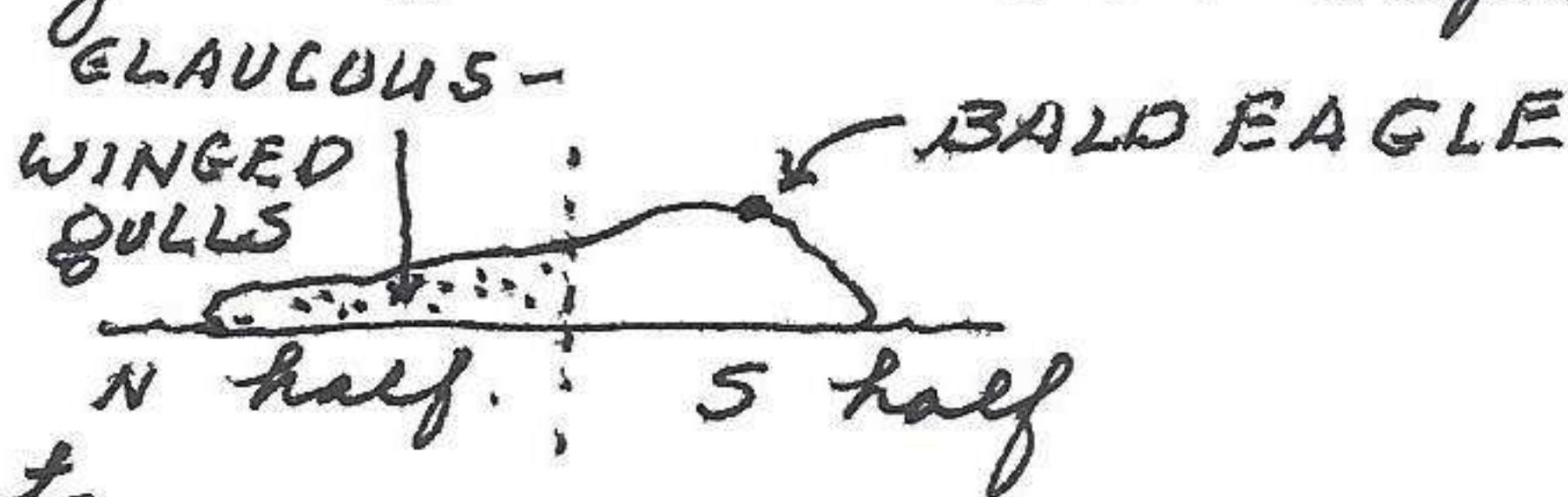
2 rhinoceros auklets

in Rosario Straits. also 2 glaucous-winged

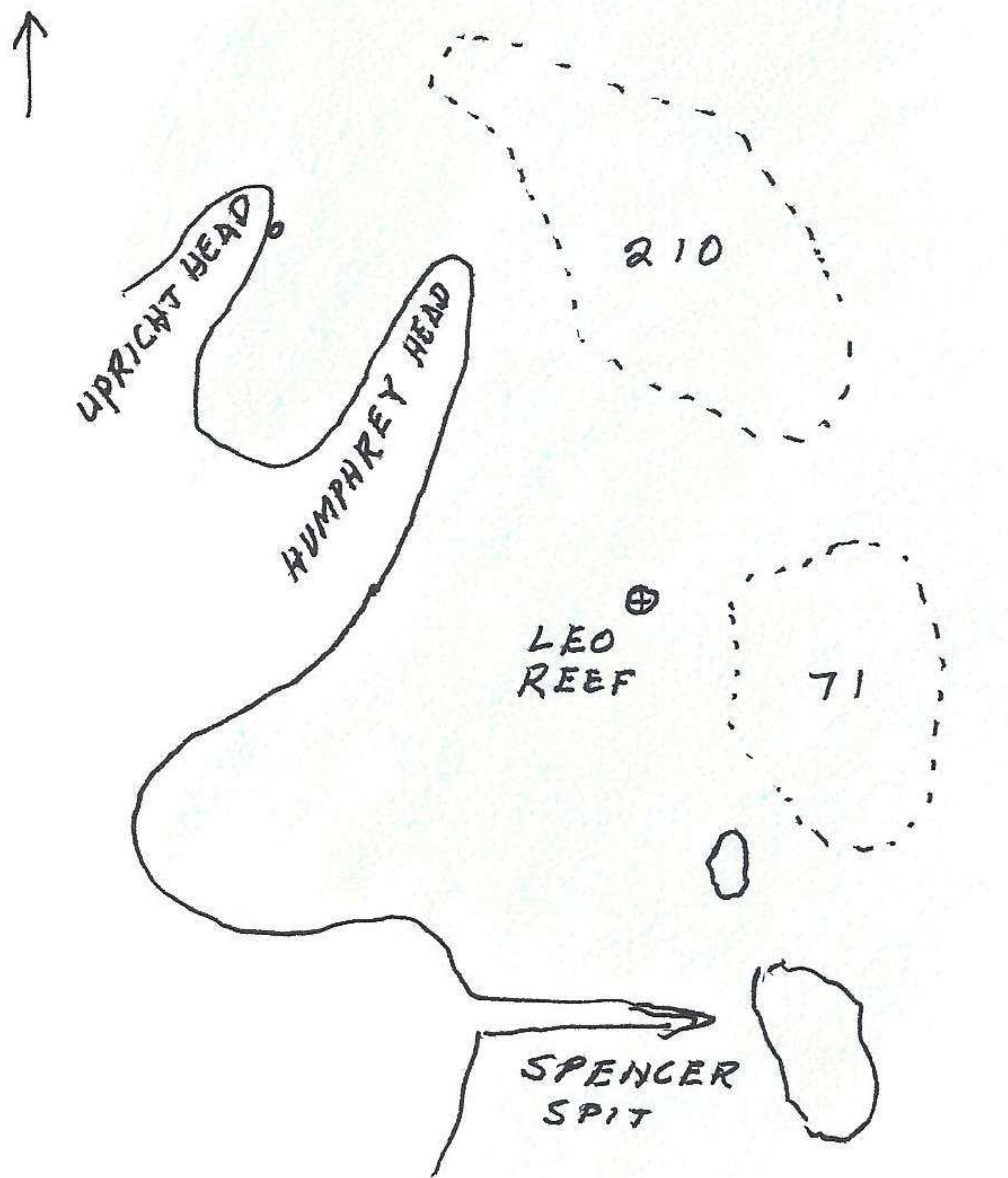
gulls, 1 mew gull, 1 guillemot, 2 pigeon guillemots.

Approaching Anacortes terminal, 3 surf scoters, 2 double-crested cormorant, 3 glaucous-winged gulls, 130 glaucous-winged gulls of which 14 (9 per cent) were subadults on piling SW end bay to S of terminal.

On return to Lopez Island; (in by SW of terminal) 2 gadwall ducks, 68 glaucous-winged gulls on piling, 13 mew gulls, 4 bufflehead ducks, 2 pelagic cormorants, (165 crab traps), 6 black scoters. Left on Nisqually ferry 5:24 P.M. 2 pigeon guillemots, 3 rhinoceros auklets, 5 double-crested cormorants, 3 rhinoceros auklets, groups of 5 and 3 rhinoceros auklets, 3 rhinoceros auklets, 3 glaucous-winged gulls. groups of 2 and 3 rhinoceros auklet (meaning 1 group of 2 and one group of 3), 89 western grebes in one group, 3 rhinoceros auklets. W Thatcher Pass. 1 pigeon guillemot (neck angles forward and dips head frequently into water), 71 rhinoceros auklets generally distributed SE of Leo Reef. Approx. 210 rhinoceros auklets in middle N Lopez Channel from E Humphrey Head to N. many groups 3-12 in flight. Arrive Lopez Island.



2 of the gulls within 15' of adult eagle on island.



General distribution of rhinoceros auklets. In this area counted only 8 glaucous-winged gulls. The gulls usually are associated with feeding activity of rhinoceros auklets.

March 30, 1992 (cont)

Band-tailed pigeon at Bee House feeder.

6:15 AM (5 min)

March 31, 1992

After sunrise, 3 violet-green swallows arrived at Bee House nesting boxes, then 6 then 7 for 5 minutes of circling in front of house and some entering boxes. The flight was accentuated compared to other visits. 6:21 1 swallow returned & entered box then left. 6:22 1 returned, then 2 more and remained until 6:35 when 12 joined the 3. 6:40 all left except 3. 6:42 last 3 left. 6:44 4 returned. 6:46 all left

2:00 PM. river otter swarm 5 past Bee House.

2:05 PM ♂ mule deer at feeder and measured 51" high at shoulders.

April 1, 1992

8:35 AM. Harbor seal feeding 10' from shore in front Bee House.
Band-tailed pigeon at feeder.

April 2, 1992

Sunrise 6:10 AM 1/5 N Bald Bluff Peak. Violet-green swallows 40' minutes late of usual arrival time.

Adult female mule deer when defending dominance recognizes her young by odor but not by sight. ^{singledots}

Last night stars perfect reflection, in water of sound. (2:30 AM)

Band-tailed pigeon at Bee feeder. Their numbers increasing.

Between Bee House and Leo Reef 3 glaucous-winged gulls and 3 rhinoceros auklets fed vigorously in one concentrated spot. At the same moment 26 pelagic cormorant left Leo Reef and 11 from Leo Reef Rock #10 and flew directly to the gulls and auklets where the cormorant landed but did not dive. They the cormorants, remained ^{in a group} for at least 20 minutes.

April 4, 1992

To Anacortes 7:50 A.M. via ferry from Lopez Island. Ad. bald eagle on nest NE Frost Island. 2 glaucous-winged gulls to middle Rosario Straits, water surface humps rather than parallel waves because of tidal direction and wind opposite. 2 rhinoceros auklet. Continued to Anacortes with seeing birds. Returned later to Lopez Island.

April 5, 1992

Deciduous trees more green than yellow.

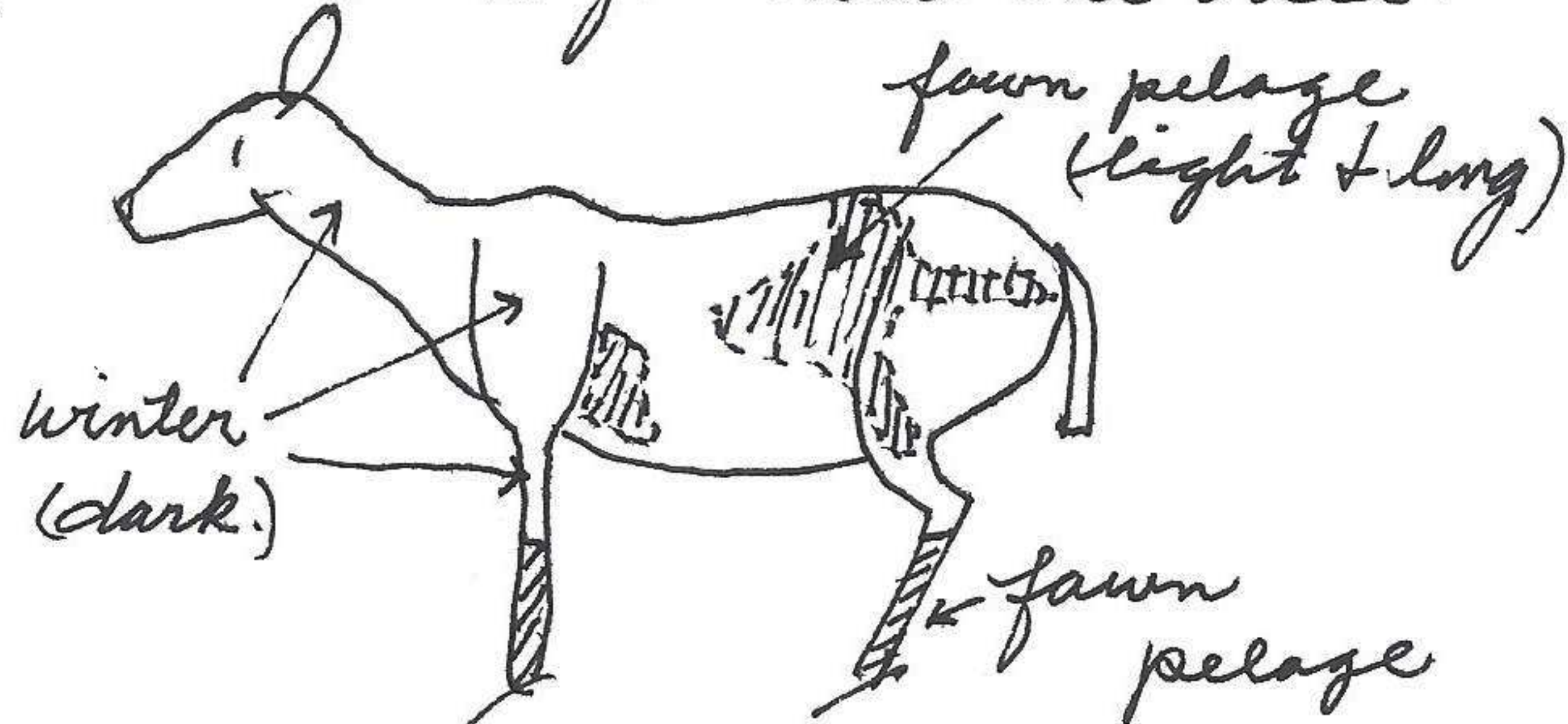
April 6, 1992

Left for Friday Harbor by ferry at 1:58 P.M. 2 glaucous-winged gulls. Show Island, then Orcas at 2:30 P.M. Left Orcas 3:42 P.M. Pigeon guillemot, 4 glaucous-winged gulls, 2 cormorants between Orcas & Friday Harbor ^{3:28 P.M.} (via Crane Passage). On San Juan Island (Annette, Matthew Kenagy) visited British Camp. Photo 920406-1 of large tree and black house, thence American camp domestic rabbits common and inhabiting open field and taking on behaviorism of prairie dogs. 1 red-tailed hawk in area. no rabbits on beach area. Returned Lopez Island.

April 7, 1992

at feeding-time (7:30 A.M.) at Bee House, 16 mule deer in back yard (2 separate herds). The ^{local} herd consisted of 2 fawns of last year, ♂ + ♀ 2 year olds, 3 ad. ^(largest dominant) females, the other herd: 1 ♂ last year, 1 ♀ 2 yrs old, 3 over 3 years, 5 adults. They all consumed food for 25 minutes then visiting herd left abruptly & ran to top of hill followed by 4 members of local herd which followed the visit. herd to top of hill but then returned.

The orphan of local herd still retains fawn pelage and hair gets lighter from day to day against the dominant winter pelage.



Trip to Anacortes with Matthew to meet Chris, John & Mary Kenagy for lunch. Truck loaded with red alder (one measured 24" in diameter, others larger). Left Lopez Island 10:56 A.M.: glaucous-winged gull, 2 pelagic cormorant, 4 glaucous-winged gulls, 1 mew gull, 4 rhinoceros auklets, 1 double-crested cormorant, 4 pigeon guillemots, 1 rhinoceros auklet, 3 rhinoceros auklets, 2 pigeon guillemots, 1 common loon, 1 double-crested cormorant, 1 double-crested cormorant.

Left for Lopez Island 3:37 P.M. 13 mew gulls, 2 glaucous-winged gulls, 4 rhinoceros auklets, 1 double-crested cormorant, bufflehead ♂ ♀, 1 rhinoceros auklet, 2 glaucous-winged gulls. Arrived Lopez Island.

April 8, 1992

Observed 2 Sorex on hillside above Bee House. They left from under a rock, rolled down slope 2 feet during body contact then ran 5' to disappear under another rock. Time 8:30 P.M. Day clear.

Last year young orphan mule deer, 23" high at shoulders and still retaining shaggy ^{areas of} fawn pelage has at least 15 hair ruffled spots on body from being displaced by other more dominant deer. All local deer at feeder.

10:15 A.M. first harbor seal to arrive at Leo Reef, water calm. Between Leo Reef & Bee House can see 2 pairs pigeon guillemots, 4 mew gulls, 1 glaucous-winged gull and 1 harbor seal (in water). at feeding area Bee House the dominant ♀ ^{mule deer} displaced another adult ♀ which ran 30' away where she displaced another ♀ for 20' feet. One act initiates a series of same kind of act although circumstances may vary.

10:20 A.M. river otter swam 5 paces Bee House 2' from shore feeding as it moved S.

Checked causeway between S Fisherman Bay Lagoon and San Juan Channel. W of causeway 58 brant resting or feeding along shore (contact beach and water) at low tide. also 2 crows and 15 glaucous-winged gulls generally distributed along shore. at least 6 gulls dropping clams on road or beach. In ^S Fisherman Bay Lagoon: 13 northern pintail, 42 greater scaup, 16 buffleheads, 56 glaucous-winged gulls, 8 mew gulls, 11 great blue heron, 5 American crows. In the S end Fisherman Bay to N & N E, 47 buffleheads, 62 greater scaup, 23 glaucous-winged gulls, 1 American Crow 100 western sandpipers?

at 1916 School House in wetlands, red-tail hawk,

In Swifts Lagoon: 42 northern pintails, 17 green-winged teal, 2 mallards.

Jack Saul our neighbor has 5-7 raccoons feeding from his porch feeder.

April 9, 1992

5:15 P.M. Leo Reef Rock # 10 1 harbor seal. Leo Reef Rock # 3 11 harbor seals. Last 2 days bald eagle adult in nest NE Frost, only white head showing but occasionally lowers below rim.

Ad. bald eagle on Leo Reef Rock # 3 just 10' from harbor seal.

Observed crippled Townsend chipmunk.

Flower Island now green from leaves of shrubbery.

2:15 P.M. river otter swam S past Bee House swimming 10 seconds then diving for 20 seconds feeding along the way. At pull-out S Flat Point gain head on top of Flat Point ridge at heliade contact and renewed scent marker. At one time this was a grassy swale and otter regularly used the grass to roll over adjust fur. It returned to water and past Lichen Point at 2:23 P.M. or 8 minutes from Bee House.

5:06 P.M. On Leo Reef Rocks 3-6 were 43 harbor seal, 3 on Leo Reef Rock # 11 and 7 on Leo Reef Rock # 10. Also 21 double-crested cormorant on Leo Reef Rock # 3. Bald eagle on nest NE Frost. 18 glaucous-winged gulls Flower Island.

A fawn ^{mule deer} of last year, 23" high at shoulders had 21 hair ruffles on body from displacement by other deer of herd.

Band-tailed pigeons now come to Bee feeder on regular daily basis 1 to 5 in numbers. These numbers have increased since first ones arrived this spring.

Eastern gray squirrel allows Townsend chipmunk to come within 1 foot at which time the chipmunk is displaced. Dark-eyed juncos come to within 1 foot of squirrels but the squirrel do not displace them. Juncos are fewer in number at this time than in winter.

April 12, 1992

at 12:15 P.M. Mr. Vaughn, our neighbor above Lichen Point and his 2 sons chased each other on Lichen Point by throw-in pine cones at each other, sliding down lichen and moss covered slope and trampling in general the vegetation and soils


for 45 minutes. The complete area of Lichen Point was trampled. From 12:45 to 1:25 P.M. the 3 fished from the point, again trampling the marine communities on the exposed rocks. The alternative is to have a vantage viewing point from among trees, a single path to bare rock vantage point for viewing but not participating in marine communities environs.

April 13, 1992

Birds in Swift's Lagoon: 48 northern pintails, 2 mallards, 8 gadwall, 4 greater yellowlegs, 14 green-winged teal, 2 common raven on beach.

at Bee House, 2 common ravens at feeder.

April 14, 1992

at Bee House, ♀ mule deer 29" high at shoulders, large buck antlers 1" x 1" .

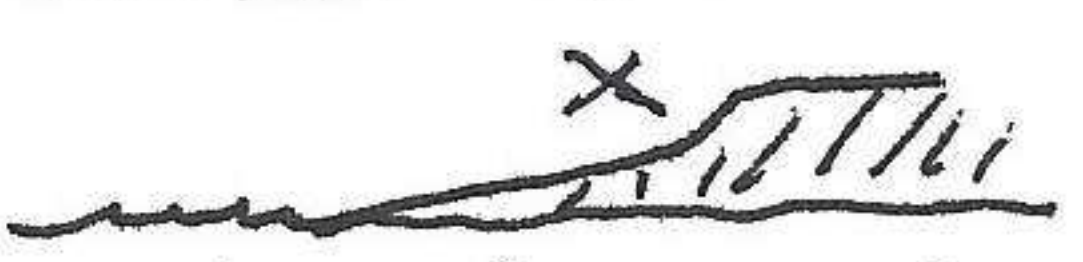
moon reflection in water below Bee House perfect and does not happen very often.

Poison-Cornus, Zigadenus venenosus var. venenosus in full blossom on Boundary Point on Bee Estate.

at Shoal Bay marina, counted 51 excrement spots on dock from great blue heron. They fish from edge of dock for small minnows of which there are many thousands. The spots, from 5" x 5" to 10" x 10" but irregular seem to have been made at one time.

4:20 P.M. ad. bald eagle on nest in top Douglas fir tree NE Frost Island. Another bald eagle in top of deer conifer tree approx. 20' away. The latter left and flew along N, then W side Frost and thence S

April 17, 1992

at causeway W side South Fisherman Bay Lagoon observed: 78 glaucous winged gulls in groups of 1-10 flying S into strong wind and waves and about 2-4 feet above the beach. . The wave, ^{in 12' swells} had seen behind them and the debris in water plainly shown when waves crested. 3 Harlequin ducks, 1 double-crested cormorant.

on E side causeway: 63 greater scaup, 18 bufflehead, 40 glaucous-winged gulls, 1 american crow, 4 mallards, 2 great blue heron. Left 4:42 P.M.

at Swift Lagoon: 45 northern pintail, 5 mallards, 2

shoveller ducks, 2 common teal, 23 green-winged teal, 2 mallards.

at Bee House 2 common loons 100' out from shore.

April 18, 1992

Left Lopez Island 7:53 AM for Anacortes; Birds observed. 2 western grebes, 6 glaucous-winged gulls, ad. bald eagle on nest NE Frost Island. 8:08 W Thatcher Pass, harbor seal in water, 1 glaucous-winged gull, rhinoceros auklet, 2 glaucous-winged gulls. Middle of Rosario Straits 8 common tern in flight N and irregular intervals but all passed in 3 minutes, 2 marbled murrelets, 2 more common tern separated from those just past by approx. 1 mi., 1 common murre, mew gull, glaucous-winged gull. There is a restricted line of surf action for 1/10 mile each side of beacon to S. Arrived Anacortes ferry terminal and thence S to Lost Lake, Snohomish Co. At pond edge Elliot Rd near underpass highway 522, 18 Canada geese and some ducks. At Chris and Steve's measured ♀ elk skull taken SW area Olympic National Park as: greatest length 16", zygomatic width 6³/₄". greatest width (orbits) 7³/₈ inches.

April 19, 1992

Left Chris and Steve's and to Anacortes ferry terminal, Left 5:22 P.M. Birds observed; line of 63 double-crested cormorants approx 100' above water. a few of them occasionally glided, 2 pigeon guillemots, glaucous-winged gull, 1 double-crested cormorant, 1 pelagic cormorant, harbor seal in water, 2 rhinoceros auklet, S. Cypress Island beacon, 2 glaucous-winged gulls, tidal currents middle Rosario Straits and another zone E of James Island, 5 surf scoters, 5 mew gulls, now N end James Island, 1 glaucous-winged gull, sunset 5:46 P.M., 2 glaucous-winged gulls, 2 individual glaucous-winged gulls. Beacon Blakely Island (W Thatcher Pass) 5:50 P.M. Double-crested cormorant. Lopez Island ferry terminal 6:11 P.M. 4 subadults and 6 adult glaucous-winged gulls on peling.

April 20, 1992

myrtle warbler in madrona trees in front of Bee House

9:35 A.M. rufous hummingbirds (2) have been feeding on madrona blossoms all morning. The two hummingbirds are antagonistic.

10:35 AM 25 harbor seal n Flower Island Rock, 9 on Leo Reef, Ad. bald eagle on nest n E Frost Island, 21 glaucous-winged gulls on Flower Island.

Eight inch high waves had superimposed random waves 3-4 inches separated. modest waves mask tidal currents but when gust of wind blow over waves the tidal currents appear as smooth surfaces.

1:35 P.M. 37 harbor seal on n Flower Rock, 12 on Leo Reef, an increase since 10:30 A.M.

At Swift Lagoon: 6 Cinnamon teal, 13 green-winged teal, 14 gadwalls, 2 blue-winged teal.

Checked numbers 9, 10 and 11 Leo Reef Rocks for position.

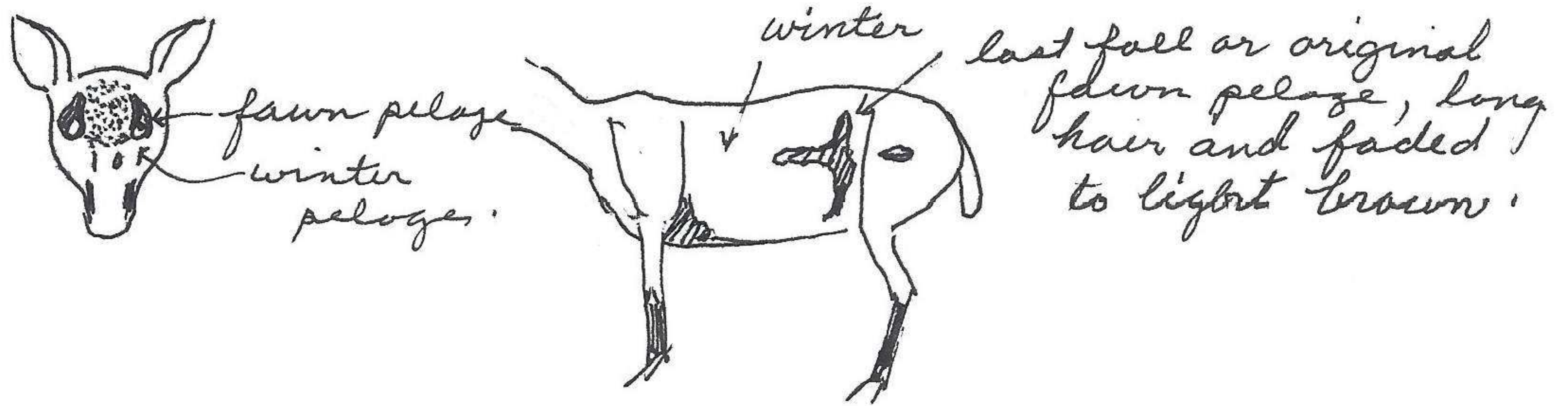
Records before in journal show
 The ad. bald eagle on nest on n E Frost Island remain with tiny large log raft occupied channel between the above Island and Flower Island for 1 night and half of today.

Deciduous trees on Blakely Island (W side) have lost the yellow color and are now a medium green.

Not more than 2 rufous hummingbirds at Bee feeder.

April 21, 1992

A river otter swam n out 40' from shore below Bee House. At one time it swam 120' without diving!



Harbor seal are occupying outlier as soon as they are exposed, 18 on north Flower Rock and 4 on number 10 Leo Rock.

Checked W side Causeway at Fisherman Bay S Lagoon: 108 bufflehead in one group. These ducks are collecting at open sound water from isolated lagoons etc, 20 brant feeding at edge of shore in water, 3 horned grebes, 23 mew gulls, 8 glaucous-winged gulls, 4 American crows, 6 surf scoters. On E side of causeway in lagoon: 47 northern pintail, 5 gadwalls, 8 cinnamon teal, 12 green-wing teal, 2 blue-winged teal, 12 violet-

violet swallow. at Humphrey Lagoon, no buffleheads in last four days. Previously buffleheads were always present although small number 1 to 11 in number, average 4.

April 21, 1992

4:30 A.M. 21 harbor seal on Leo Reef, 6 on North Flower Rock. Ad. bald eagle on nest NE Frost Island.

Young female mule deer moved 11 rocks (1" to 2 1/2") with side of nose to expose corneals of corn.

Female mule deer measured 29 1/2" high at shoulders, young female mule deer 28" high at shoulders.

April 22, 1992

3:40 P.M. 32 harbor seal on Leo Reef Rocks 3-5. On Rock number 10 were 7 and Rock 11 had 10. On Little Flower Rock were 18 seals.

Only 4 glaucous-winged gulls on Flower Island. Ad. bald eagle on nest NE Frost Island.

April 23, 1992

8 mule deer at feeder at Bee House:

- 1 1 year old ♀ (Orphan Annie)
- 1 3 year old ♂
- 1 2 year old ♂ 28 1/2" high at shoulders
- 3 4 year old ♀ 30", 30", 30 1/2" high at shoulders.
- 1 2 year old ♀ 28" high at shoulders.
- 1 1 year old ♀ smallest in herd.

April 24, 1992

23 harbor seal Leo Reef (Rocks #3, 4, 5) none elsewhere. Bald eagle on nest NE Frost Island.

6 Townsend chipmunks chased one particular chipmunk for 1 1/2 minutes

Today is first day of season that flies have bothered mule deer.

Common raven flew over Bee House at 2:40 P.M.

April 25, 1992

10:50 A.M. 35 harbor seal N Flower Rock, 2 on Big Flower Rock no others. no bald eagle on nest. 6 glaucous-winged gulls, Flower Isl.

April 26, 1992

This A.M. 40 glaucous-winged gulls ridge Flower Island. Not on territories. no harbor seal in area.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.

April 30, 1992

6:40 A.M. left Lopez Island for San Diego, Calif. Left ferry terminal Anacortes via commuter bus 8:44 A.M. Started to rain at Everett. 10:37 Safeco Building. 10:43 Mercer Street + Center of Seattle. 11:00 SeaTac airport. Scheduled for Delta flight but all Delta flights to Los Angeles cancelled because of beginning of riot. Arranged with U.S. Air ^(2:44 + 12:16 P.M.) to Reno, thence ^(Dep. 3:16 P.M.) San Diego. Trip by B 737-300 plane. From Seattle takeoff 12:16 P.M., reached cabin pressure 8000 at 12:45 P.M. 1:05 P.M. beginning cumulus clouds and rail between. 1:15 P.M. descending for Reno. 1:38 P.M. arrived Reno (touchdown) at approx 4200' elev. 1:22 minutes from SeaTac. Left Reno 2:09 P.M. SW to Las Angeles. 2:33 W. side Cascades. 2:54 large reservoir & isolated mt. to S. From Cascades to Los Angeles valleys in mountain with dense black smoke. 2:58 ^{above smoke} Taps mt. showing only. 3:01 P.M. Crossing large river. 1:06 P.M. over Los Angeles. At least 10 smoke columns in city below from riot fires but localized. Continued W to ocean thence S. passing E of Islands. Swells NE-SW. N-S swells surpumped. 3:26 P.M. arrive San Diego. Mary & Alan Jensen picked us up at the airport and drove to Coronada Condominiums just E of Hotel del Coronado. (middle facing N) where we stayed until April 10.

San Diego, Calif. (Coronado)

May 2, 1992

On San Diego River flood control just S Quivira Basin, noted: brown pelican, black-bellied plover, marbled godwit, long-billed curlew, and a sandpiper and gulls (Herring?).

4:00 P.M. 3 mi trip along beach S Coronado: 16 Herrmann gulls and 12 gulls (sp?) in one group.

May 3, 1992

10:00 A.M. Beach S of Coronado: 11 marbled godwits, 9 brown pelicans (flying over), 47 Herrmann's gulls in one group, 8 western sandpipers, 68 surf scoters, 1 dead arctic loon (24" long), 9 sanderling, 2 cormorants, another 10 brown pelicans. This P.M. went to SeaWorld N of San Diego.

May 6, 1992

General (2 star) Given and Daisy Peacher, friends of Mary & Dan hosted us to the museum of man. Mr Douglas Charon, Director of museum. This museum has good facilities and finances to operate. Checked all research departments. Pueblo, Anazasi and Fremont collections mainly storage. In park and city in general is an outstanding tree in blossom (jacaranda) or Brazilian rose-wood, (Family Begoniaceae) directly

at marip' at Coronado observed the following in bay to n. :
 arctic loon, 4 western gulls, 1 Herring gull, 6 marbled gadwits,
 1 brown pelican, 1 red-breasted merganser, 1 great blue heron,
 1 house finch fed on porch 11 stories high, 2 mourning doves,
 1 egret, 2 western grebes,

May 8, 1992

Spent day in San Diego.

May 9, 1992

2nd American Cup races. Viewed from Pt. Lorna and best by T.V.

May 10, 1992

Collected mollusc shells 920510-1 (set) on beach S of Hotel del Coronado. In afternoon to Mexico.

May 12, 1992

Left San Diego 7:50 A.M. on Delta (232) via Salt Lake City. on Lockheed 10/11. 7:54 PT Loma, thence E. Hoover Dam, Las Vegas. 8:41 first green on slopes. Valley to base of mts and bare. mts eroded 8:53 meander river, sands, ^{ridges} NNE by WSW 8:58 sands cover mt. 9:00 A.M. S end Utah Lake on west side over Fairfield. 9:02 A.M. Fairfield. Continued up Cedar Valley, over Traverse Range W of Jordan River, to N of S.L. City airport, circled and S to airport. arriving 9:14 A.M. (Pacific Time). Trip 1 hr and 17 minutes.

Left Salt Lake Airport, Utah 10:45 A.M. on 759 Boeing. Takeoff 10:55 A.M. 11:02 N end valley. Wind on dunes from SW. 11:07 dissected plateau, trees on N exposure and gradually appearing. 11:32 A.M. Idaho, Snake River & cultivated valley. 11:22 A.M. Snake River. 12:07 P.M. lake between mts. 1:40 arrived SeaTac, Wa. still Pacific Time. James Robert Bee arrived from Alaska at 2:00 P.M. Will see him again tomorrow at Lopez.

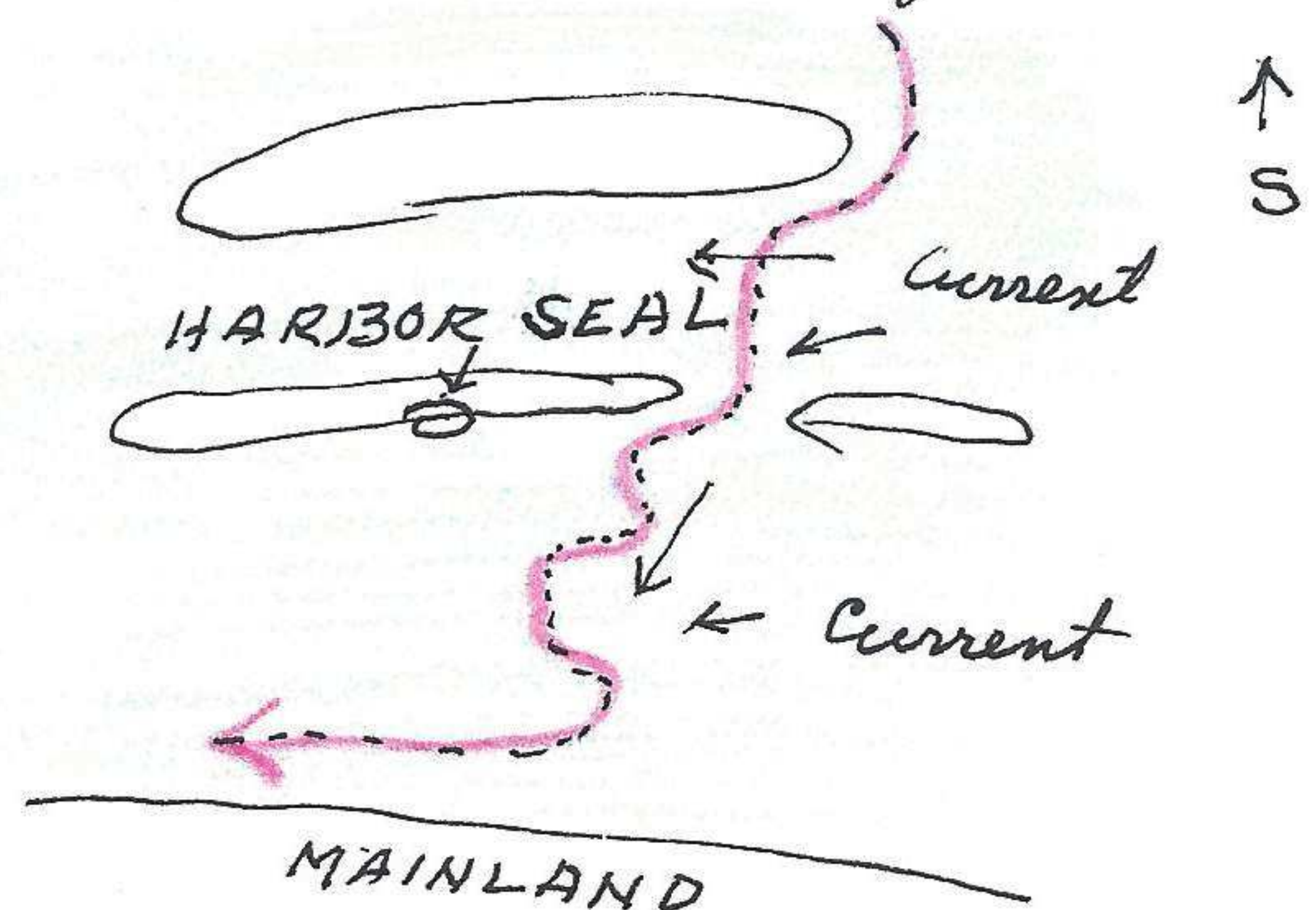
Have noticed that the American flag on right side of planes has been painted with field of stars in upper right hand corner of flag which is reversed from accepted rules of flying the flag. Left SeaTac airport on commuter airporter at 2:41 P.M. 3:25 P.M. Everett at Wenatchee turnoff. 4:43 arrived Anacortes ferry terminal. Left 5:10 P.M. for Lopez Island. Enroute 2 pelagic cormorants. Painter Island completely covered with glaucous-winged gulls on territories. 3 glaucous-winged gulls flying in air E end Thatcher Pass,

^{Humphrey Head}
Bee Estate, ~~Lopez Island~~, San Juan Co., Wa.

May 14, 1992

S end Shark Reef. One large harbor seal resting on rock, the largest I have observed.

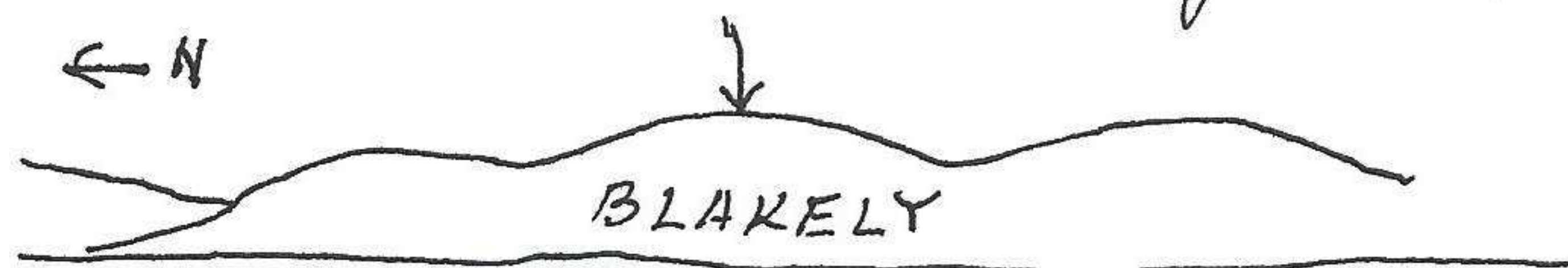
8 river otter in one group crossed channels from outer island to mainland. They are much more aggressive in currents (out flowing tidal currents) than otter in N Lopez Sound as they move past Bee House along the shoreline. They maintained a close formation most of the time as they adjusted to the currents.



At Bee House adult ♂ dark-eyed junco fed two young of same size as adults.

9:10 P.M. first bat (myotis?) active and have been for last 3 days at about same size as adults.

May 17, 1992



Sunrise 5:46 A.M.

May 18, 1992

James R. Bee presented Annette & I with a photo taken by Steve Kaufman of St. Augustine Volcano in Katmai Range S of Anchorage, Alaska, taken March 28, 1986. Catalogue no. 920518-1 JWB. This volcano erupted March 27, 1986 at 2:50 A.M. Next day at the second eruption Steve caught the initial explosive action of the volcano

with smoke up to 42,000 ft.

On a telephone conversation with Mary Bee Kaufman in Homer, Alaska, she reports a Coyote on their property east and n of Homer.

at Bee House observed 16 harbor seal on Leo Reef, 2 on Little Flower Rock. 23 glaucous-winged gulls on Flower Island, 11 of them on territories

at Bee House ♀ mule deer with right nick on ear. She measured 28 1/2" high at shoulder. Rich brown pelage of ^{summer pelage in face & head only.} Lower leaves of stinging needles turning yellow.

First active bat at 9:20 P.M.

♂ mule deer 28" high at shoulder, another ♂ 29".

This afternoon at 2:00 P.M. the following harbor seal were observed:

36 on Leo Reef Rocks # 4 to 6.

16 on Leo Reef Rock # 9

2 on Leo Reef Rock # 10

11 on Leo Reef Rock # 11

70 total.

34 glaucous-winged gulls on Flower Island, 9 ^{pairs} on territories. 5 crow darting at some hidden object on the W side of island. NB bald eagle ^{nest} on NE side Frost Island.

May 19, 1992

15% moss on Deer Trail slope, now brown.

May 20, 1992

Left Lopez Island on ferry for Anacortes at 9:54 A.M. Glaucous-winged gull, 2 marbled murrelets, 1 harbor seal on n side Leo Reef, none on S side, 15 glaucous-winged gulls on E side Flower Island (not visible from Bee House), 8:10 beacon S end Blakely. 3 glaucous-winged gulls, groups of 6, 2, 1 glaucous-winged gulls, 2 mew gulls. Arrived Anacortes 8:25 A.M. 32 glaucous-winged gulls on piling in bay SW ferry terminal.

Returned Lopez Island 7:38 P.M. from Anacortes ferry terminal. 38 glaucous-winged gulls on piling SW terminal. Birds observed en-route 1 common murre, 10 rhinoceros auklets, groups 8, 6 rhinoceros auklets all flying S just E of James Islands, pelagic Cormorant. W Thatcher Pass. Have not observed birds on roosting cliffs of Willow Island for last year or so. Arrive Lopez Island 8:18 P.M.

May 21, 1992

Birds at Swift Bay: 26 mallards, 4 shovellers, 4 Cinnamon teal, 2 blue-winged teal, 6 gadwalls, 8 violet-green swallows, measurements mule deer at Bee House;

- ♂ last years, 26" high at shoulders.
- ♀ last years, 24 1/2" high at shoulders
- ♂ antlers 1" high
- ♀ 28 1/2" high at shoulders.
- ♂ 29" high at shoulders, antlers 1/2" high.

May 22, 1992

♀ mule deer of last year 24 1/2" high at shoulder has new complete rich brown pelage of summer and has been complete since last observed.

May 24, 1992

violet-green swallow at Bee House nesting box left 9:31 P.M. and returned 9:32 P.M. For last week bats have been active in front of Bee House as early as 9:08 P.M. and late as 9:20 P.M. average time 9:14 P.M. Tonight bats active 9:35 P.M. Their activity is associated with light intensity.

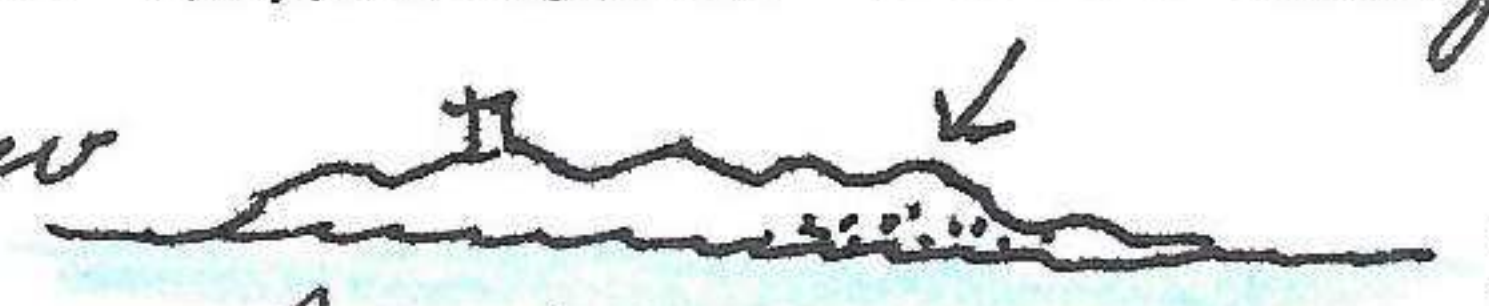
♂ mule deer with antler base 2" in diameter.

4:30 P.M., 12 harbor seal Leo Reef plus 10 glaucous-winged gulls and 1 double-crested cormorants.

All day at least 15 boats in traffic lane in N Lopez Sound ending at about 4:30 P.M.

Windy slope now brown, rest of area beyond green.

May 28, 1992

Immature bald eagle on Leo Reef Rock # 5. 11 harbor seal below , 9 harbor seal Leo Reef Rock # 9, 8 on Little Flower Rock, 24 on N Flower Rocks. 38 glaucous-winged gulls on Flower Rock. No eagles on nest or in area.

at Bee House, ♀ mule deer 31" high at shoulders with summer pelage starting on head, legs and belly.

To Bee Boat at Shoal Bay marina, Caught sand shark 33" length. In last 2 previous weeks have caught 3 on three occasions measuring 31, 32, 32" respectively

May 27, 1992

To Anacortes and return. At Bee Boat caught sand shark 33" long.

May 29, 1992

7:40 P.M. 46 glaucous-winged gulls on Flower Island, an American crow fed 3" behind an eastern gray squirrel on front porch feeder. It stepped forward and pulled on the end of the tail and held it for 3 seconds as the squirrel tried to extricate itself. Ordinarily when the two species are one on one, the squirrel is dominant.

3 turkey vultures soared above Bee House.

7:40 P.M. An American crow flew from Bee House directly to NE corner Frost Island.

Some white inflorescence of ocean spray in last week, most still in bud.

Deciduous trees, mainly ^{big leaved} maple and red alder indistinguishable among conifers on Blakely Island.

2 Canada geese with 5 goslings $\frac{1}{3}$ size of adults at pond SE junction Port Stanley and Cross roads. The adults have been observed at this pond most of the spring season.

9:30 P.M. First bats observed this evening.

May 30, 1992

at Bee Boat in Shoal Bay Narrows, caught sand shark 31" long (12:46 P.M.), water depth approx 20'.

May 31, 1992

5:00 A.M. a small myotis-like bat arrived Bee House at fast flight

5:13 A.M. adult bald eagle circled above Spring Cove

5:13 A.M. violet-green swallows arrived nesting box on Bee House and entered. Two left and 5 minutes one returned and entered the box.

7:10 A.M. 4 mule deer at feeder. One female chased another equal sized ♀ from Bee House to Boundary Point at full speed then chased it back across Deer Trail Slope to top of hill and out of sight. In 3 minutes it returned. There is constant dominance displacement at feeder but rarely territorial displacement.

1:10 P.M. 10 harbor seal on Leo Reef Rock #3-6, 17 on Rock #10 and 25 on Rock #12.

35 glaucous-winged gulls on Flower Island.

Photos 920530-1, 920530-2 and 920530-3 of raccoon at rear of Bee House at 7:30 P.M. (Annette's camera)

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.

June 1, 1992

7:10 A.M. To Friday Harbor. at Lopez ferry terminal: marine communities clear, black stain (algae) barnacles, black growth and seaweed, sea lettuce, kelp. Enroute 2 glaucous-winged gulls Upright Channel. 1 rhinoceros auklet Flat Point Channel, mid. San Juan Channel 2 rhinoceros auklet, no others. off Flat Point currents but on either side N-S calm waters. An informant on boat that lives on Buffum Farm on Lopez (along mt. Baker Rd) said that 30 Orea in one group at mouth Friday Harbor Bay on May 23, 1992 in A.M. On Buffum Farm many raccoon. He observed a mule deer fawn May 9, 1992 in area.

June 3, 1992

Trip from Lopez Village along beach to Flat Point and return. Left village P.O. at 10:51 A.M. Day clear. 10:10 first erratic boulder, 4 great blue Heron 11:55 A.M. first bay indentation 12:14 round boulder, continued N to beacon at Flat Point at 1:13 P.M. ^{12:14 round boulder, continued N to beacon at Flat Point} _{or 2 hrs 22 min.} Returned to village 3:08 P.M. or 1 hr 55 min. Round trip 4 hrs, 17 min. First half trip rocky beaches, second half sandy, no evidence fossils from ^{steep} eroded cliffs of sand & gravel unconsolidated soils. Low tide to kelps. Chitins rare, limpets rare.

June 4, 1992

Checked limpets and stars along shoreline from Gratto Cove to Boundary Point at -.3' tide, can traverse shoreline at this level. (Pisaster ochraceus).

Limpets in area of Boundary Point, particularly overhang and in Gratto Cove are:

Lottia (Collysiella) digitalis - Finger limpet.

Lottia (Collysiella) - Shield limpet

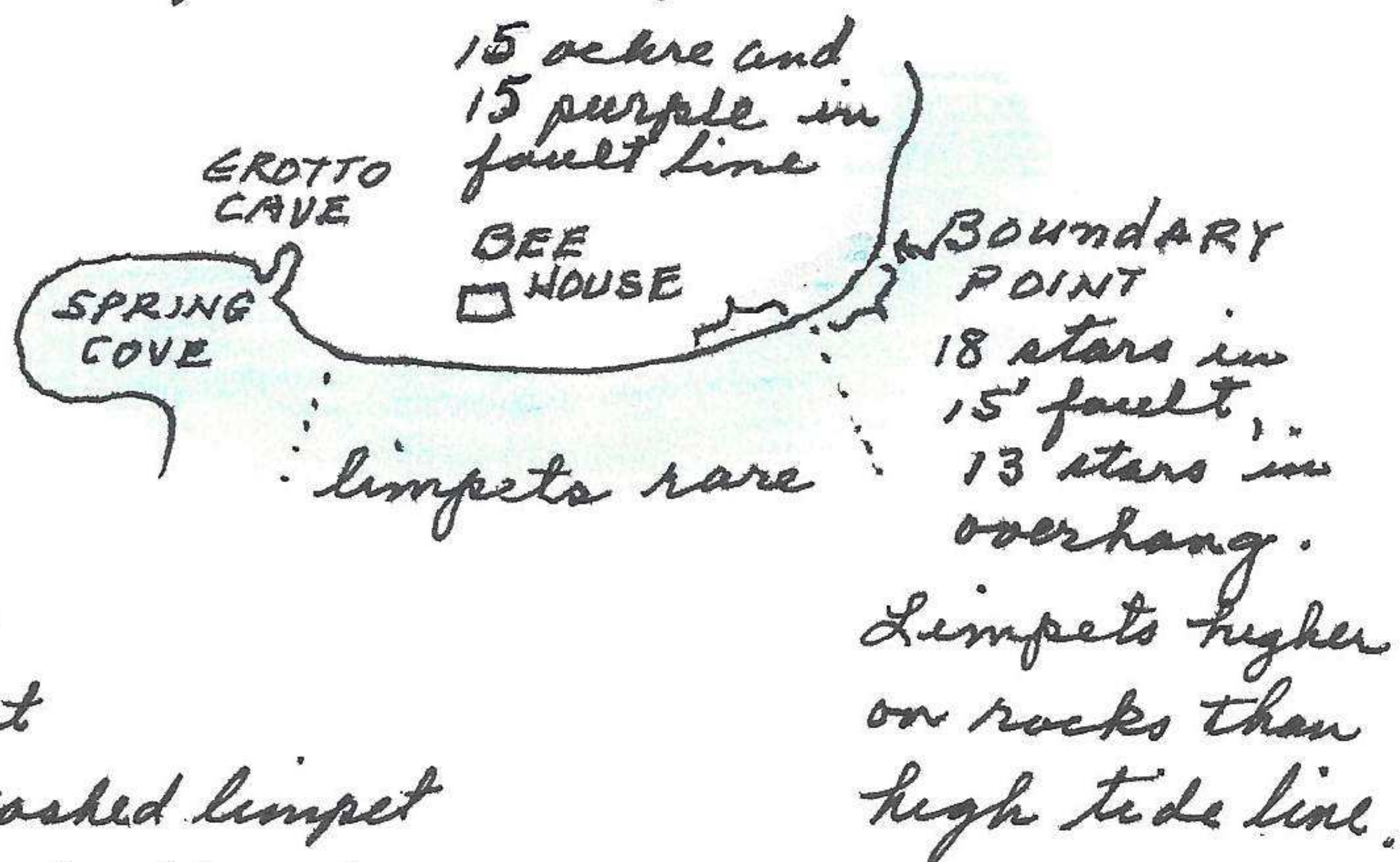
Tectura (notoacmea) persona washed limpet

Tectura (notoacmea) scutum, plate limpet

Noted violet-green swallow dart at American Crow at Bee House; swallows final approach a glide.

Pileated woodpecker on top of Lund Way' road past on Humphrey Head.

at causeway SW Feslermano Bay, 63 glaucous-winged gulls and.



12 American crows.

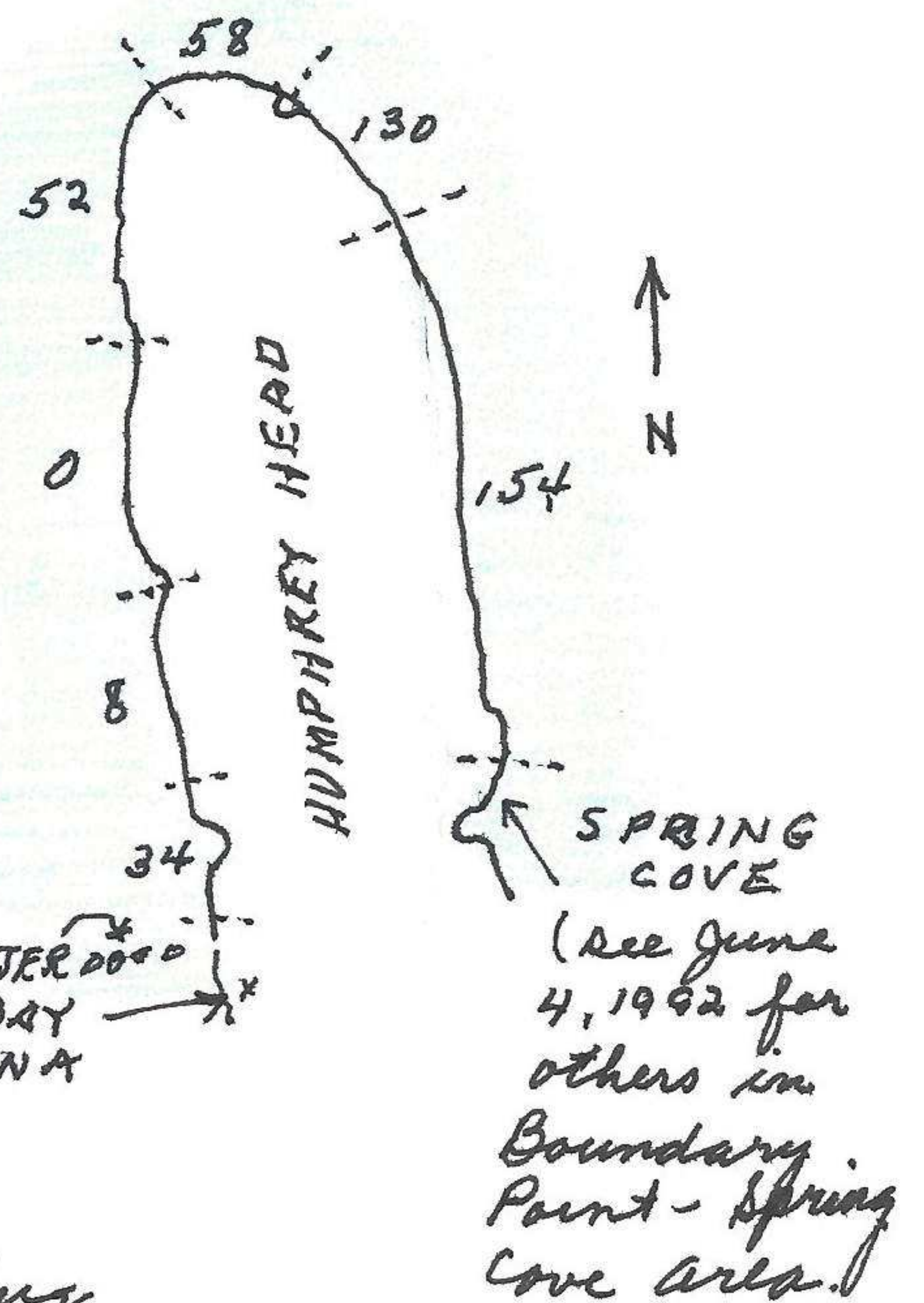
22 mallards Swift Lagoon, 4 turkey vultures overhead.
at 4:00 P.M. took boat around periphery Humphrey Head to check on sea stars, Pisaster ochraceus.
Total of 434 with purple and ochre about same in percentage numbers. This survey from boat approx. 100 feet from shore. With on ground survey my estimate would be 10x total.

Raccoon eat bodies of limpet after limpets are prepared as specimens.

June 6, 1992

2 rufous hummingbirds at feeder at Bee House. From boat in shoal bay (21 feet depth) caught spiny dogfish, Squalus acanthias measuring 24" total length.

BREAKWATER DOCK
SHOAL BAY MARINA



June 7, 1992

on ferry at 8:28 A.M. enroute to Anacortes in middle Rosario Straits observed a minke whale, Balaenoptera acutorostrata moving N. It breached (3/4 to entire body out of water) 8 times at 100ft. intervals at 12 seconds between breaching, then 3 minutes under water, then 3 more breaching at same interval as above. During breaching ventral view of body exposed to ferry. Pursuer of ferry (from Lopez) reports: Best time to see whales in July and August. Transients (Orca) in small groups; grey whale, Eschrichtius robustus generally ♀ and young together, ♂ loners and in more varied places in sound; no humpbacks; Ball porpoise like Orca in appearance but move faster. minke whale solitary; on Lopez-Anacortes route whale sightings rare; grey whales dig shallow concavities for small organisms in mud, live on salmon in sound.

Leaves of madrina on Bee Estate are dropping from trees.

June 9, 1992

From Bee boat at Shoal marina caught spiny dogfish 30" in total length.

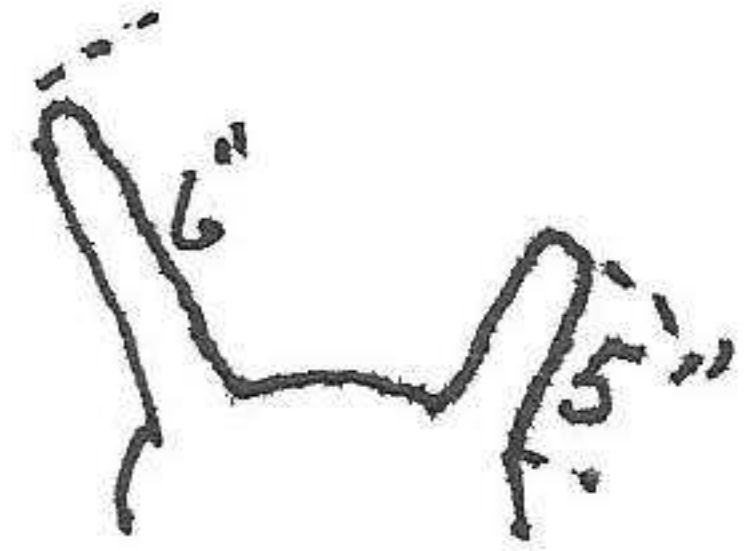
16 mallards Swift Lagoon as has been the case for last two weeks, varying one or two in numbers.

measure distance of causeway from road as 1.1 mi (statute)
 on W side causeway, SW Fisherman Bay, 1 Harlequin duck,
 one brant on edge water; 8 glaucous-winged gulls and 2 American
 crows.

Two fishermen report no bottom fish this year, at least low low
 in numbers.

June 12, 1992

at Bee House:



30" high at shoulders

June 13, 1992

10:00 A.M., rain, 50°F,

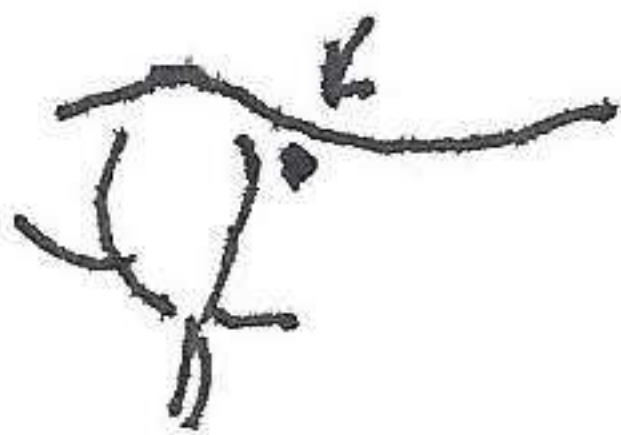
Harbor seal on Leo Reef (Rocks # 3-6") 23, 24 glaucous-winged
 gulls also. Rack # 9, 10 harbor seals, Kettle Flower Rack
 17 harbor seals; N Flower Rack, 19 harbor seals or 69 total seals.
 no bald eagle on nest NE Frost Island. Low tide (Fri Harbor)
 at 10:25 A.M.

at 10:25 AM, lowest tide 1.7

♂ mule deer R. L. at 30 1/2" high at shoulders (Bee House)

♂ mule deer R. L. 1" diameter at base. Left antler
 smaller diameter & curved

♀ mule deer with last year young, 3/8" tick on upper right
 shoulder.



June 14, 1992

Harbor seal in area (haulouts); at 9:45 A.M. on Leo Reef;

Leo Reef Rocks # 3-7, 34

7 just emerging.

9 19 seal

10 3 "

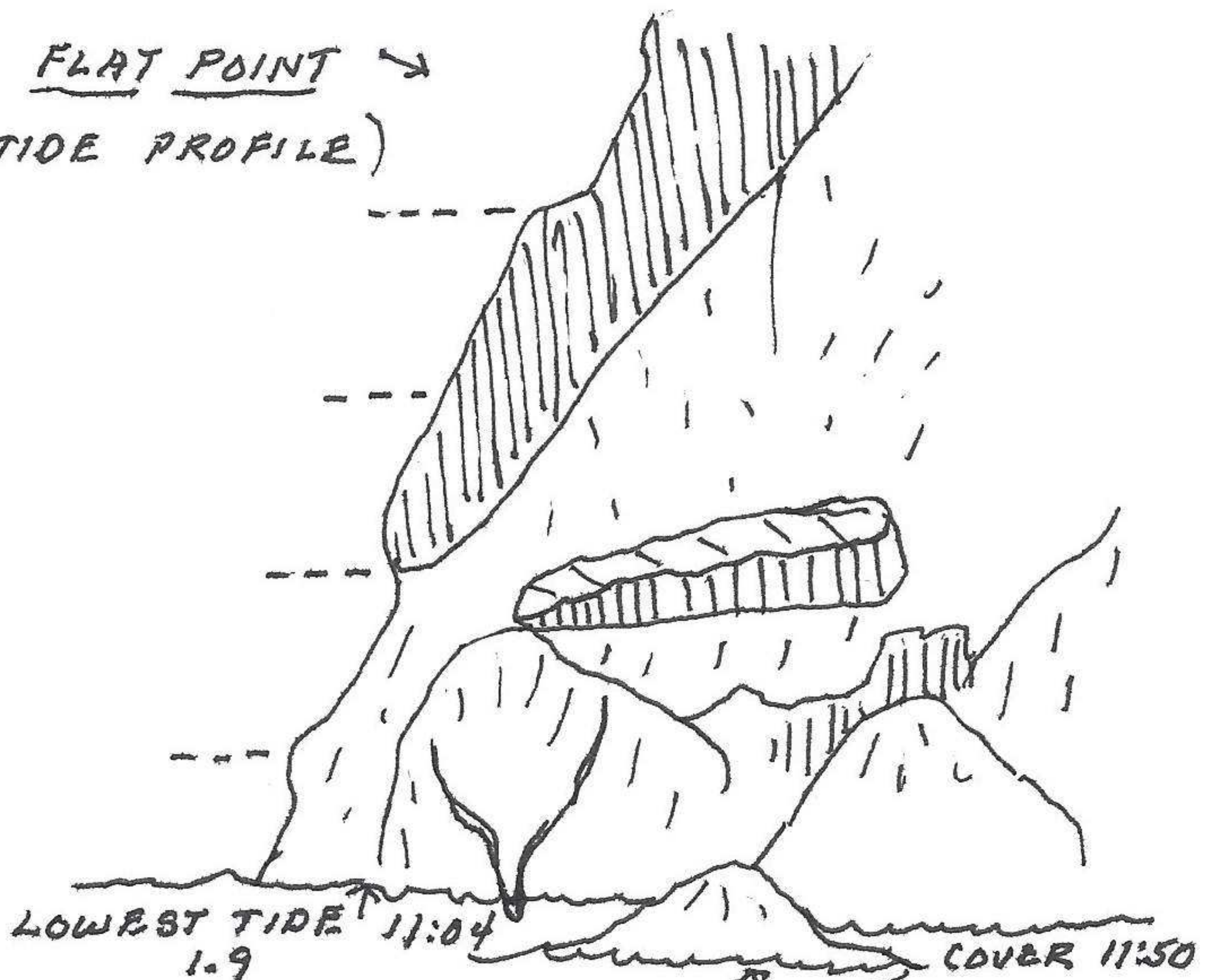
11 15 seal

Total 71 harbor seal.

no seals elsewhere.

Bald eagle not on nest.

FLAT POINT →
 (TIDE PROFILE)



June 15, 1992

Sunrise 5:19 A.M.

9:30 P.M. violet-green swallow enter nesting box last time this evening at Bee House.

9:36 P.M. first hot active front Bee House.

June 16, 1992

9:50 A.M. harbor seal on Leo Reef;

Rocks #3-#6 21 seal

On n. Flower Rock, 26 seal

Rock #9 12 "

Rock #11 15 "

total 74.

48 seals.

38 glaucous-winged gulls on Flower Island.

Bald eagle on nest NE Fruit Island.

Rock #11 on Leo Reef just emerging at 10:00 A.M.

at Causeway SW Fisherman's Bay at 1:36 A.M. (W side), 83 glaucous-winged gulls and 10 American crows in .55 miles of shoreline.

at Swift Lagoon, 21 mallards and 1 blue-winged teal.

June 17, 1992

ad. ♀ and 2 year old ♂ mule deer groomed each other for 5 minutes then ♀ displaced the smaller one with a thrust of front feet.

June 18, 1992

10:00 A.M. Following harbor seal on Leo Reef;

Rocks #3-#6, 4 seal

Rocks #9, 6 seal

Seal on n Flower Rock, 33

Rock #11, 6 seal

14 total

all total

49 seal.

no bald eagle visible on nest NE Fruit Island.

Some ocean spray on Bee Estate brown, country side 95 brown.

4 common rook from Blakely Island arrived Lopez Island above Spring Cove and remained in area all day.

at 7:00 P.M., caught spiny dogfish from boat at Shoal Bay marina. It measured 26" total length.

Collected and preserved a snake prickleback (fish) Lumpenus sagitta no 920618-1 from 18' of water 100' from shore at Shoal Bay marina, Lopez Island, San Juan Co., Wa. Total length 208mm. Fixed in 10% formalin and set pan on back porch. at night a raccoon consumed it!

June 19, 1992


Sunrise 5:15 A.M.



Rises at 45° angle

When corn is placed among a rock surface, mule deer will displace rocks up to 2 lbs with nose whereas large boulders up to 4 lbs are removed or turned aside with hooves.

An adult male mule deer with antlers 6" long was being loaded onto a truck owned by county. It was 1/10 mi. S Port Stanley and Baker View rds. The employed said that during high populations, 15 deer are killed ^{per week} by cars.

♂ mule deer at Bee House  30" high at shoulders.
2 kayaks displaced 70 harbor seal on Les and Flower outliers.

June 20, 1992

Today is solstice.

6:30 P.M. 4 people set up tent and camped on N end Flower Island on lower level. Climbed to top of island several times and presence displaced gulls of which there were 38. Prior to campers, fishermen and boats kept seals off outliers of Flower Island and Les Reef. At 8:10 P.M. 2 of the campers climbed to top of Flower Island and returned to camp 8:41 P.M. 42 gulls in air during that time. American crows (7) active on island.

at 9:39 P.M. violet-green swallow entered nesting box on Bee House for last time this evening. 9:42 P.M. first bat active at Bee House.

June 21, 1992

♂ mule deer 29" high at shoulders, antlers 1" high, (2 weeks?)
9 mule deer at Bee House feeder including first fawn of season.



a last year ♀ mule deer displaced fawn by clawing with front feet. All female adult interested in fawn and identified by smelling fawn. Fawn left for 5 minutes and climbed slope to top and then returned to mother. Fawn at green leaves and dried leaves of madrona.

10:10 A.M. campers left Flower Island.

no bald eagles on nest NE Frost Island but 2 20'-30' away on top dead tree.


10:30 A.M. adult bald eagle rested top Boundary Tree (Douglas fir) for 20 minutes.

To Anacortes ^{by ferry} for Father's Day to meet Chris & Steve and family at Slocum Restaurant on Flounders Bay.

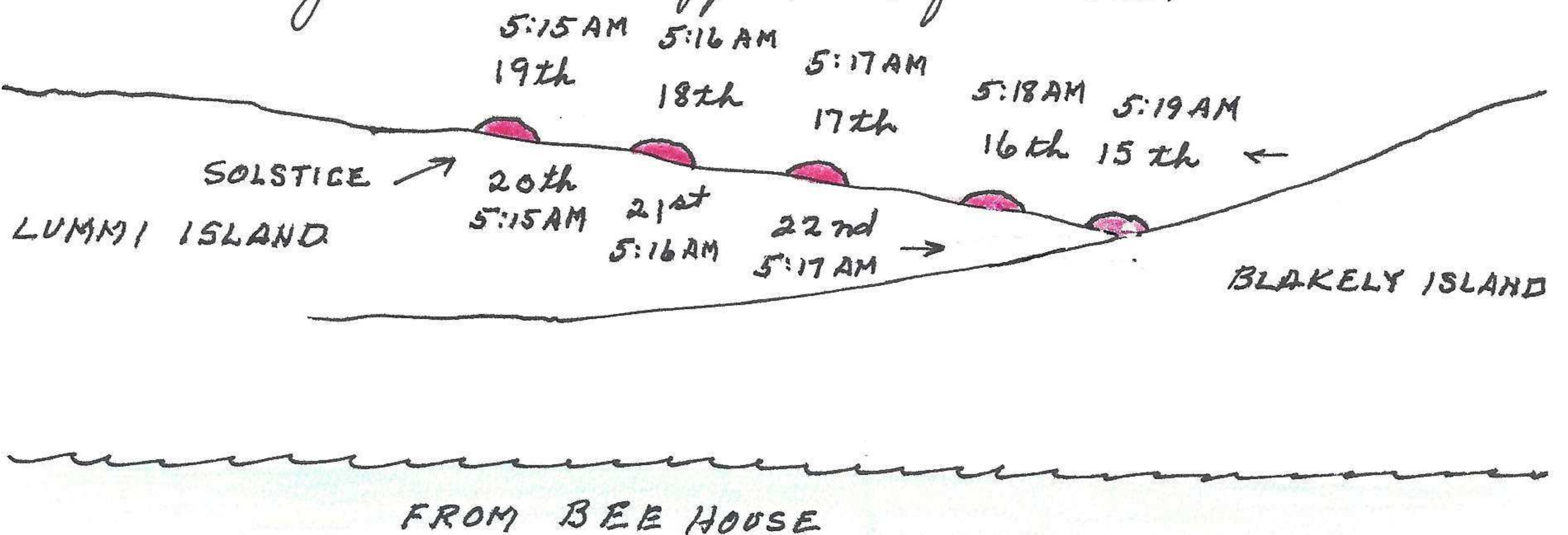
Left 11:21 A.M. 5 glaucous-winged gulls, Willow Island. E Thatcher Pass. Haul gulls on territories on Pointer Island, top center of island in brown grass. 23 salmon fishers (sports boats) in area, glaucous-winged gull, 1 rhinoceros auklet, 2 glaucous-winged gulls, fire on yacht. The ferry approached to 50' with fire equipment but owner refused. A lesson from incident: all 5 occupants left cabin without fire extinguisher or life preserver jackets because of heavy smoke from cabin. Man on bridge at helm did not direct people to lower dingy. Passengers picked up by another boat. It is important to have both fire-extinguisher and jackets outside of cabin and lower dingy first thing. Arrived Anacortes. Several photos of Sam.

Left Anacortes 5:02 P.M. for Lopez Island, enroute observed; 6 rhinoceros auklets, 9 rhinoceros auklets, 10 rhinoceros auklets, other groups of rhinoceros auklets of 2, 1, 2, and 3. James Island to 5, W Thatcher Pass, 2 glaucous-winged gulls.

June 22, 1992

Sunrise 5:19 A.M. 

Sunrises during solstice are approx. as follows:



June 24, 1992

To Chris' in Lost Lake home. will go to med center (UW) and pick up John Bessford & wife tomorrow.

June 25, 1992

To Sea Tac International airport to pick up John B. Bessford and his wife Isabelle from Ventura, California. John & I were in scouting in early days in Provo, Utah. Before retirement he was head of Ventura Boy Scout Council in Ventura area. Current address 4002 W P.C.H., Ventura, Ca. 93060. Because of his late arrival we drove to La Conner Thousand Trail Preserve

and had lodging in one of the log cabins on the preserve.

June 26, 1992

Back on Lopez Island. Four reefus hummingbirds at feeder. 2 adult bald eagles flew 5 past house. Spent rest of day touring Lopez Island.

June 30, 1992

Last few days we have taken John and Isabelle to the various islands

at 8:00 A.M. 2 people climbed to top of Flower Island and traversed the full length of ridge. Trespassers on Flower Island are from Spencer Spit State Park. They should be informed about regulations prohibiting entrance to the island sanctuary and harassing the gulls and other wildlife. During summer there is an average of one or more parties on Flower Island every other day.

July 1, 1992

Left Lopez Island for Seattle with John & Isabelle. Will visit the city, especially Old Seattle and stay overnight for escorting them to the airport tomorrow. Stayed at the La Plaza Hotel.

July 2, 1992

Checked few tourist attractions in A.M. and then drove John and Isabelle to Seatac International airport, then returned to Lopez Island.

July 3, 1992

From Bee House at 2:00 P.M., observed the following harbor seal on Leo Reef:

Leo Reef Rocks # 3-#6	32	Seal
" " " # 9	18	"
" " " # 10	3	"
" " " # 11	25	"

None on outliers of Flower Island.

14 glaucous-winged gulls (9 of which are single birds on nests) on Flower Island.

no bald eagles on nest but one top dead Douglas fir 20' away. I have noticed that there are more heat wave in summer than in winter when viewed thru Celestron scope.

Both nesting boxes on SE face Bee House are being used by violet-green swallows.

9:00 A.M. 13 mule deer (5♂, 7♀, 1 fawn) at Bee House feeder. Behavior of mule deer in response to dog in area (300' away) - all alerted and facing direction of dog. 6 left area but returned 20 minutes later. Those remaining moved with forceful thrust of front and hind feet upon the ground in a slow delayed step. They were more aggressive among themselves and leaped toward another deer, bunting, headwagging, stretched neck and front foot thrusting on contact, all as if aggression of presence of dog was being translated to other deer within the herd.



↑
brother of fawn,
groomed mother


Rufous hummingbird in area.

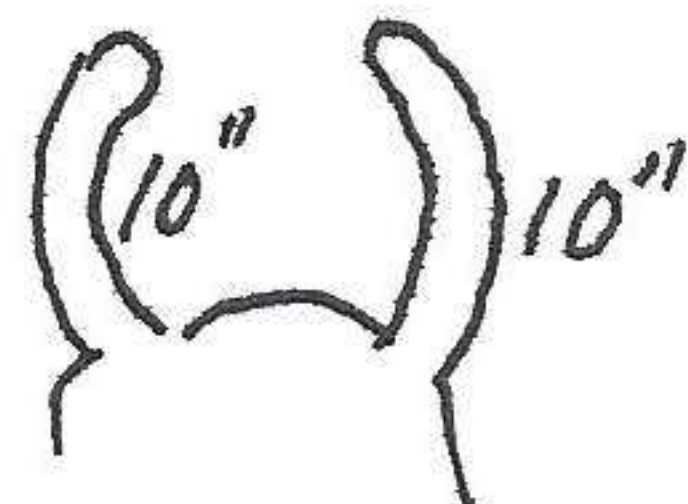
July 4, 1992
Rufous hummingbird in area.

Chris and family at house today and evening.

July 5, 1992
Rufous hummingbird in area.
leave Lopez Island.

will keep check to see when they

July 6, 1992
 mule deer. also rufous hummingbird in area.

July 7, 1992
 mule deer. also rufous hummingbird.

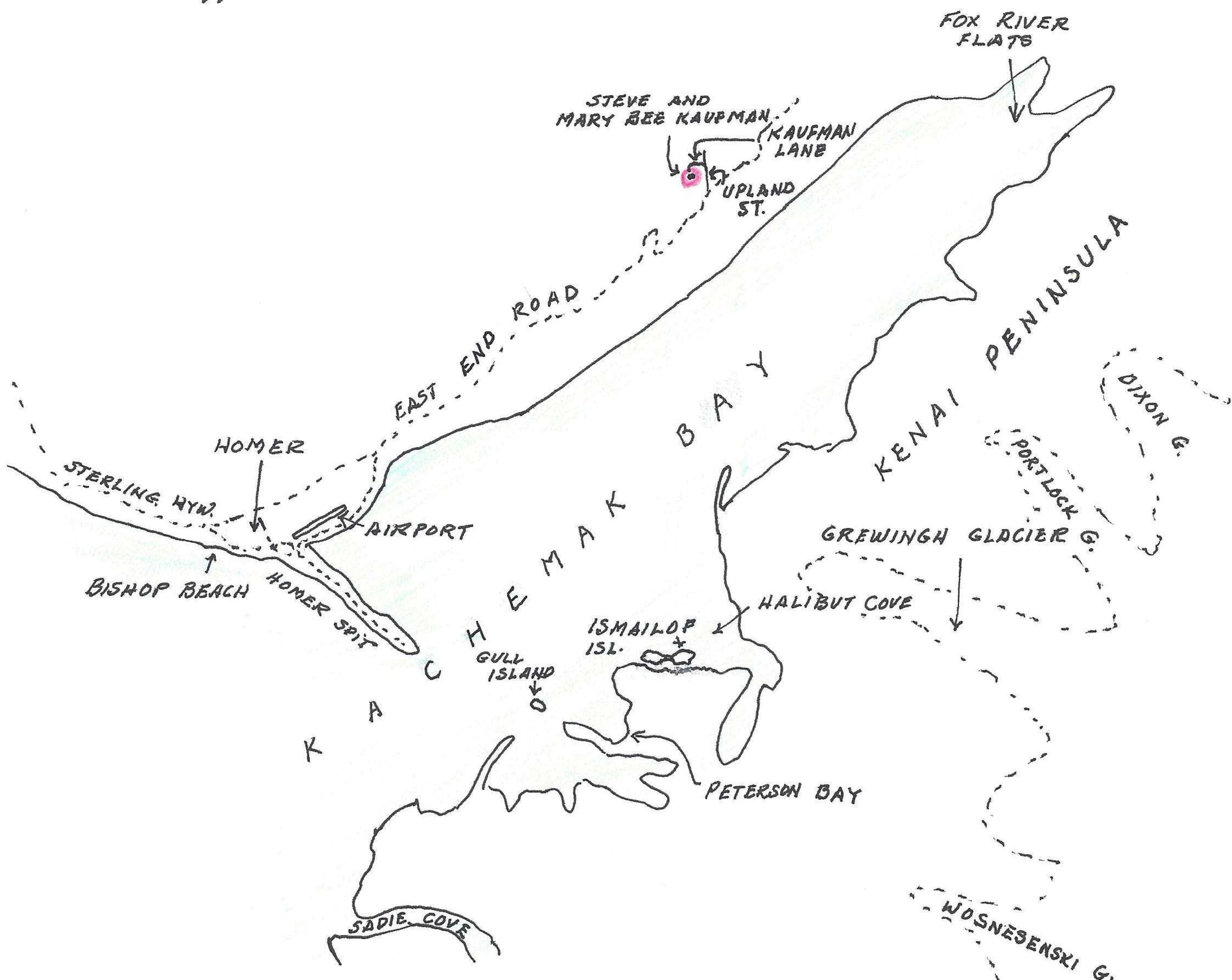
July 8, 1992
Rufous hummingbird still in area.

July 9, 1992
A last year ♀ mule deer froliced among other deer by bucking, running, side stepping and jumping. Ordinarily only fawns participate in this kind of behaviorism.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.

July 12, 1992

Annette and I made trip to Homer, Alaska. Chris drove us to Sea-Tac International Airport. Left 9:29 A.M. by 757 Delta, non-stop to Anchorage. Left-off 9:31 A.M. (35 sec. to air-born). 9:35 AM ^{over} Ballard Locks. Over Olympics and now complete cloud cover to Anchorage, Alaska at 11:47 A.M. (WA. Time). On approach Anchorage area, like Seattle area clear. 11:24 first view of mts. Blue polarized light on horizon entire trip. Steve and Mary Bee Kaufman were at airport on our arrival. ^{and mammals} Birds to Coopers Landing: porcupine road kill, mew gull, red-tailed hawk, 3 Mall sheep, arctic tern. Stopped Helen Rhoad home at Coopers Landing. She is wife of deceased Cecil Rhoad. David is their son, all professional photographers. across lake from Helens Cabin is named Rhoad Mt. Raven, red squirrel there. Arrived Steves home 7:10 P.M. east of Homer, on Kaufman Lane off Upland Street, off East End Road.



Homer, Alaska

July 13, 1992

Mary Bee (Polly), Annette and I left Homer Spit 9:08 A.M. for Gull Island, Peterson Bay and return on Rainbow Boat. Enroute approx 50,000 common murres in rafts W of Gull Island. At Gull Island as close as 30' from boat observed 1 sea otter floating on back with hind feet clasped. did not move when approached by boat at 40' away. Birds on island; (S side)

glaucous-winged gull	(x by 2 for both sides) approx.	200 x 2 = 400
black-legged kittiwake (all cliff exposures)		10 - 15000 x 2 = 20-30,000
horned puffin (on soils near top)		40 x 2 = 80
tufted puffin (ibid)		60 x 2 = 120
pigeon guillemot (in water surrounding island)		10 x 2 = 20
red-faced cormorant (near top)		40 x 2 = 80
pelagic cormorant (ibid)		80 x 2 = 160
common murre (generally distributed but in groups)		300 x 2 = 600

Other birds on trip but not including Gull Island:

marbled murrelet 6	herring gull sp.?
mew gull 18	black oyster catcher 2
bald eagle 1	surf-bird 3
double-crested cormorant 4	arctic tern 3
red-necked phalarope 8	
common raven 4	
song sparrow 2	
black turnstone 18.	

TOTAL = 31460 birds

Roger Tory Peterson on same boat but left at Peterson Bay.

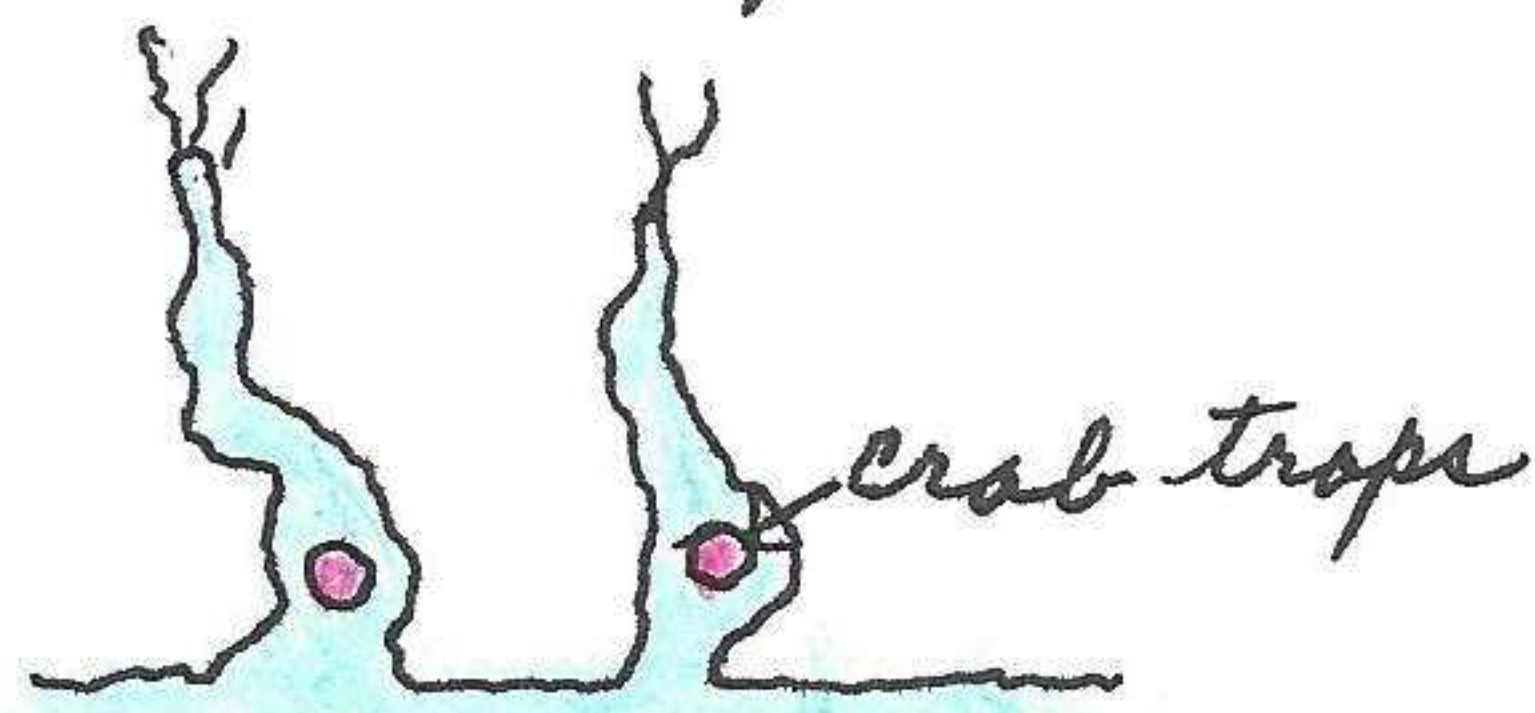
Returned to Homer and this to Steve's & Polly's home.

In evening at Steve's home observed adult ♀ and 5 chicks of the spruce grouse 15' away from the house. Chicks 1/4 size adult. Steve says 1 pr. nests and raises young at his place each year. at Mary's and Steve's home also observed 1 northern three-toed woodpecker, 2 Wilson warblers, 6 savanna sparrows, 2 golden-crowned Kinglet.

Kaufman Estate, Kaufman Lane, Homer, Kenai Peninsula Borough, Alaska

July 15, 1992

James Rosen, a friend of Mary & Steve invited us to set crab traps on Bishop Beach in Homer area. 2 traps are set at low tide and



buoyed with plastic balls with enough rope to accommodate a 24' tide. The crabs are supposed to move shoreward during high tide. Habibut bodies used as bait

Nomer, Alaska.
From low tide on Bishop Beach, collected the following shells:

- 920715-1
- 920715-2
- 920715-3
- 920715-4
- 920715-5
- 920715-6
- 920715-7
- 920715-8
- 920715-9
- 920715-10
- 920715-11
- 920715-12
- 920715-13
- 920715-14
- 920715-15
- 920715-16
- 920715-17
- 920715-18
- 920715-19
- 920715-20
- 920715-21
- 920715-22
- 920715-23
- 920715-24
- 920715-25
- 920715-26
- 920715-27
- 920715-28
- 920715-29
- 920715-30
- 920715-31
- 920715-32
- 920715-33
- 920715-34
- 920715-35
- 920715-36
- 920715-37
- 920715-38
- 920715-39
- 920715-40

920715-4

920715-42

920715-43

July 16, 1992

check crab traps with James Rosen & Pally but no success.
 Glaucous-winged gulls at edge of traps feeding on bait, one bald eagle on sands 100' away. During severe storms sands will shift and completely cover traps up to 18" of sand.

This evening collected 5 grasses and sedges from:
 Lorraine Temple Estate, 10.2 mi. E and 8.2 mi N Homer, Kenai Peninsula Borough, Alaska:

920716-1

920716-2

920716-3

920716-4

920716-5

all from disturbed open field of white spruce savanna.

Homer, Alaska

July 17, 1992

Bald eagle on sandy beach E side Homer spit about 1/2 way of peninsula.

On return to Steve & Mary's home observed 4 sandhill cranes in mowed field N side East End Road between Waterman and Hancock Rds. They were approx 200' from main road. - at me Neil River on main road observed a red squirrel road kill.

at junction of Kaufman Lane and Upland Street observed 5 solitary sandpiper in road and one on power line^{wire}. They bob up and down

collected the following Carexes, sedges and grasses from:
 200' W Kaufman Estate, 10.6 mi. E and 7.9 mi. N Homer (P.O.), Kenai Peninsula Borough, Alaska. (see page 920723-50 for identifications 920717-1 to 920718-9)

920717-1

920717-2

920717-3

920717-4

920717-5

920717-6

920717-7

920717-8

920717-9

920717-10

920717-11

920717-12

920717-13

920717-14

Specimens from open meadow in white spruce forest.
Collected the following grasses from:
E end Homer Spit, Kenai Peninsula Borough, Alaska.

920717-15

920717-16

920717-17

920717-18

920717-19

Above specimens from disturbed and reformed spit.
Collected the following grasses and sedges from:
100' E Kaufman Estates, 10.9 mi. E and 7.8 mi. N Homer (P.O.), Kenai
Peninsula Borough, Alaska.

920717-20

920717-21

920717-22

920717-23

920717-24

920717-25

920717-26

Above plants from disturbed savanna in white spruce forest.

July 18, 1992

Collected following grasses and sedges from:
Shoreline, N side Mud Bay, Homer Spit, Kenai Peninsula Borough,
Alaska.

920718-1

920718-2

920718-3

920718-4

920718-5

920718-6

920718-7

920718-8

920718-9

Above plants from marsh at edge of bay.

Homer, Alaska

July 19, 1992

At residence of Steve and Mary Bee Kaufman on Kaufman Lane, East End Road observed a Clethrionomys rutilus at 8:20 AM in an exposed area 15' from house.

At 9:30 AM an adult mouse with tracks 141 mm in length, crossed driveway ^{100'} from Steve's home. Steve's dog barked but 23 sled dogs 1/10 mi. away at Lorraine Temples home did not call.

at 12:00 PM 4 sandhill cranes in open field between Waterman and Hancock roads.

No crabs in traps. Used salmon heads for bait and one head floated from trap and 2 bald eagles vied for capture of the bait. 13 people on Bishop Beach today.

On way home travelled Skyline Drive. Uplands are extensive.

Homer, Alaska

July 20, 1992

at 9:46 AM Friend of Steve's took us fishing for halibut 7 mi. out W from spit and then N of end Homer Spit but in both cases too much wind to keep bait on bottom of bay. Birds observed; 500 common murre in one flock, 18 glaucous-winged gulls, 43 tufted puffins and 4 red-necked phalarope.

On return home did not see sandhill cranes in usual place.

Homer, Alaska

July 22, 1992

Collected the following plants from: (dominant plants) 200' W Kaufman Estate, 10.6 mi E and 7.9 mi. N Homer (P.O.), Kenai Peninsula Borough, Alaska.

920722-1

920722-2

920722-3

920722-4

920722-5

920722-6

920722-7

920722-8

920722-9

920722-10

920722-11

920722-12

920722-13

920722-14

920722-15

920722-16

920722-17

920722-18

920722-19

920722-20

920722-21

920722-22

920722-23

920722-24

920722-25

920722-26

920722-27

920722-28

920722-29

920722-30

920722-31

920722-32

920722-33

920722-34

920722-35

920722-36

920722-37

920722-38

920722-39

920722-40

920722-41

920722-42

Above specimens from open meadow in white spruce forest.

Collected the following plant specimens from:
NW corner Kaufman Estate, 10.7 mi. E and 7.9 mi. N Homer, Kenai
Peninsula Borough, Alaska.

920722-43

920722-44

920722-45

920722-46

920722-47

920722-48

920722-49

920722-50

920722-51

920722-52

920722-53

920722-54

920722-55

920722-56

920722-57

920722-58

920722-59

920722-60

920722-61

920722-62

920722-63

920722-64

920722-65

920722-66

920722-67

920722-68

920722-69

920722-70

920722-71

920722-72

920722-73

920722-74

Above plants from wet to damp creek bottom among white spruce forest.

moose tracks in creek bottom NE Steve Kaufman residence measured 140 mm adult and 80 mm young.

Homer, Alaska

July 23, 1992

7:05 A.M., moose (ad.) crossed field (S end) below Steve Kaufman's home. It grazed for 20 minutes.

Trip to Homer. Visited Mrs. Bellas she reports never having seen a brown bear at her home along East End Road in last 30 years and only 2 black bear. On way to town no sandhill cranes.

Here is list of grasses etc. which 920723-50
Identification of grasses July 23, 1992 (cont.) you collected.
this date, identified later but included

Mary Bee Kaufman

9/12/92

Kachemak Bay Area Graminoid Collection

Identification by Ed Berg, Botany Department, University of Georgia 30602. Nomenclature and page numbers follow E. Hulten Flora of Alaska and Neighboring Territories, 1968. The family is Graminae unless otherwise noted.

920716-1 Carex macloviana d'Urv. subsp. pachystachya (Cham.) Hult.
(Cyperaceae) p233

920716-2 Luzula parviflora (Ehrh.) Desv. subsp. parviflora
(Juncaceae) p298

920716-3 Phleum commutatum Gandoger var. americanum (Fourn.)
Hult. p88

920716-4 Carex Mertensii Prescott (Cyperaceae) p 261

920716-5 Agrostis exerata Trin. p101

920717-1 grass (no flowers)

920717-2 Vahlodea atropurpurea (Wahlenb.) E. Fries subsp. latifolia
(Hook.) Pors. p115

920717-3 as above

920717-4 as above

x 920717-5 Festuca rubra L. coll. p170

920717-6 as 920716-2 above

920717-7 as 920716-3 above

920717-8 as 920716-1 above

920717-9 Poa lanata Scribn. & Merr. p138

920717-10 Carex Gmelini Hook. & Arn. (Cyperaceae) p258

920717-11 as 920716-3 above

920717-12 Eriophorum Scheuchzeri Hoppe (Cyperaceae) p201

920717-13 as 920716-2 above

920717-14 as 920716-1 above

920717-15 as 920716-5 above

x 920717-16 Hordeum brachyantherum Nevski p191

920717-17 as above

x 920717-18 Hordeum jubatum L. p192

- 920717-19 Elymus arenarius L. subsp. mollis (Trin.) Hult. var. mollis
 p 193 (now known as Leymus mollis (Trin.) Hara)
- 920717-20 Poa paucispicula Scrib. & Merr. p146
- 920717-21 as above
- 920717-22a Bromus hordeaceus L. p178
- 920717-22b Festuca altaica Trin. p167
- 920717-23 as 920716-4 above
- 920717-24 as 920717-22b above
- 920717-25 Carex Bigelowii Torr. (Cyperaceae) p248
- 920717-26 as 920717-7 above
-
- 920718-1 Triglochin maritimum L. (Juncaginaceae) p80
- 920718-2 grass (no flowers)
- 920718-3 Poa compressa L. p 140
- 920718-4 as above
- 920718-5 Plantago maritima L. subsp. juncoides (Lam.) Hult.
 (Plantaginaceae) p833
- 920718-6 Isoetes truncata (A.A. Eat.) Clute (Isoetaceae) p33
- 920718-7 Puccinellia triflora Swallen p162
- 920718-8 as 920717-19 above
- 920718-9 no flowers, possibly Carex Lyngbyaei Hornem.
 (Cyperaceae) p253

Homer, Alaska

July 24, 1992

Boat trip to Halibut Cove, Kenai Peninsula, left 12:35 A.M. from Homer Spit. First stop Gull Island. These town boats, of which there are at least 20-30 a day, plus private boats and kayaks (worst offenders) approach the Gull Island from all sides and from as close as 20' for larger boats and contact by smaller boats. As we approached 2 kayakers cruised the south side and on several occasions disrupted nest with the end of their paddles. At this time approx. 2000 birds were in air on S side island and less than 50 on north side. There should be a law that boats or kayakers can not approach closer than 300' or more. Close contact humanizes birds and disrupts their normal interactions which are adapted for balanced inter-relationships, for example what would result if birds on Gull Island should accept mans trust at 10' away and then translate this trust to interaction with bald eagles who in turn would, ^{also} nest on Gull Island. Both species have an instinctual tolerance for each other and if either species changes this tolerance the interaction will falter. Another example is the sea otter that leisurely floated as tour boat passed 15' away. I hope the otter is more cognizant of a killer whale at such close quarters.

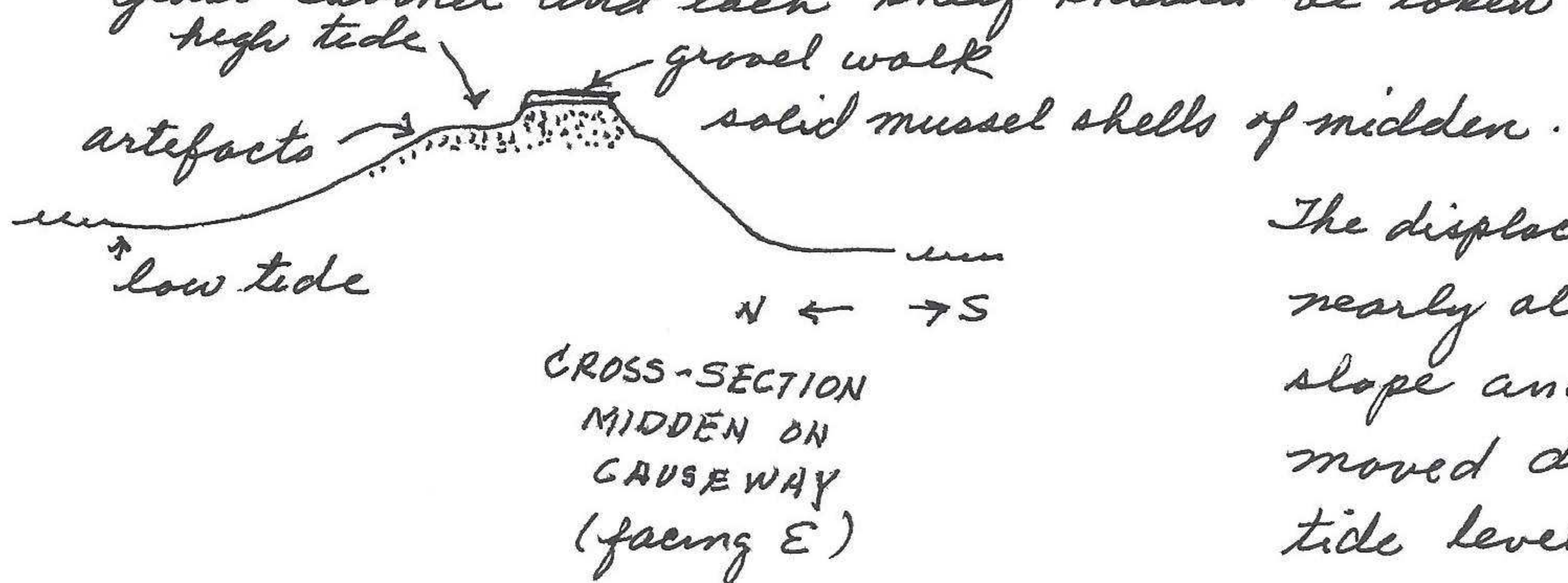
Photos of Gull Island in Kachemak Bay: (film numbered backwards)
 920724-18 Annette, face of cliff with approx 1000 black-legged
 920724-14 E end Gull Island and natural bridge, Kittiwakes
 tufted puffin inhabit soil below vegetation top island. Glaucous-winged gulls dominant bird on outlier to right. Photo to N.

Entering the narrows of Halibut Bay (part of bay S of Ismailof Island). Photo 920724-11 of natural bridge N of W entrance of the narrows. Rocks mainly metamorphic. Sitka spruce miocene plateau N side Kachemak Bay.

Photo 920724-7 at W end Ismailof causeway with gulf sea stamining rock weed, Fucus distichus the blades of the mature plant end in warty, swollen tips that produce gametes. This plant is well developed in Kachemak Bay and is a bright yellow. Steve and Mary live just beyond to E on blue ridge on N side Kachemak Bay.

Photo 920724-6 of residence E side causeway of Ismailof Island.
 Photo 920724-4 Annette and I on board walk in front museum or reception building. We are on W part of Ismailof Island, E end beyond to E. Causeway off Annettes shoulder an Indian midden that extends across causeway. Artifacts from this area (in museum)

collected by David Beck of Habibut Cove, mainly black arrow points, beads, figurines etc, and from below midden on beach after severe winter storms from n. There are four glass shelves in a glass cabinet and each shelf should be taken out and photographed.



The displaced mussel shells are nearly all contained on upper slope and only a few have moved down slope onto lower tide levels.

met Senator (former) Clem Tillion at his home on W end of causeway. We discussed the hazards of the poison hemlock which is in playing area of his grandchildren. He said that his house stands on an old midden site of early Indians. He offered excuses for disrupting his cove shoreline with bulldozer changing it from a natural condition to a disturbed (neater) cove. Enjoy his life in islands instead of living in Juneau.

Collected one plant from Ismailof Island, Habibut Cove, Kenai Peninsula Borough, Alaska.

no 920724-25

From cliffs on shoreline below Sitka spruce forests.

Left 7:34 P.M. for Homer Spit. Before boarding boat collected 3 molluscs from south side causeway between Ismailof Island.

920724-30

920724-31

920724-32

On route across Kachemak Bay did not see any birds, except 2 gulls.

Photo 920724-3 Kenai Peninsula, glaciers and Kachemak Bay from W side of bay near Upland St. East End Road, E of Homer, Alaska.

Northern shrike on utility line on Upland Street.

Informant reports 17 sandhill cranes S of Seaside Farm on East End Road, east of Homer on July 18, 1992

Steve photographed several carvings of his Russian friend Vladimir who is in Alaska to set up a business outlet for his mastodon carvings.

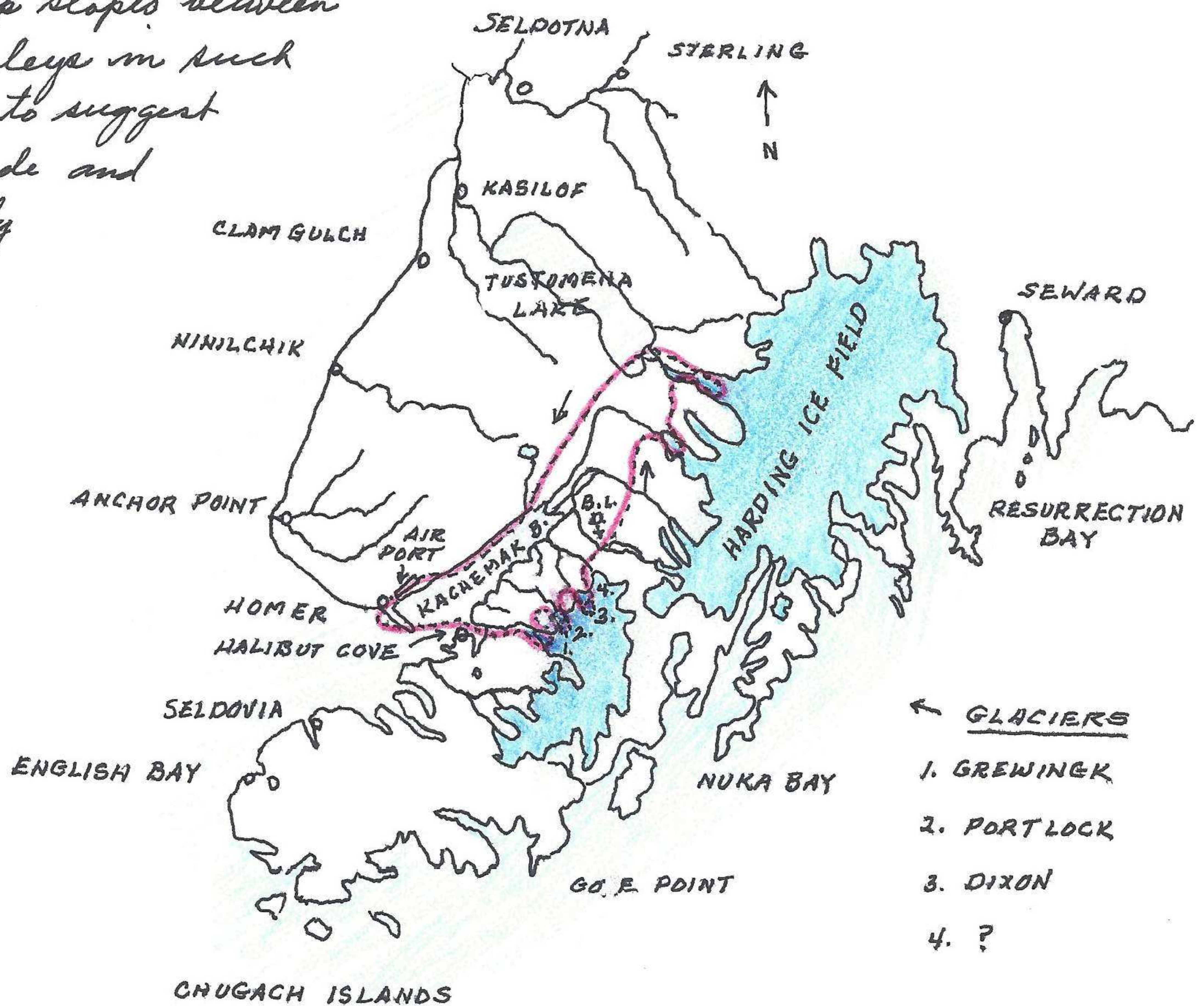
measured adult moose track in drive-way of Steves at 142 mm length.

Other birds and mammals observed on Steve Kaufman Estate are: violet-green swallow, tree swallow, cliff swallow, common raven, boreal chickadee, Steller's jay, golden-crowned Kinglet, white-crowned sparrow, song sparrow, golden-crowned sparrow, bald eagle, 5 sandhill cranes (S of property flying E.).

July 25, 1992

Steve Kaufman gave Annette and me a plane trip (his 180) along E side of Kachemak Bay from Halibut Cove to Tustumena Lake, flying into and out of 5 of the major glaciers (see map). Enroute observed 43 Dall sheep (some could have been mt. goats) and 3 moose. Did not see bears.

Trails led up slopes between glacier valleys in such a pattern as to suggest they were made and maintained by animals.



ROUTE IN STEVE'S CESSNA 180

Homer, Alaska

July 26, 1992

Left Steve and Mary's home for anchorage and flight to Lopez Island in Washington. Birds and mammals observed enroute; 7:45 A.M. left Steves; 8:01 Anchor Point; 8:22 A.M. Ninilchik River; 8:44 A.M. Kasilof River; 8:56 A.M. Soldatna; 9:10 A.M. left Soldatna; 9:15 American robin at Russian River?; 10:13 A.M. Turn Lake, 8 arctic terns; 10:29 A.M. red squirrel; 10:54 at same

elevation as bay; to Portage, 20 arctic tern; 10:30 AM. black-billed magpie at Portage, ice in bay to buildings, if glaciers move again, these buildings will be in jeopardy; 11:39 Sterling Highway again; black-billed magpie; 11:42 porcupine road Kill; 11:48 greater yellow-legs; 3 ducks; 11:51 to Candle Factory and return; marsh wren, 2 ducks, 1 arctic tern, 2 western gulls. 1:50 P.M. Anchorage Airport. Left Anchorage on Delta flight approx. 3:00 P.M. and arrived Sea-Tac International Airport 7:05 P.M. (all same time). Clouds all the way except Anchorage and Puget Sound. Passed over Gulf Islands, W side San Juan Island directly below. Could see Lopez Island. Passed over Port Townsend then to airport. Chris met us and took us to her house on Lost Lake for the night.

Lost Lake, Snohomish Co., wa.
~~_____~~

July 26, 1992 (cont)

Left Chris at 11:54 A.M. 76.5 miles to Lopez Island + 11 miles ferry trip. or 87.5 mi. Enroute 43 glaucous-winged gulls on piling in Ship Harbor (new name for previously use term SW ferry terminal). The Fidalgo Island Company Co of Anacortes was located here with many buildings and drying posts for nets to W.

A trail to beach from ferry terminal was worn by ferry travellers to  and .

A double-crested cormorant alighted on small horizontal cable and remained for 15 minutes.

Arrived home on Lopez Island. no violet-green swallows or humming-birds at Bee House.

July 28, 1992

mule deer, eastern gray squirrel and chipmunks first observed since arriving 2 days ago, having been gone to Alaska for 2 weeks.

July 29, 1992

at 8:22 AM a log 25' long and 1 1/2' in diameter moved with current from 100' SE of Bee House to directly E of Lechem Point or 700 feet arriving 8:32 AM or 10 minute travel time or 70' per minute or .795 miles per hour. wind contra from S. (ripples).

9:26 P.M. large bat active first time this evening at Bee House.

July 31, 1992

4 ♀ adult deer at Bee House, one of which has 2 week old fawn

and ♀ occasionally allowed fawn to nurse.

1 band-tailed pigeon at feeder.

Harbor porpoise on Leo Reef this A.M.

Rache [#] 3-6 18 seal.

Rock [#] 9 9

Nine harbor seal n. Flower Rock.

No glaucous-winged gulls on Flower Island because of disturbance from boats anchored on Spencer Spit, mainly young people in dinghies (sing. dinghy).

Pileated woodpecker in red cedar in upper lot of Bee Estate.

120 mew gulls and 41 glaucous-winged gulls in one group.

young mule ^{deer} (last years) 25" high at shoulder, mother 29" high at shoulders.

August 1, 1992

12:20 P.M. a peregrine falcon flew over Surf Lagoon at approx. 100' high, circled twice more and then left S just above tree tops on Spencer Spit ridge. While at Surf Lagoon 4 or 5 Least sandpipers darted at falcon as the falcon circled over pond. It did not react to sandpipers while in flight.

August 2, 1992

Last years ♀ mule deer 26" high at shoulders.

Aug 3, 1992

Took Grand Banks (Bee) boat to Deer Harbor Boat Works for clean & paint bottom, new zinc and fix sea cockpit. Took 1 1/2 hrs from Shoal Bay to Pole Pass (into Deer Harbor at Resort) and from Pole Pass to Deer Harbor Resort arriving 25 mins. later. On basis of distance from Shoal Bay to Pole Pass. 5.5 mi. in 90 min. at 11 P.M. averaged 3.66 miles per hour.

Bird enroute: pigeon guillemot 4, glaucous-winged gull 12, Bonaparte gull 35, rhinoceros auklet 2, marbled murrelet 6, Common murre 5, belted kingfisher 1.

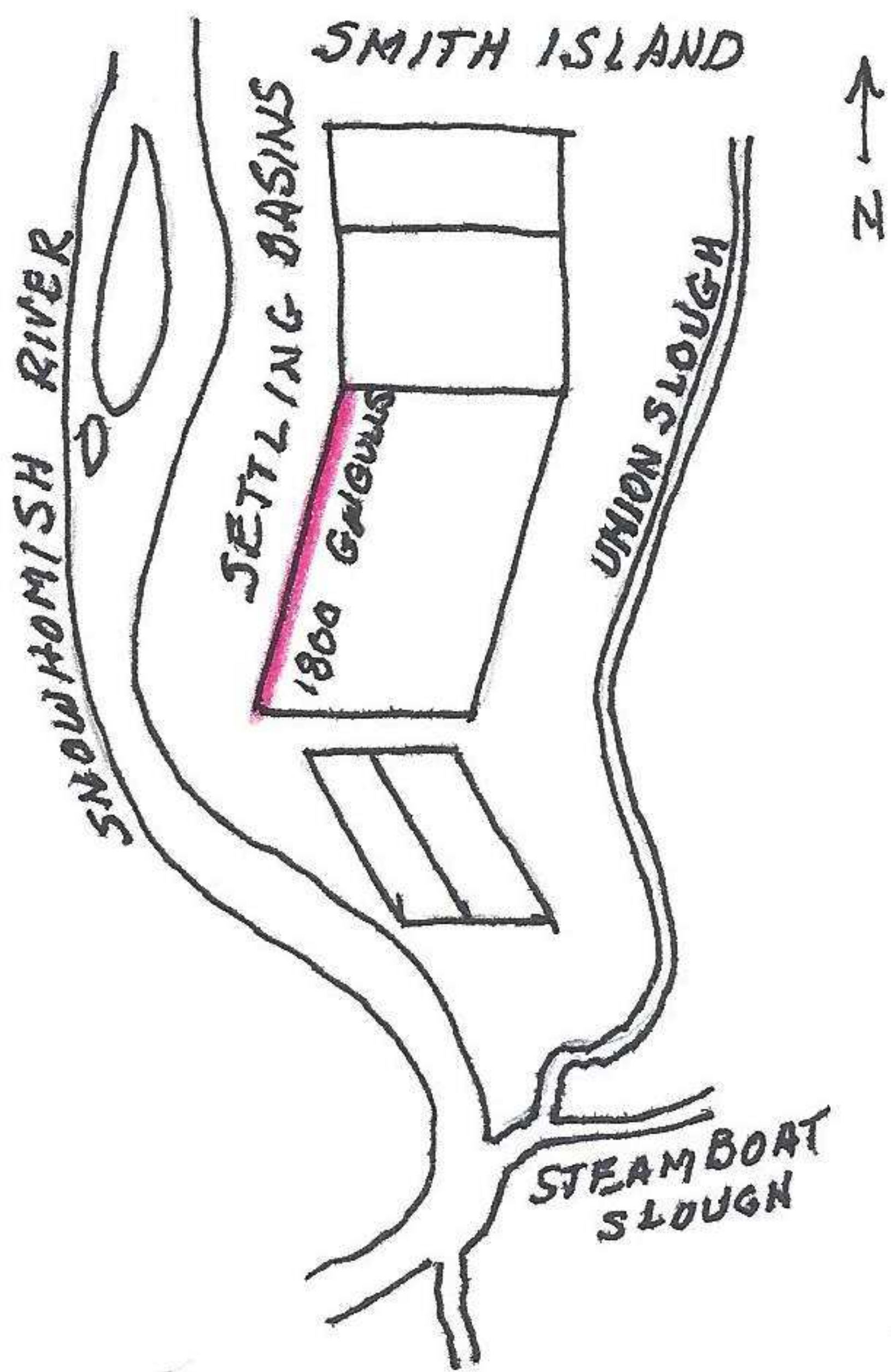
Return to Lopez Island via ferry.

In evening at Bee House. 7:05 P.M. while full light, a ♀ raccoon 1/2 size ^{larger} adults and her 2 young 3/4 size adult performed in Douglas fir tree on SE Porch. Young continually climbed out to ends of branch and adult tried to keep them from exposing themselves to danger and would bite them on the head, neck & body, but such discipline did not keep young from returning to out limb. Female took parts

of whole wheat bread ^{mg} by hand and then left with young in 25 minutes.

Aug. 5, 1992

To med. Center, UW in Seattle and returned. At settling basin NE of Everett on W side of larger middle basin observed 1 gull per 1 1/2 foot of retaining wall which ran 900 yard or 1800 gulls. sp.?



Between Anacortes and Lopez Island via ferry observed: 9 common murre, 2 marbled murrelets, 15 rhinoceros auklet, 3 glaucous-winged gulls up to W Thatcher Pass, then 42 Bonaparte gulls to Thatcher Bay. Log holding area of bay in loop from Blakely Island.

Aug 7, 1992

13 band-tailed pigeons at feeder at Bee House. Number increasing last month.

3 inches apart, 2 inches high.
right antler with knob.

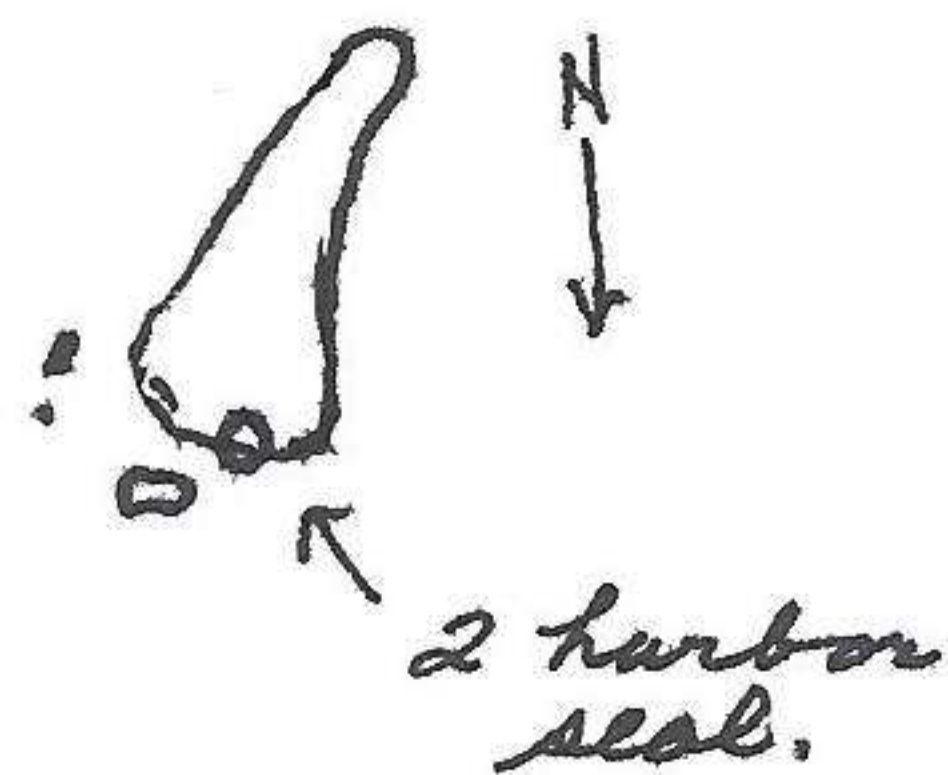


Aug. 8, 1992

Harbor seal on Leo Reef: Rocks #3-6 = 19 ^{flower}
On 77 Flower Rock 15 seals and 2 on main island.

11 glaucous-winged gulls on Flower Island,
2 of them on territories.

Spotted sandpiper in Spring Cove.



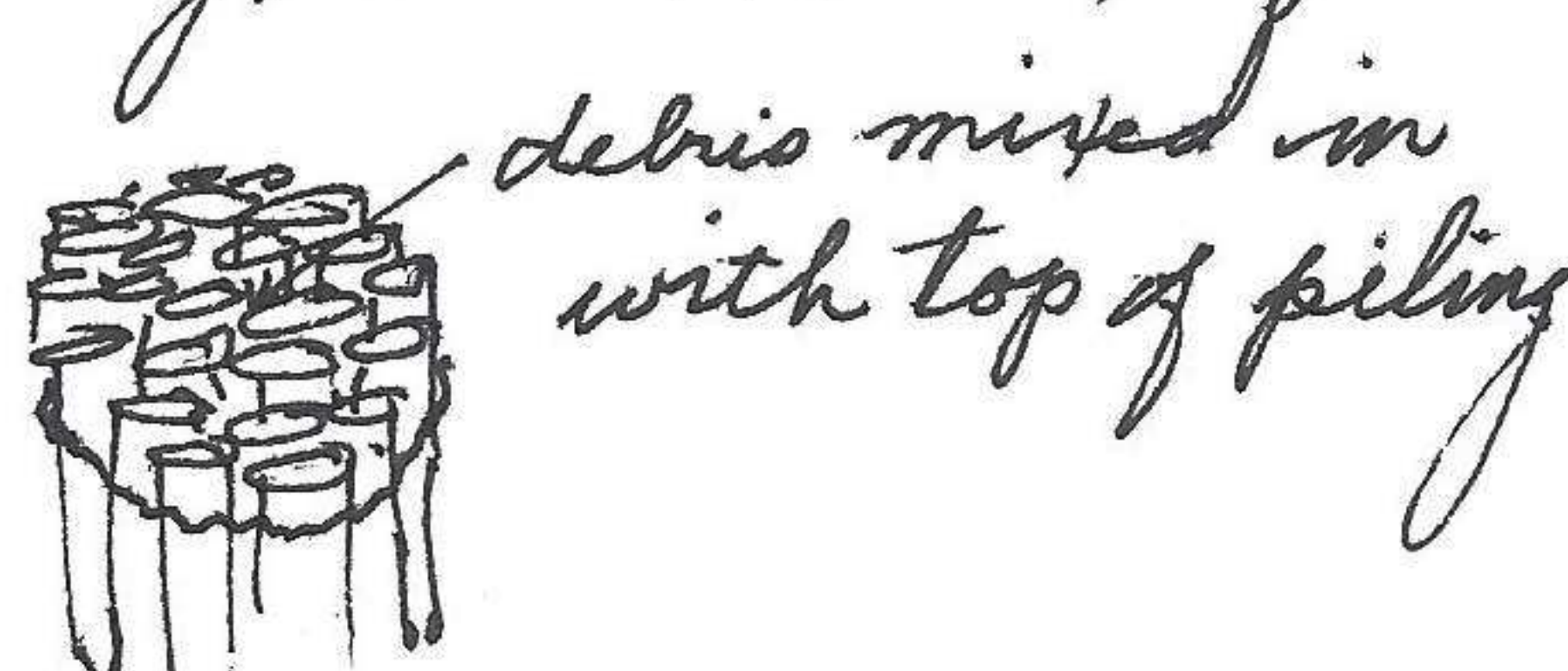
Aug. 11, 1992

12:35 P.M. Harbor seal on Leo Reef: Rocks #3-6, 14 seal; Rock #11 5 seal.

Harbor seal on 77 Flower Rock, 13; Little Flower Rock, 2;

no bald eagles on nest NE Frost Island. no glaucous-winged gulls Flower Island.

Left Lopez Island terminal for Deer Harbor Boat Works to return Grand Banks "Bee". to Shoal Bay marina. At Shaw ferry terminal on head overbeams 2 ^{separate} young glaucous-winged gulls approx 1/2 size adult, one slightly smaller than older one. Also one on top dolphin (right) about 3/4 size adult and panting; no shade except adult gull and half body height tops of piling. See previous journals and notes of other young gulls on Shaw terminal.



Both glaucous-winged and Bonaparte gulls forming separate rafts, some rafts mixed.

at Deer Harbor Boat Works bill \$717.00 for haulout, block, wash, paint, replace zinc, repair seacock.

On return trip: Bonaparte gulls, 185 mainly Harney Channel, N of Show (E end), 1 common murre, 2 marbled murrelet, 8 pigeon guillemot, 6 glaucous-winged gulls.

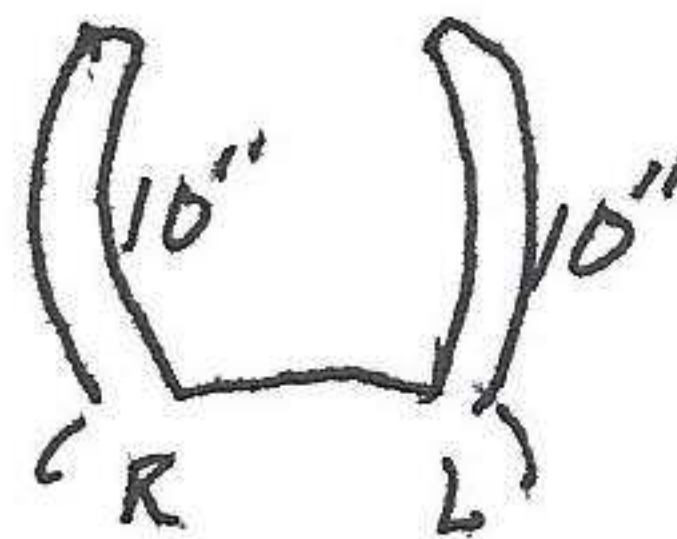
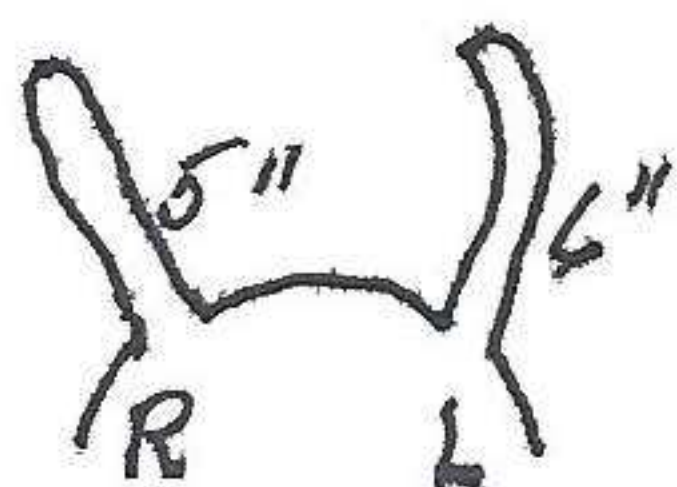
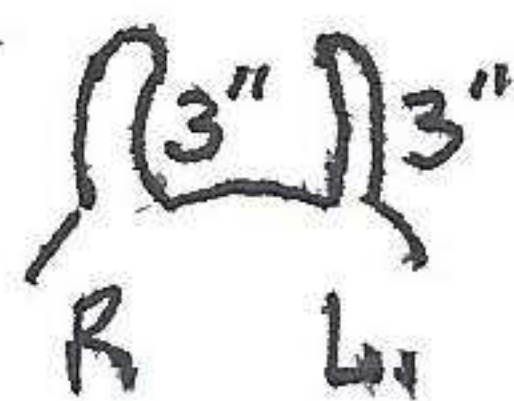
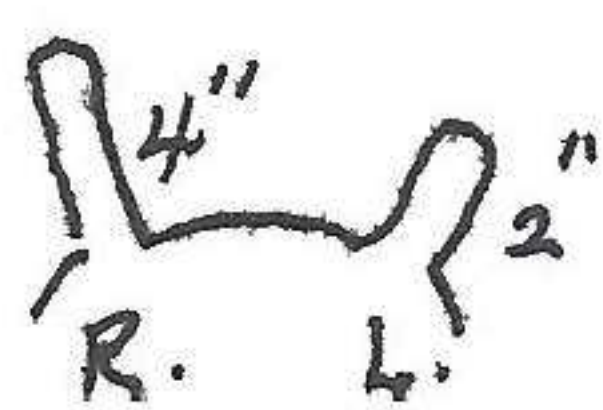
Mileage from Deer Harbor Boat Works to Shoal Bay marina, 7.1 nautical miles in 82 minutes or 5.19 MPH (nautical) at 11 RPM.

Aug. 12, 1992

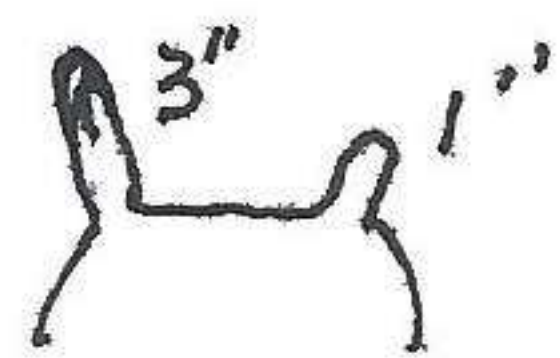
Walked to Lopez Island ferry terminal from Bee House: Left 8:42 A.M., 9:09 A.M. Port Stanley Rd., 9:29 A.M. Center Road, 9:43 A.M. Divide, 9:47 A.M. D.J. Hall entrance, 10:03 A.M. Lopez Island ferry terminal, or 1 hr and 21 min. walk at 2.3 miles distance. or 1.73 miles per hour.

Enroute counted 45 domestic rabbits, mainly small ones. Paul Quinney who lives along Humphrey Lagoon says there was a high population of rabbits about 1984 or 1985. In early days when rabbits were used for food, people traded beer for rabbits, also two days ago he observed 3 osprey and 1 bald eagle in S end Shoal Bay

at Bee House observed following mule deer at A.M. feeding time:



Also at feeder
2 ♀ adults
2 fawns.

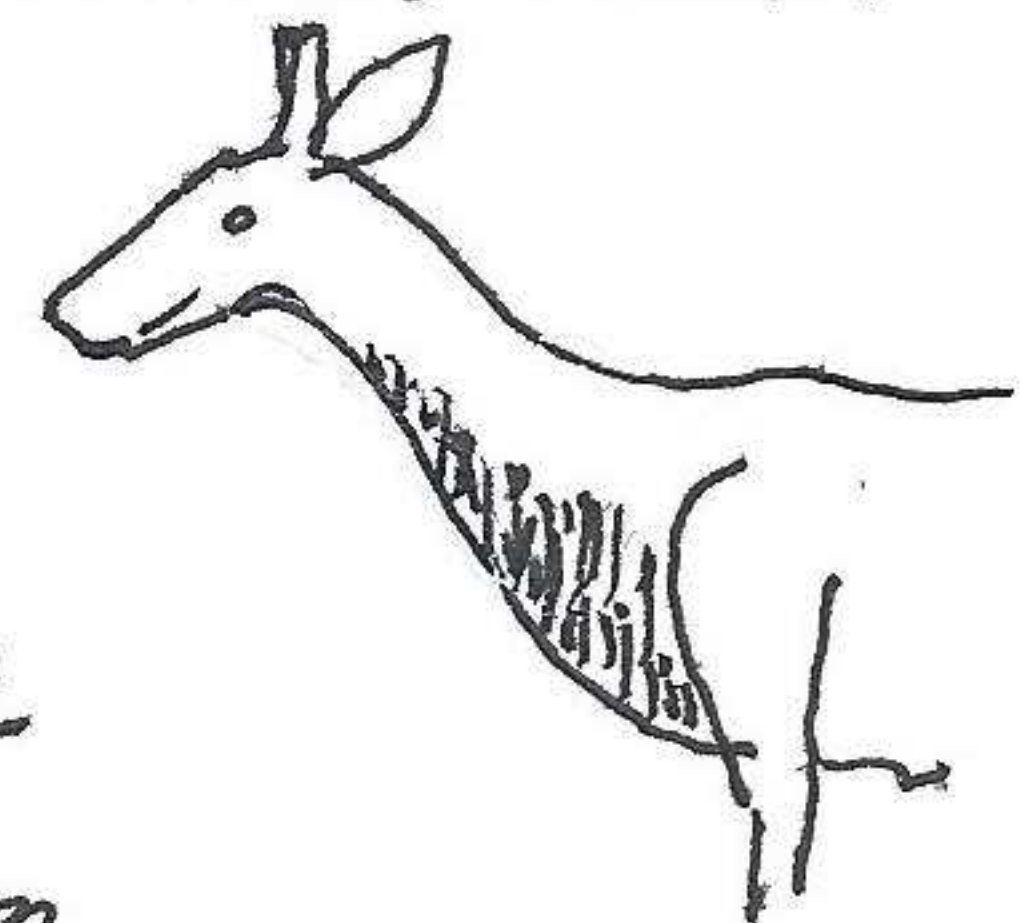


This ♂ has remnants of light, long pelage under neck

All pelage slightly faded from rich golden-brown to a lighter brown in last week time

29" high at shoulder curious of and accepted 1 of the fawn and groomed by me (mother) of adult females.

This deer also at Jensen Lagoon yesterday evening

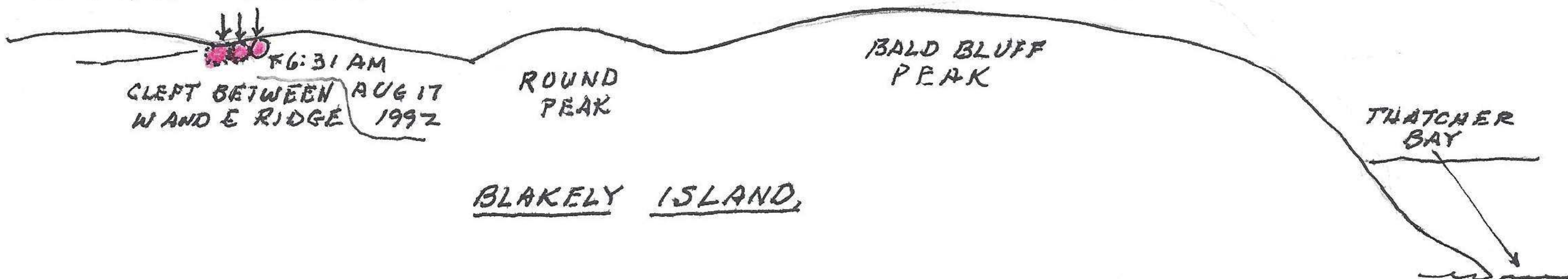


Aug 15, 1992

medium sized raccoon on porch at 2:30 A.M. Play^{ed} with flower pot that held a amarillis bulb and soil. Did not eat bulb, but handles it on its back and side like an immature mammal.

Sunrise over Blakely Island 6:27 A.M.

6:27 AM AUG 15, 1992 6:29 AM AUG 16 1992



Aug. 16, 1992

This A.M. 36 boats moored Spencer Spit, 20 of which are sailboats.
 Collected ant from Gratto Ridge, Bee Estate, Humphrey Head, Lopez
 Island, San Juan Co., Wa: Sunrise 6:29 AM.
 920816-1 ant.

Aug. 17, 1992

Sunrise 6:31 A.M. Spacing 1 diameter apart. 3"-4" travel thru own
 diameter. Jay and party arrived yesterday evening on Duck Sunhaupli
 42' G.B.

my thoughts on the natural world: Pacific Coast Forests, Arctic
 tundra, deserts, marine and community types are each super-
 organisms of the natural world. They result from billion years
 of evolution and are ultimate expressions of climate which in
 turn is dictated by energy from the sun. Each individual
 community or superorganism is dynamically interrelated and
 balanced and is so complex that one may never be able to
 comprehend them. Although man has been on earth
 for less than a blink of the eye, he has the ability to dominate
 and create his own ecosystem. His ecosystem which disregards
 the natural system will be attained only at great effort and
 expense. It will be a world without oxygen and temperature
 extremes will drive him underground. The natural world effort-
 lessly and without cost produces and maintains a viable world.
 The world should be divided into 2/3 natural and absolute
 non-intervention by man, the other 1/3 to be manipulated by
 man to the fullest extent of his abilities but must be
 encapsulated.

10:50 Harbor seal in area:
 32 on Leo Reef Rocks #3 to #6,
 10 on Leo Reef Rock no. 11

13 on n Flower Rock.

no bald eagles in area of nesting tree.

Aug. 18, 1992

Entered genealogical photographs in journal. The following given catalogue number correlated with name and negative number. Most enlarged from postage stamp size to larger portrait photos. ^{APX} Agfa 25 film, 35 mm.

- | | | | |
|-------------|-------------------------|--------|-------------------------------|
| 920818-3 | Mary Culbertson Bee | NO NEG | (but photos) |
| 920818-4 | Jane Bee | NO NEG | " |
| 920818-5 | Jane Bee | N/G | " |
| 920818-6 | Samuel Bee | NO NEG | NO NEG |
| 920818-7 | Frederick Forman Bee | | (The Bee reference is Farmer) |
| 920818-8 | Robert Bee, Grace Bee | NO NEG | " |
| 920818-9 | Samuel Bee | NO NEG | " |
| 920818-10 | Stephen Bee | | |
| 920818-11 | Sarah Bee Meek | | |
| 920818-12 | Alfred W. Meek | | |
| 920818-13 | Sarah Bee | N/G | |
| 920818-14 | Grace Bee | N/G | |
| 920818-15 | Estelle Strickland Bee | | |
| 920818-16 | Emily Clapp Bee | | |
| 920818-17 | William Bee | | |
| 920818-18 | Elizabeth Ann Bee | | |
| 920818-19 | Marion Bee | | |
| 920818-20 | Adi | | |
| 920818-21 | Samuel Bee | | |
| 920818-22 | Edith Bee | | |
| 920818-23 | Mable Bee | | |
| 920818-24 | Lillie Jones | | |
| 920818-25 | Ettie Bee | | |
| 920818-26 | Sarah Bee Meek | | |
| 920818-27 | Alfred W. Meek | | |
| 920818-28 | Milton Meek | N/G | |
| 920818-29 | Catharin Bee | | |
| 920818-30 | Sarah Slaughter Bee | | |
| 920818-31 | Milton Meek, Grace Meek | | |
| 920818-32 | Edith Bee Whitney | | |
| 920818-33 | Frederick Forman Bee | | |
| 920818-34 | | | |
| 920818-35 | Milton Meek | N/G | |
| ✓ 920818-36 | Frederick Forman Bee | | (n/g rephoto & copy) |

Aug. 19, 1992

Continuation of photo recording:

- 920819-1 Milton Meek N/G
 920819-1a
 920819-2 Kate Bee, Sarah Bee
 920819-3 Mary Ann Pullen Clive
 920819-4 Fern Alleman
 920819-5 ?
 920819-6 William Bee
 920819-7 Jane Bee
 920819-8 Samuel Bee
 920819-9 Jane Bee
-
- 920819-11 Sarah Bee Meek N/G
 920819-12 Jennie Bee Jones N/G see 930202-23
 920819-13 Samuel Robert Bee
 920819-14 Etiole Strickland Bee
 920819-15 Robert Bee and Jennie Bee Jones
 920819-16 Samuel R. Bee
 920819-18 James Fenimore
 920819-19 Joy Jones N/G see 930202-25
 920819-20 Bee Irvine
 920819-21 N/G see 930202-
 920819-22 N/G see 930202-25
 920819-23
 920819-24 N/G see 930202-26
 920819-25 N/G see 930202-27
 920819-26 N/G see 930202-28
 920819-27 Mary Culbertson
 920819-28 Etta Culbertson
 920819-29 John Culbertson's children { Ed Culbertson
 920819-30 James William Culbertson { Lee Culbertson
 920819-31 Avelias Culbertson { Angie Culbertson (Champlin)
 920819-32 Margaret Gallagher
 920819-33 Angie Culbertson
 920819-34 James William Culbertson
 920819-35 Alsia Jane Culbertson
 920819-36 Emily Culbertson
 920819-37 Sarah Culbertson Champlin. N/G see 930202-31

left to right.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.
~~_____~~, ~~_____~~, ~~_____~~, ~~_____~~, ~~_____~~
 Aug. 24, 1992

Anna's hummingbird at flowers on porch of Bee House at 2:25 P.M.

Aug. 25, 1992

Sunrise 6:40:25



Left Lopez Island 11:05 AM with Dunkhapt & Hackney in their 42 Grand Banks for Lucia Island via E channel of Orcas, thru Peavine Pass. Birds and mammals observed: 3 common murrelets, groups of 2, 8, 9, 1 common murrelets, 7 rhinoceros auklets, 2 marbled murrelets, 1 glaucous-winged gull. Peavine Pass. 2 glaucous-winged gulls, 24 glaucous-winged gulls and 5 Heermann gulls, 2 cormorants, 8 rhinoceros auklets, 4 common murrelets all in one group. 12 common terns. Vae Bay, 23 Bonaparte gulls, 4 terns (common), 9 Bonaparte gulls, 9 Bonaparte gulls. Off main rip-tide point. Group 12 glaucous-winged gulls, 6 mew gulls, 11 Bonaparte gulls in one group but no alcids. 2 harbor seal. 3 common murrelets, 6 double-crested cormorant. One group 380 glaucous-winged gulls, 19 mew gulls, 120 Bonaparte gulls, 37 Heermann gulls, 4 common murrelets, 30 common murrelets, 12 Thayer gulls. Arrived Echo mouage 12:50 P.M. on 1 1/2" trip for the 18 nautical mile trip or 6.8 M.P.H.

at entrance to Echo Bay 160 glaucous-winged gulls on point. In bay observed: 1 glaucous-winged gull, 2 pigeon guillemot, mew gull, Bonaparte gull, marbled murrelet, cormorant, 2 harbor seal. Two harbor seal 50' apart jumped straight up 3/4 body length and splashed back on water which I had never observed before.

Aug. 26, 1992

Followed trails to W to Fossil Bay and return. Forests more extensive than appear from bay. Collected one unionid, on beach in Echo Bay, Lucia Island, San Juan Co. Wa. Number 920826-1. Islands are made of deformed sandstone and shoreline eroded as a distinct wave cut line. ~~_____~~ without evidence of water level fluctuation. These shoreline are exceptional and should be photographed for rock configuration and surface character from smooth to honeycombed. The sponges, stars are mainly ochre stars and 98 per cent purple. Sunflower stars and several other species in area.

Left Lucia 11:15 A.M., thence W side Orcas, Deer Harbor & home.

Enroute marbled murrelets in groups 2, 1, 2, 2, glaucous-winged gull, common tern, great blue heron, mew gull, Bonaparte gull. Harbor seal, marbled murrelet, common murre, now leaving S end of Fingers. 90 glaucous-winged gulls 1/3 of which are young. SW of Fingers 750 common murres in raft formation. 45 Heermann gulls, 3 red-necked phalaropes, harbor seal, marbled murrelet, glaucous-winged gulls, 1500 common murres, 3 marbled murrelets, 42 common murres, 50 common murres, red-necked phalarope in groups 4, 2, 1, 1, 1, 3 common murres, 5 common murres, 5 double-crested cormorants, swallows, 26 common murre. All gulls flying NE to tidal currents. now W side Oreas, only one small 8" fish has jumped out of water, 3 Bonaparte gulls, 5 common tern, 1 mew gull, 6 Bonaparte gulls, 2 glaucous-winged gulls. N end Jones Island, 2 glaucous-winged gulls, entering Spring Pass, 1 common murre. Arrived Deer Harbor Resort 1:00 P.M. Left 2:45 P.M., glaucous-winged gull, 1 Bonaparte gull. Pole Pass, pigeon guillemot. N Bee Island. Groups 15, 8, 12, 17 common murres, marbled murrelet, 1 common murre. Middle of Shaw Island in Harney Channel, 21 Heermann gulls, 26 glaucous-winged gulls, 1 mew gull, 350 common murre, 11 rhinoceros auklets, 2 common murres, 4 glaucous-winged gulls, 3 Bonaparte gulls, 1 harbor seal, 12 common murres. E end Shaw Island. Lopez Island Ferry terminal 3:30 P.M. Lopez (Shoal Bay marina) 3:40 P.M. or 2 hrs and 40 min travel time or 7.3 M.P.H.

Aug. 30, 1992

Mary, Don, Annette and I to Rosario Resort for brunch and return. Usual birds including 1 raft 220 common murres and groups of other common murres 8, 6, 1, 3, 6, 4, 20, 6, 1, 3.

Aug 31, 1992

Shoal Bay marina
Left 11:30 A.M., Annette, Don and Mary for Deer Harbor and return wasp passage. As we passed Lopez ferry terminal observed fishing group of 71 glaucous-winged gulls 28 Heermann gulls, 11 mew gulls, 6 Bonaparte gulls, 2 rhinoceros auklet, 6 cormorants, 16 common murres, 15 marbled murrelets. Across Upright Head to Shaw Island observed groups of common murres - 2, 20, 7, 2, 1, 14. Arrived Deer Harbor Resort via Pole Pass ^{1:06 P.M.} at 7 miles from Shoal Bay marina to Deer Harbor in 98 minutes at 4.7 nautical miles per hour.

$$\frac{10 \times 60}{90} = 4.7 \text{ MPH (nautical)}$$

On arrival 19 Canada geese left head of Deer Harbor and flew S calling. 8 common tern flying in bay. After lunch left at 2:45 P.M. via Channel W Fawn Island, W Reef and McDonald islands, W yellow Island, thence E thru Wasp Passage to Shoal Bay marina. 11 miles in 135 min or 4.9 nautical MPH. $\frac{11}{135} \times 60 =$ At west reef of yellow Island 450 glaucous-winged gulls, 9 harbor seal and 4 double-crested cormorants, and 8 common murre.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa

Sept. 1, 1992
mule deer ♂ with antlers 9" high, $\frac{3}{4}$ " diameter at base and 31" high at shoulders, ♀. 90% mule deer starting winter pelage, beginning head & ears, back of neck and between shoulder blades and continuing narrow stripe on back.

Sept. 2, 1992

Photos 920902-1 mule deer at Bee House

" 920902-2 " " " " "

" 920902-3 " " " " "

" 920902-4 " " " " "

One ♂ with parallel antlers 1" high, $\frac{3}{8}$ diameter at base and no velvet.
A, bone of antler reddish.
(see next page of Sept 3, 1992)

Sept. 6, 1992

Times of color change: Pally & Steve said color gone on Alaska and eastern Russia. In Homer area, some places just starting, other places well developed. Many said color beyond maximum at Sundance, first of September is prime. Sept. 2 on mainland red maple starting. Some yellow on Lopez Sept. 1.

while madronal berries still green, band-tailed pigeons feeding on them. The birds are just starting on these berries. Since Sept. 1 to date there has been a noticeable change from summer to autumn.



Sept. 8, 1992
mule deer ♂, antlers 1 inch high is changing into winter pelage. All other deer show very beginning of molt or darken under hair of winter pelage.


macrona berries a reddish-orange and band-tailed pigeon still feeding on them, sometimes 10-15 in one tree,


Sept. 3, 1992

Took Don and Mary to ferry terminal (dock in center, Vancouver) for their trip to Alaska via Princess liner. On return just S of end of Chuckanut Drive observed approx. 5,000 mew gulls in field, all generally distributed at approx. every 5 feet apart. Others followed a harrow.

at Odlin Bay, 9 Bonaparte gulls.

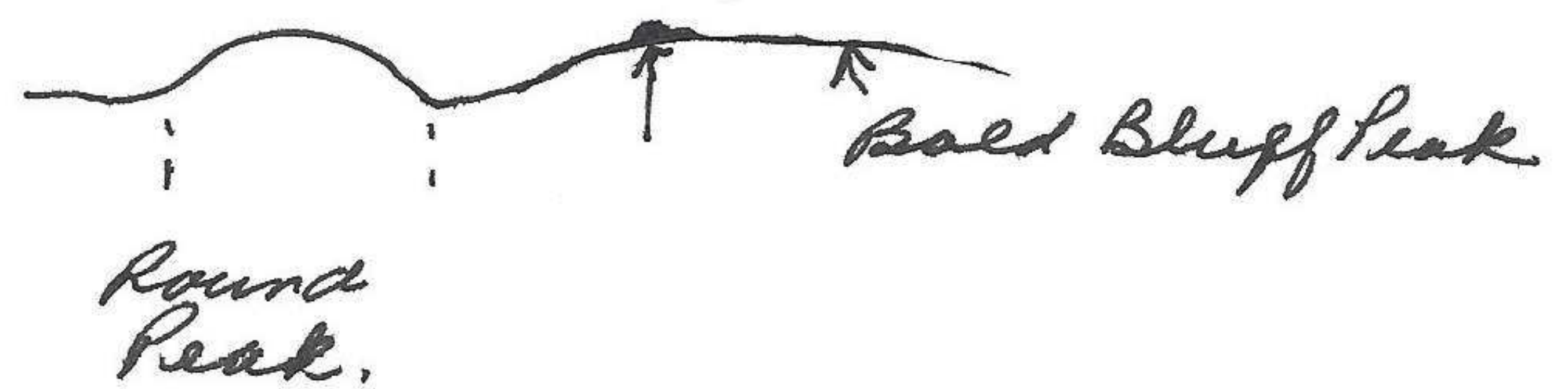
Sept 9, 1992

At Bee House ♂ mule deer  9" high antlers (no velvet), call, ^{for} 20 min from 6:30 to 6:50 AM. 4 other deer, ♀, were in area. The call is a 4 note downward cadence as a slurred moan with emphasis on first note, medium pitched. It was usually repeated every 34 seconds but varied ^{up} to 20 seconds intervals at times. The ♂ remained in same position.

When mule deer come to feeding area they raise their tails perpendicularly. The above male carries its tail completely re-curved over its back 

This AM while deer were feeding the dominate ♀ and her fawn left hurriedly and all remaining 10 deer followed at the same moment. They left the area.

This morning sunrise 7:05 AM



Sept 11, 1992

Harbor seal on rock in area:

Leo Reef Rocks # 2-6.	24
Leo Reef Rock # 9	9
7 Flower Island	32
Little Flower Island	2
	<u>69</u>

Glaucous-winged gulls:

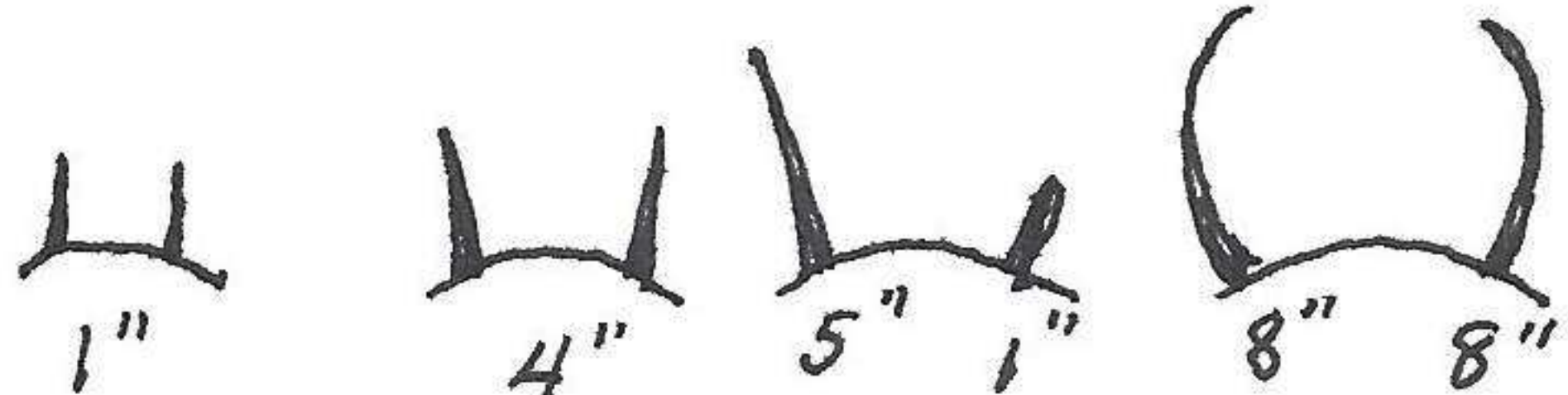
Leo Reef Rocks 2-6	=	210
Rock no. 9	=	12
" " 11	=	<u>11</u>
		233

Coopers hawk flew N 50 above water past Bee House.

♂ mule deer 27 1/2", antlers 3/4". This deer a foreigner to area and was displaced by large ♀, first after odor recognition.

♀ mule deer 29" high at shoulders in rich golden brown of summer pelage except 2" spot of gray between shoulder blades.

male mule deer in area group:



all bone except no. 3 which is
in velvet. No 3 also 29" high
at shoulder.

at 9:12 A.M. this morning:

24 harbor seal on north Flower Rock
16 " " " Big Flower Rock
6 " " " Little Flower Rock
16 " " " On Rocks nos. 3-6 Leo Reef.
Also 123 mew gulls on Leo Reef, 3 on Big Flower Island and 2 on
Little Flower Island, 15 mew gulls on Flower Island.

Sept. 12, 1992

Left 9:22 A.M. for Chris' at Lost Lake to pick up Jay van and re-
turn to Lopez.

Sept. 13, 1992

Left Chris with van for Lopez. at approx. 1 mi. along Elliott Rd
from Welch Rd junction, observed 71 Canada geese in pond at end
of Anderson Creek.

Sept. 15, 1992

Trip to N. Cascade circuit - highway 9, Cultus Lake, Manning State
Park, highway 97 thru Okanagon, Omak, Leavenworth, highway 2,
Stevens Pass, Lost Lake and Lopez Island to see fall colors.

Previous trip 3 weeks later than this trip.

Left Lopez ^{2:30 P.M.} at mileage 3468 and stayed at Thousand Trails Preserve
first night. Common loon called in evening and 8 ring-billed
gulls on shoreline. 3 gun reports of shooting crows from preserve.

Sept. 16, 1992

Left 3:30 P.M. and drove to Cultus Lake, Canada via Bellingham,
thence to highway 9, thence highway 1 in Canada to lake, arriving
5:36 P.M. or 133 miles from Lopez.

Sept. 17, 1992

at Cultus Lake ^{send} no birds or mammals except 2 Tamiasciurus douglasi
Left 1:15 P.M. to highway 1, thence to Hope, thence 3 to Princeton thru
Manning Park and at Hedley, first appearance Chrysothamnus (in
blossom and few miles later Artemisia. also first black-billed
magpie. Oroville 4022 at 7:30 P.M. or 221 miles today or
487 miles from Lopez Island.

Sept. 18, 1992

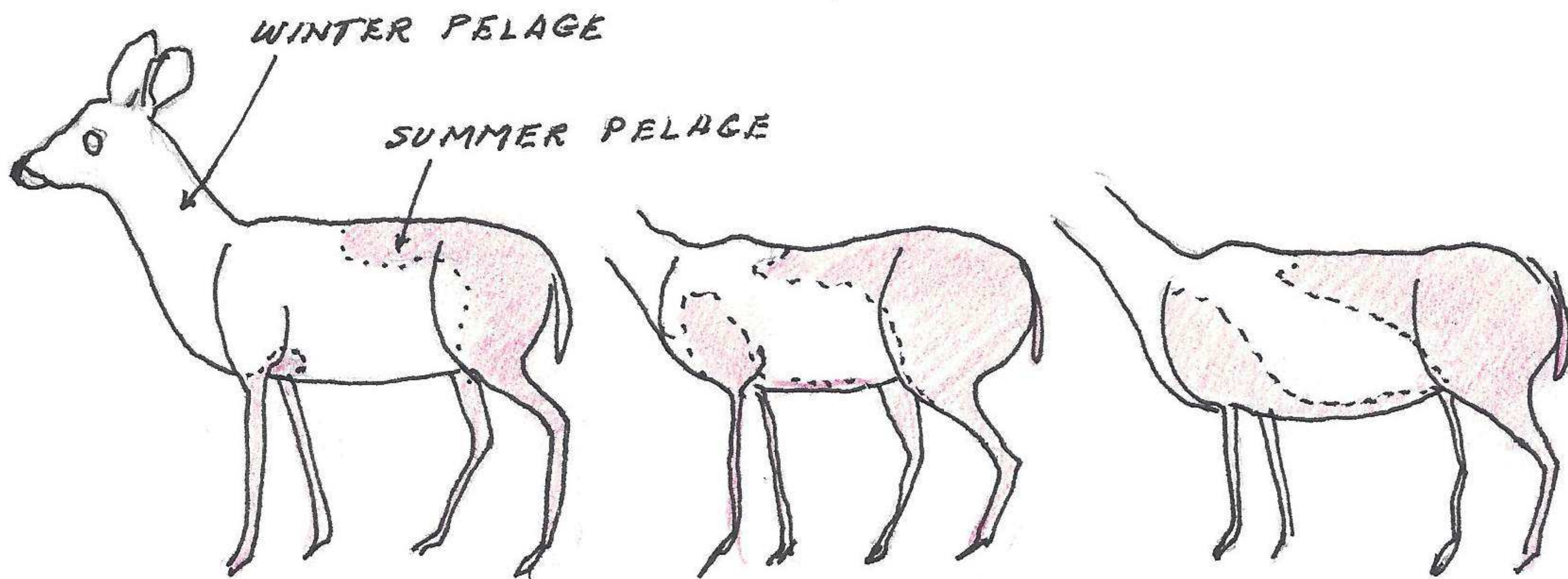
Left Oroville, Wa, 7:44 AM. At Ellsforde first sparrow hawk. Other birds so far: 2 common raven, 4 sparrow size birds, 2 American crows, flock Brewers blackbirds, 7 goldfinch. While crossing US-Canada border yesterday noted one flock 18 California quail and one flock 7 Calif. quail. Along Columbia River, Canada geese, ducks, great blue heron, Steller's Jay and California quail. Arrived Leavenworth Thousand Trails Preserve at mileage 4214 or 192 miles today.

Color of foliage early, more advanced in Canada. Vine-leaved maple major color and maximum.

Sept 19, 1992

Leavenworth Thousand Trails Preserve. 4 Chickaree in camp. Left for Lost Lake at Chris' on highway 20. Vine maple color maximum to divide of Cascades and mainly on upper slopes in avalanche tracts and open slopes. 3 weeks too early for maple and aspen. Understory changing. To Stevens Pass, 8 juncos, 8 common raven, 1 chickaree. Stopped Chris' then to Lopez Island.

Sept. 21, 1992



Sept. 23, 1992

Leo Reef - Rocks [#]3-[#]6 = 9 harbor seal.

N Flower Rock = 14 " "

Sept. 24, 1992

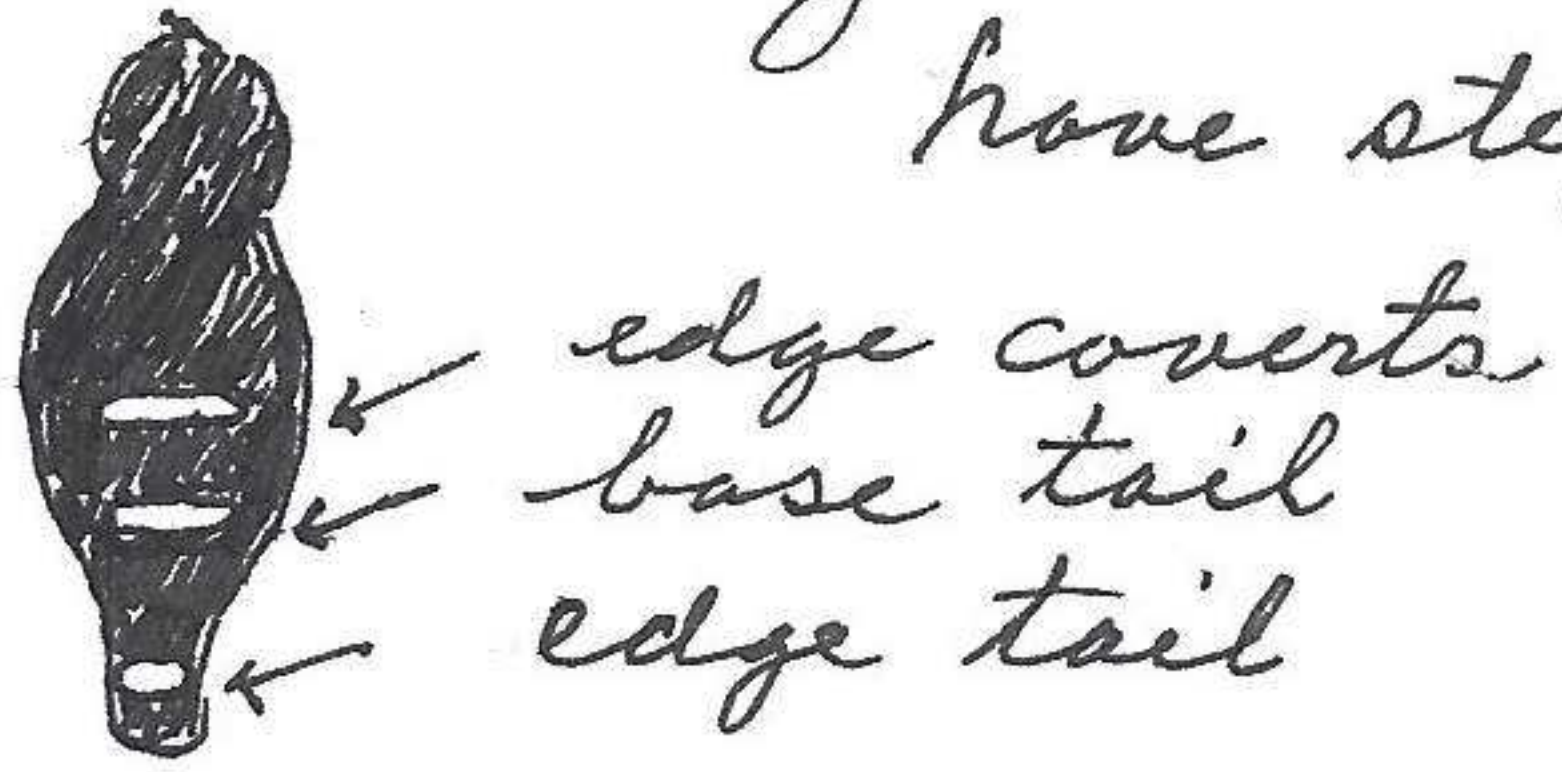
Rain all night and this A.M.

at 9:55 A.M from Bee House; 21 Herrmann gulls on Leo Reef and 12 pelagic cormorants; 25 plus 16 harbor seal; 25 harbor seal North Flower Island; no gulls on Flower Island, no bald eagles on nest NE Frost Island.

2 American robins fed on berries of madrona tree.

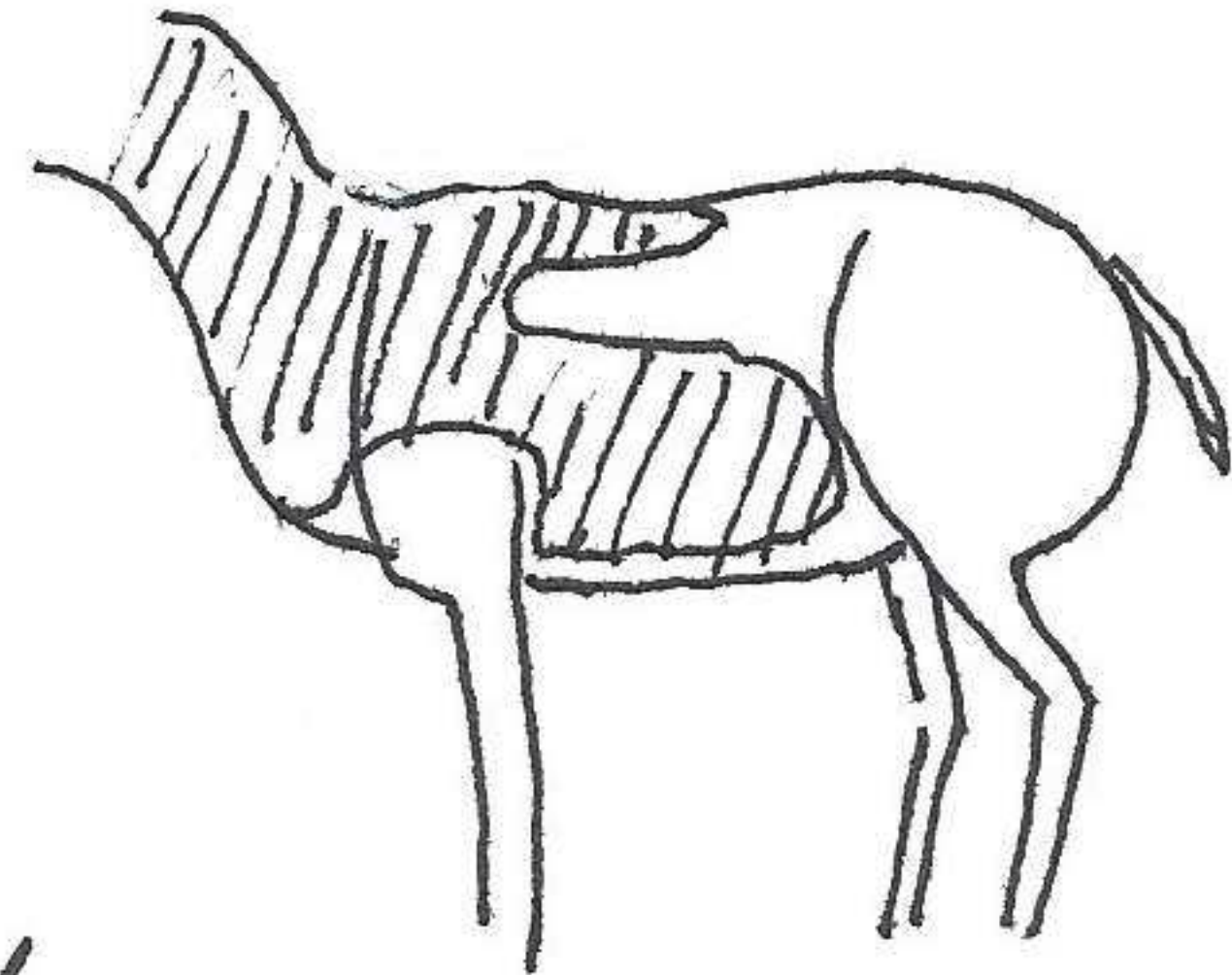
11:25 A.M. 21 harbor seal have oriented themselves on Leo Reef to take advantage of protection of SW winds. 13 harbor seal on n Flower Rock.

Herrmann gulls when viewed from rear when on ground or water have stepladder design. Wing tips lighter.



Sept. 26, 1992

First bat 7:30 P.M. 6 mule deer on bedding grounds SE Bee House, adult displaced fawn but did not occupy bed, fawn returned. Spiked (2") mule deer ♂ displaced ♀ and took over bed. Have observed 2 mule deer lick backs of ^{wild} domestic rabbits on feeding grounds. Ad. ♀ mule deer (29" high at shoulders) least development of winter pelage.



Sept. 29, 1992

Early twilight sky bright, ^{light} brown.

Sunrise 7:22 A.M. at notch on Bald Bluff.

Last night northern lights NE Blakely, water quiet and stars reflected from water were pinpoint and same size as above.

Waters absolutely flat and calm.

A male mule deer  with antlers flat instead of round.

It displaced all deer and was respected as dominant. Townsend chipmunk fed to within 1" of deers feet, eastern gray squirrel to 6"-8".

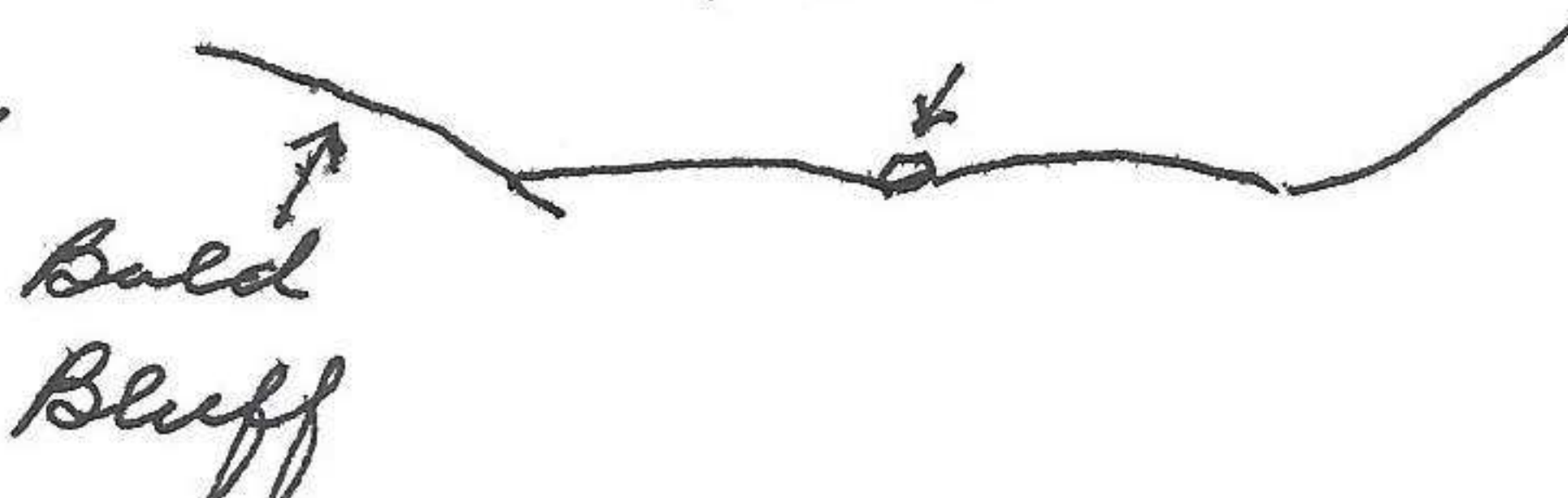
Oct. 3, 1992

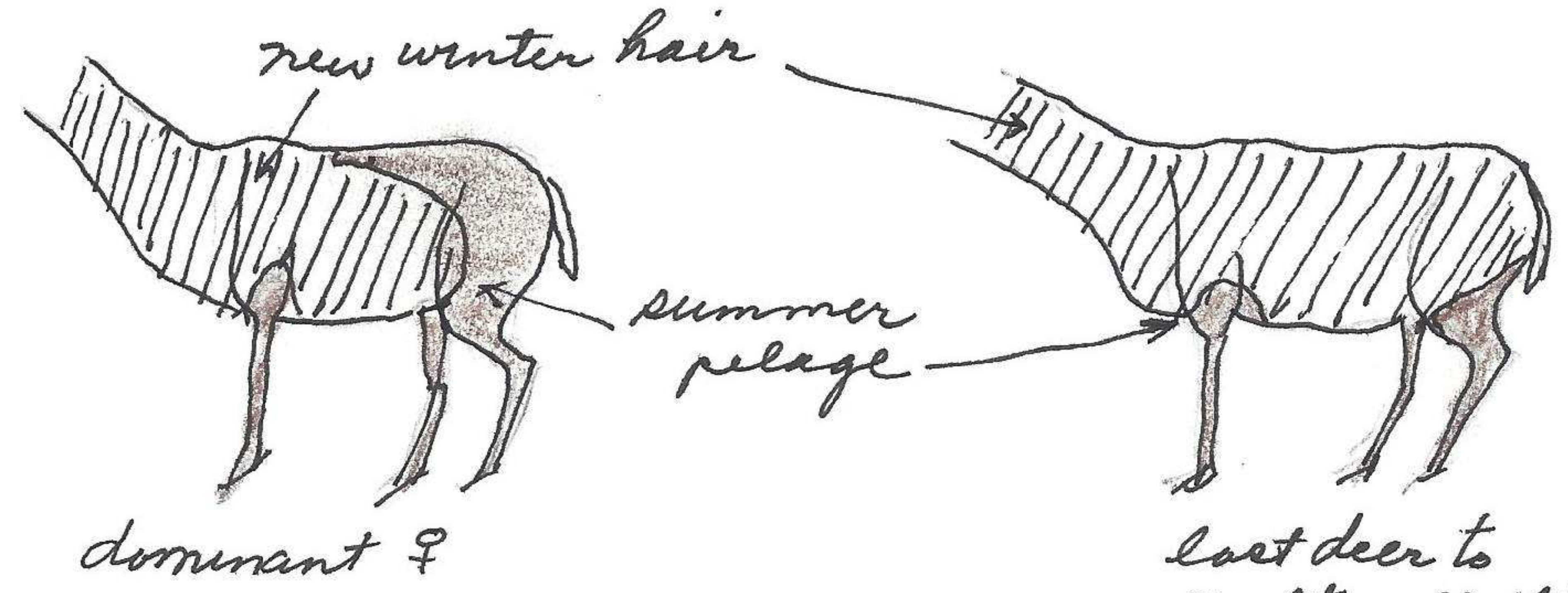
Collected an eastern gray squirrel 150 S of SW corner Bee Estate, on Shoreline Drive, Humphrey Head, Lopez Island, San Juan Co., Washington (road kill): (introduced form).

921003-1 Sciurus carolinensis 483-223-61-28-710gms, testes 18mm.

Oct. 4, 1992

7:27 A.M. sunrise





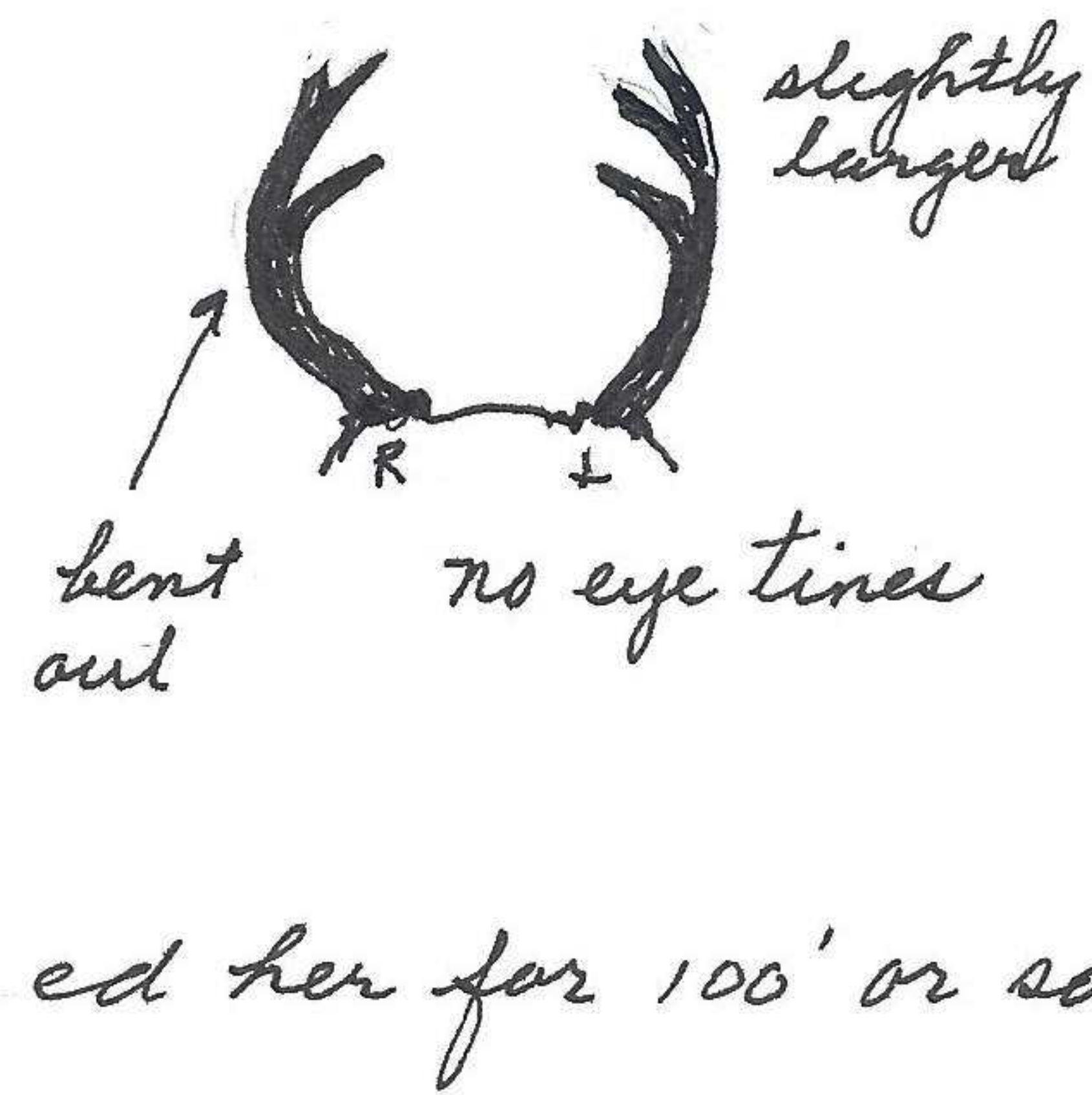
last deer to molt, all others 90% in winter.

11:00 A.M. 27 harbor seal on Leo Reef at low tide, also 8 cormorant, 2 glaucous-winged gulls.

during most of day 1-5 American robins visited regularly the madrona trees on waterside of Bee House. They ate madrona berries at Swift Lagoon, 61 longed-billed dowitcher (sp.?), 6 green-winged teal, 5 northern pintails.

at Lopez Village, red-tailed hawk perched top dead conifer above community center.

Oct. 6, 1992.

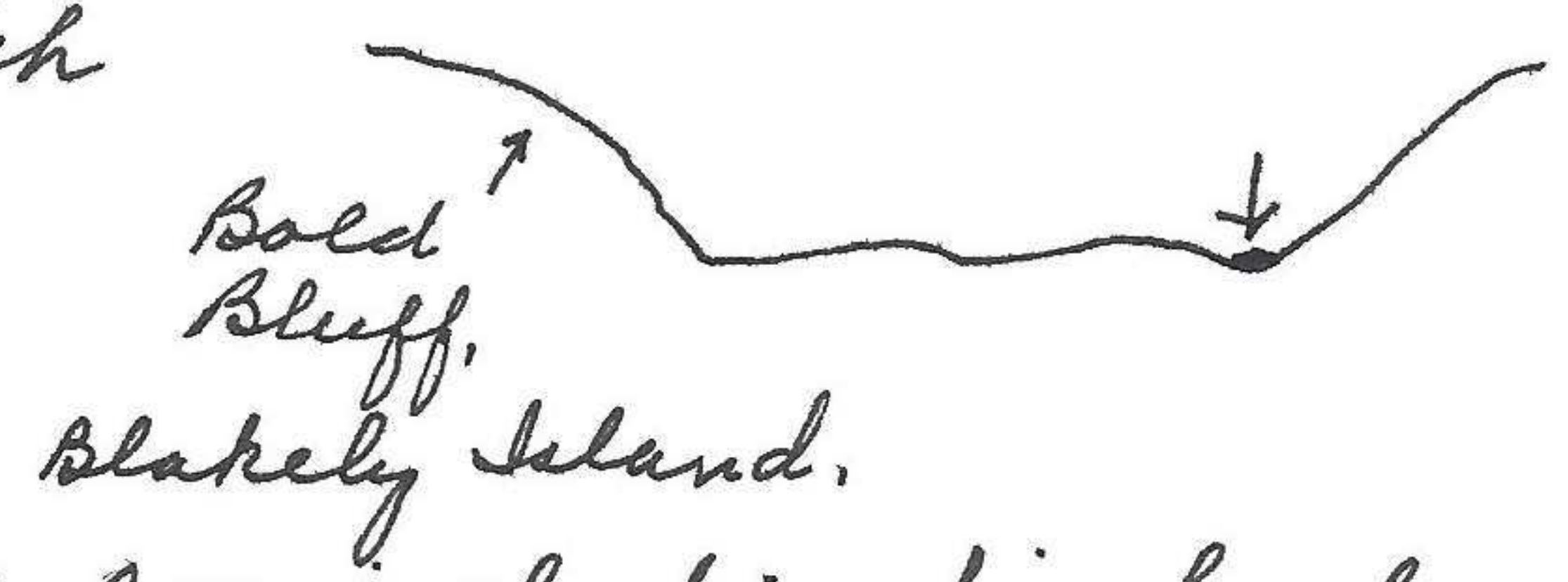


♂ mule deer 35" high at shoulders. 98% in winter pelage, time to 20'.

mule deer a smaller buck (sketch of small antlers) chase a foreign ♀ mule deer from feeding area and the larger buck followed her for 100' or so.

Oct 7, 1992

Sunrise 7:33 A.M at notch



8 mule deer at feeder this A.M including big buck. The smaller 10' high antlered buck not present but has been in area last 2 days.

Oct. 12, 1992

Since Oct 4 the original number of dowitchers has decreased gradually from 61 to 8 today. Largest ♂ mule deer (35" high at shoulders, see above) spent 1/2 time

feeding at Bee House and 1/2 time pursuing ♀ mule deer by testing odors. no aggressive action.

Between Bee House and Lopez Village one normally sees 1-5 American robins, probably family groups. In last 2 weeks the numbers have increased to flocks of 10-200 individuals.

at Swifts Lagoon 6 dowitchers, 14 shovellers, 4 northern pintails and 4 green-winged teal.

On E side Fisherman's Bay Causeway: 73 black-bellied plover nesting in vegetation (*Salicornia*) at edge of bay; 1 great blue heron, 6 green-winged teal, 4 northern pintail. On W side causeway: 12 mew gulls feeding at edge (in water) of beach.

1 sighting bald eagle yesterday, 2 today. They are increasing in numbers.

13 mule deer at Bee House including (♂) (♂) (♂) (♂) (♂) (♂) (♂) (♂) (♂) (♂) (♂) (♂) (♂) males. all members of local group and larger bucks making appearance. all bucks are probably members of local group. Bucks dominate according to size. when largest ♂ present all others leave feeding area. at one time 8 ♀ mule deer and one medium size ♂ fed together. The ♂ held tail straight up and slightly recurved beyond anteriorly, whereas all ♀ held tail down a close to body.

One golden-crowned sparrow at feeder.

Oct 15, 1992

Annette, James and I to St. George, ^{via car} thence Lawrence Kansas and return to Lopez Island by air. Left Lopez Island at 7:25 A.M. at mileage 5031 on odometer. Fog in Carnation Valley. ^{american} 12 crows in fields. onto Interstate 90 at 8:05 A.M. 8:28 A.M. mt. Baker Snoqualmie national Forest, so far on 90, 4 American crows

W Summit 8:40 A.M. 8:49 E end plateau, no down grade, 1 Steller jay, 8:55. 2 common raven, now bottom grade.

Wenatchee National Forest (leaving). ^{S end Ellensburg} ↑

9:20 A.M. John manastash Ridge Rd. ↑ First black-billed magpie
Dray fox? road kill.

10:33 Yakima, 2 black-billed magpies.

2:04 Oregon State line. 2 red-tailed hawks to Buffalo junction, now 2:07 P.M. Left here 2:37, 5 miles S first horned larks.

3:01 P.M. 7 mi. on Better Creek, golden eagle.

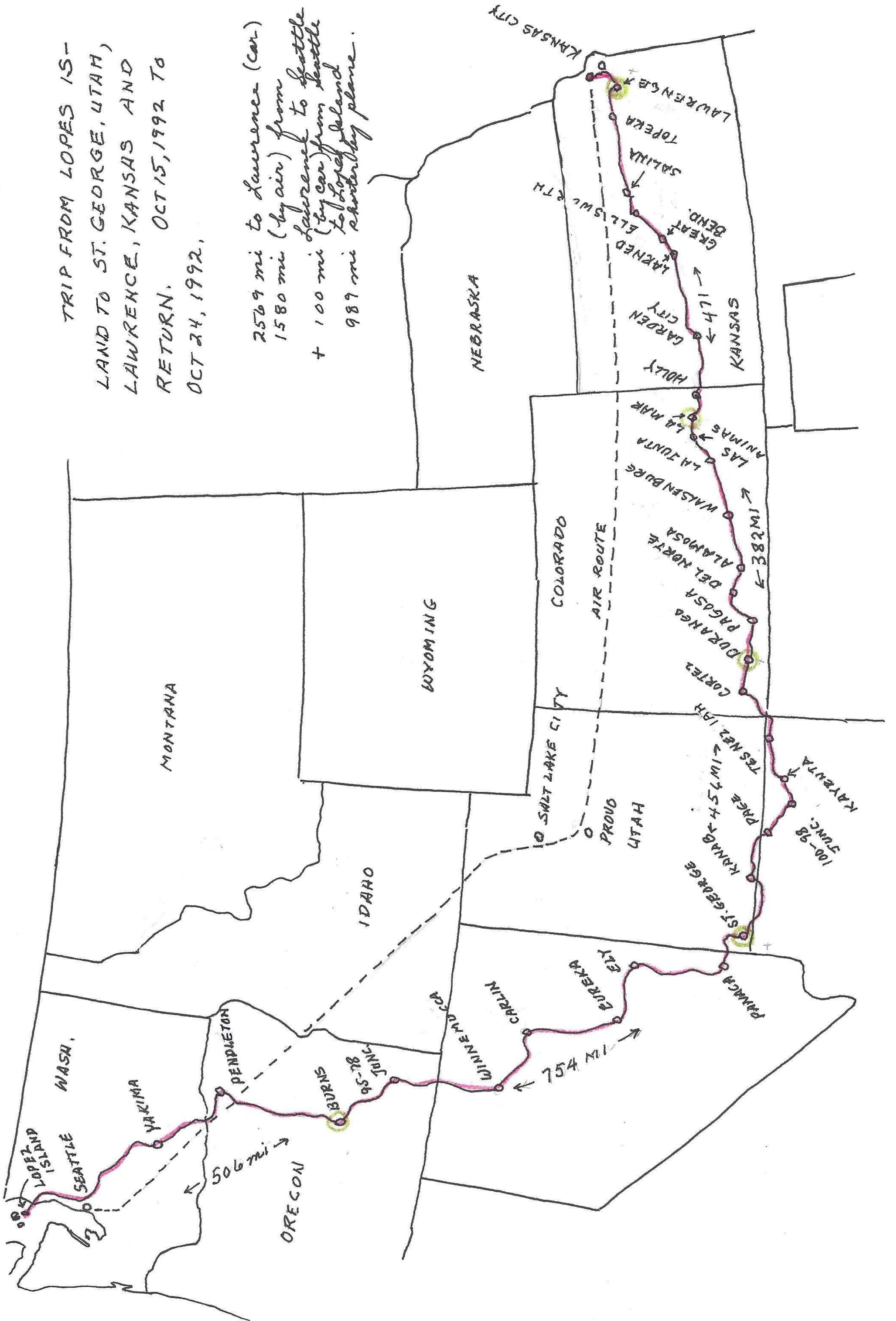
3:25. mile past 83, Coyote road kill.

2 miles beyond Summit, 28 mule deer one group. 6 more mule deer between Summit and Fox on highway 395, 2 red-tailed hawks.

at Mount Vernon, one group 3 mule deer and one group 15 mule deer.

TRIP FROM LOPES IS-
LAND TO ST. GEORGE, UTAH,
LAURENCE, KANSAS AND
RETURN. OCT 15, 1992 TO
OCT 24, 1992.

2569 mi to Lawrence (car)
1580 mi (by air) from
Lawrence to Seattle
+ 100 mi (by car) from Seattle
to Lopez Island
989 mi shorter by plane.



1 1/2 mi N Leneea at 5:52 P.M., observed 98 antelope in one group.
6:35 P.M. Burns. at mileage 5537 or 506 miles today.

Oct 16, 1992

Left Burns 6:30 A.M. 10 miles E 10 mule deer and one great
horned owl, rough-legged hawk.
at 10 miles S 2 red-tailed hawks and 2 photos of sky color of
pre-dawn.

921016-1

921016-2

7:28 raven at first hills.

7:45 raven.

7:53 rough-legged hawk and raven.

8:55 Golden eagle.

8:56 " "

9:00 A.M. Burns Junction, left 9:37 A.M.

9:39 raven 9:53 2 raven

mile post 83, rough-legged hawk on highway 95.

mile post 90 Golden eagle.

mile post 104 rough-legged hawk (2).

mile post 106 2 red-tailed hawks, ^{common} 2 raven.

mile post 109 9 common raven, 1 red-tailed hawk.

mile post 116 5 common raven.

mile post 118 8 common raven, 2 black-billed magpie, 2 red-tailed hawk.

mile post 120 common raven, 1 red-tailed hawk, 2 common raven
and 1 golden eagle.

9:47 Nevada at Mc Dermitt, golden eagle,

10:56 raven

11:14 Orovada, black-billed magpie

11:57 common raven.

12:00 Winnemucca, left 1:20 P.M. Between here and Carlin on
Interstate 80, 1 common raven, 2 common raven.

Carlin Nevada now S on highway 278. golden eagle, 2 raven.

Union Pass, coyote road kill, raven, raven nest in utility pole.

From Eureka to Ely, 2 raven, arriving 6:00 P.M. Left 6:30 P.M.

Photo 921016-3 pink sky at 7:21 P.M. just beyond divide. Continued
S on 93 to Panaca 3 jackrabbit ran across road as we
neared Panaca.

From Panaca continued E on 319 and 3 mice ran across road and 1
Dipodomys as we neared the mouth of Canyon.

Arrived St. George via 319, 18 from Pangua, all after dark, mileage 6291 or 754 miles today or 1260 miles from Lopez Island. Stayed at many & Dons at Green Valley Condominiums SW of St. George.

Oct 18, 1992

Left St. George 10:00 A.M. Antelope Chippmunk & roven.

Hurricane, red-tailed hawk. Route 59 SE.

9 mi W Pipe Springs, 3 roven. 2 common roven W side Indian Reservation, 2 at Pipe Springs.

Fredonia 11:11 A.M. Continued to Rual, thence 98 to Page, Arizona. Between Page and Kaibeto (2:48 P.M.) 150 horned larks. Junction with 160 highway 1 roven. Continued on highway 60 to Keyenta and left from there at 4:16 P.M., roven, northern harrier hawk.

at 1 mi. S of Tes Neg Toh, roven.

6:24 P.M. Cortez in Colorado. In country of red colored rocks and first aspen.

7:03 P.M. Durango, Colo. mileage 6747 or 456 miles today.

Oct 19, 1992

Left Durango 11:07 A.M. after spending some time with Randy & family. Between Durango 160 highway and junction 151 observed: 3 black-billed magpies, Cooper hawk, striped skunk, magpie, red-tailed hawk, magpie, striped skunk, ^{black-billed} magpie, 3 groups of 3 black-billed roven. Junction 151, Leaves cottonwood 90% off, oak dull reddish-brown, 2 black-billed magpies.

Pagosa Spring 12:12 P.M. continued on 160 highway. striped skunk road kill, red-tailed hawk, aspen & cottonwood leaves gone.

12:49 P.M. 5 photos of valley below from road going up over San Juan mountains. 1 red-tailed hawk and 2 roven in overlook.

921019-1

921019-2

921019-3

921019-4

921019-5

1:02 P.M. Wolf Creek Pass. Grasses yellow, ^{on willow or aspen.} no leaves. Steller's jay. golden eagle.

1:05 Del Norte.

5 mi E La Vela Pass, black-billed magpie.

Arrived Walsenburg and left 4:39 P.M. on highway 10.

5:00 P.M. Los Animas Co. line. 3 antelope center Ortega Co. (at relay tower), red-tailed hawk.

junction 10-71 highway first agricultural area and crow, sparrow hawk, 2 sparrow hawks, 1 red-tailed hawk, flocks of 10-15 blackbirds.

5:55 La Junta, mourning dove, approx. 20 min before sundown. Cottonwoods 60% green, 40% yellow. Continued to La Mar for the night having travelled 382 miles today.

Oct 20, 1992

Left La Mar at 9:08 AM at mileage 7129. Birds along highway 50 to Kansas border: red-tailed hawk, 4 crows, 4 blackbirds, 3 western meadowlark, black-billed magpie, black-billed magpie, ducks on ponds, 2 red-tailed hawks, 2 black-billed magpies.

Kansas State Line at mileage 7168. Continuing on highway 50; 4 meadowlarks, rough-legged hawk, 4 blackbirds, western meadowlark, black-billed magpie, 2 meadowlarks, striped skunk, 3 W. meadowlarks, 2 American crows.

10:42 Syracuse, crow, 2 western meadowlarks, northern harrier hawk, red-tailed hawk, red-tailed hawk, crow, red-tailed hawk, horned lark, red-tailed hawk.

11:35 Garden City. 40 Brewers blackbirds. now highway 156 rough-legged hawk, meadowlark,

12:00 first rock post in a fence line.

12:40 roughlegged hawk, rough-legged hawk, red-tailed hawk, W. meadowlark, Lawrence Co. line, red-tailed hawk.

2:12 Larned, red-tailed hawk.

Ellsworth, raccoon road kill.

Osage Co., line, red-tailed hawk.

mile post 125 70 Interstate at 3:46 PM.

" " 231, striped skunk road kill.

" " 239, red-tailed hawk

" " 264 red-tailed hawk

" " 271 raven

" " 278, abeline, 2 striped skunk road kill.

Prairie lands with high, ungrazed green grasses of extensive areas. mile post 293 2 striped skunk road kills, red-tailed hawk, red-tailed hawk.

mile post 296 red-tailed hawk. more yellow color in cottonwoods. along Smoky Hill River, other places leaves are green.

mile post 303, red-tailed hawk

mile post 304, red-tailed hawk, more grass and more trees.

mile post 336, red-tailed hawk

mile post 344, meadowlark

Lawrence Kansas at mileage (odometer) 7600 at 7:43 P.M. or
471 miles today. Entire trip from Lopez Island 2569 miles.
Few days with James Robert then return to Lopez Island.

Oct 24, 1992

Left Kansas City International Airport 12:25 P.M., Salt Lake City
1:35 (arrived), depart S.L.C. 2:41 P.M., arrive SeaTac airport Seattle
3:35 P.M. General observations enroute: Pollution to Denver,
Eastern Kansas farmland \square , W Kansas \circ , Eastern Colorado
 \square . No aspen in color and leaves gone, trees grayish.
Route down Grand Canyon, then N along Tiimp. Jordan
River green. Columbia River \square , cottonwoods yellow.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.
Oct. 25, 1992

no mule deer in area of Bee House first night of our return.
6:28 A.M. ad. bald eagle past Bee House flying S. Within the
next hour 2 more flew S past Bee House and 1 adult fished in
Sound SE Bee House.

Oct 26, 1992

7:00 A.M. 7 river otter swim N past Bee House.
To Anacortes by ferry and return, no gulls on Painter Island,
one river otter at Lawson Rock at 12:20 P.M.

Oct 28, 1992

This A.M. 2 bald eagle sightings, 1 was hunting over water,
7:01 A.M. 2 bald eagles flew

Oct 29, 1992

7:01 A.M. 2 ad. bald eagles flew south past Bee House, 60 above
water and 100' out from shore.

Earless eastern gray squirrel at feeder with 3 other squirrels of
the same species.

Jon Edwards who lives approx 1/2 mi W Hummel Lake on Lopez
Island say he has never seen the eastern gray squirrel or Townsend
chipmunk on his property.

Mike Flynn reports no scoters in area this year.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Wa.
Nov. 2, 1992

at Humphrey Lagoon (7:24 P.M.) 2 bufflehead ducks and 1 great blue heron

Trip to Anacortes via ferry. Left Lopez Island, 3 mew gulls. 61 crab traps from N end Blakely to Thatcher Bay and 28 from Thatcher Bay to Willow Island on E side Lopez Sound (North), at least 2 glaucous-winged gulls flying along W shore of Blakely Island, Willow Island, 12 Bonaparte gulls. SW Blakely Island (W Thatcher Pass) 1 cormorant. No gulls on Painter Island in distance, at Lawson Rack area, 3 glaucous-winged gulls, 28 Bonaparte gulls, 2 mew gulls, 1 Herrmann gull, these all along a zone of floating bull kelp $2\frac{1}{10}$ mi. E of Lawson Rack. Across Rosario Straits groups of 12, 10, 1 common murre, 3 double-crested cormorants.

Nov. 3, 1992

at W side Causeway of Fishermans Bay: 52 bufflehead ducks in one group, 1 Harlequin duck, 8 American Crows, 2 glaucous-winged gulls. On E side of Causeway in S Fishermans Bay Lagoon: 18 greater scaup, 8 bufflehead, 3 northern pintails and 19 shoveller ducks.

9:27 A.M. Crows eating madrona berries in front of Bee House. These berries are first green, then a bright red.

9:30 A.M. 1 adult bald eagle on lower NW bench of Flower Island and one adult bald eagle 9 or so feet from nest on NE side of Frost Island. The one near the nest left and sailed at low angle to debris S of Leo Reef, picked it up and flew back to nest in tree 20 ft from the birds original position and consumed the catch.

8 harbor seal on Leo Reef which is approx 3' exposed. 25 double-crested cormorants also on reef. 1 seal in water 180' from reef.

Flock of 33 American robins flew N over Bee House at top of tree level.

Dec. 6, 1992

Townsend chipmunk active.

A ♀ mule deer (30' high at shoulders) and her fawn (22 inches high at shoulders) fed at Bee feeder. The fawn is the smallest in local herd.

8:00 A.M. No harbor seal on Leo Reef.

8:04 A.M. 4 river otter swim S past Bee House. They put out twice between here and Lichen Point.

Dec. 7, 1992

At 3:00 P.M. 260 bufflehead ducks along a 250 linear stretch of bay approx 100' out from shore.

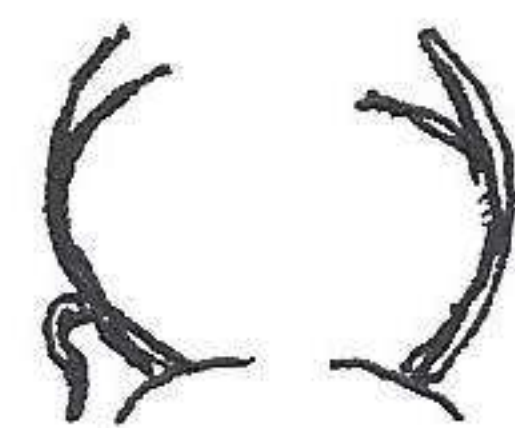
Photo 921207-1 and 921207-2 of flowerweed treatment of actinic keratosis. approx. date.

Madrona berries 95% off trees from outer part of tree, 20% from inner part.

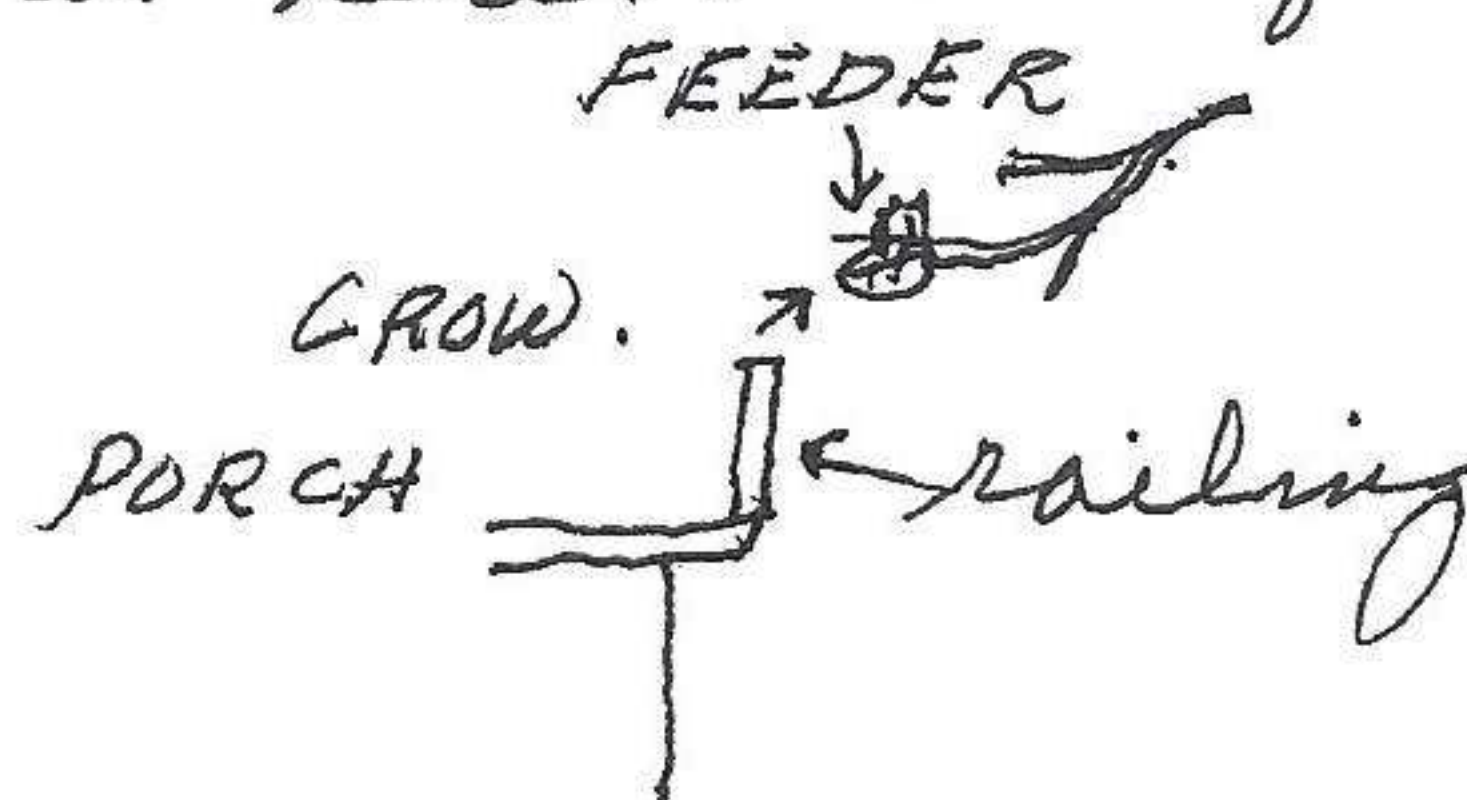
Nov 8, 1992

Leo Reef approx 1 foot above high tide. 18 harbor seal and 28 double-crested cormorant. Of the seal 2 were black, the rest on the light side. Waves from a boat displaced cormorant but not seals. One pelagic cormorant approx 100' out from shore from Bee House.

One of the largest male mule deer in area spent this morning pursuing a female deer. She was one of three adult females. The was a 5 minute standoff of ♂ + this one particular ♀. They were separated by 20 feet and made no movement for that period of time. The ♂ then lunged 8' and abruptly stopped and raised one front foot like a hunting dog. Then another 3 minute standoff. Ordinarily the ♂ mule deer aggressively pursues the females. A second lung and the ♀ moved away. The buck tolerated 2 other young males.

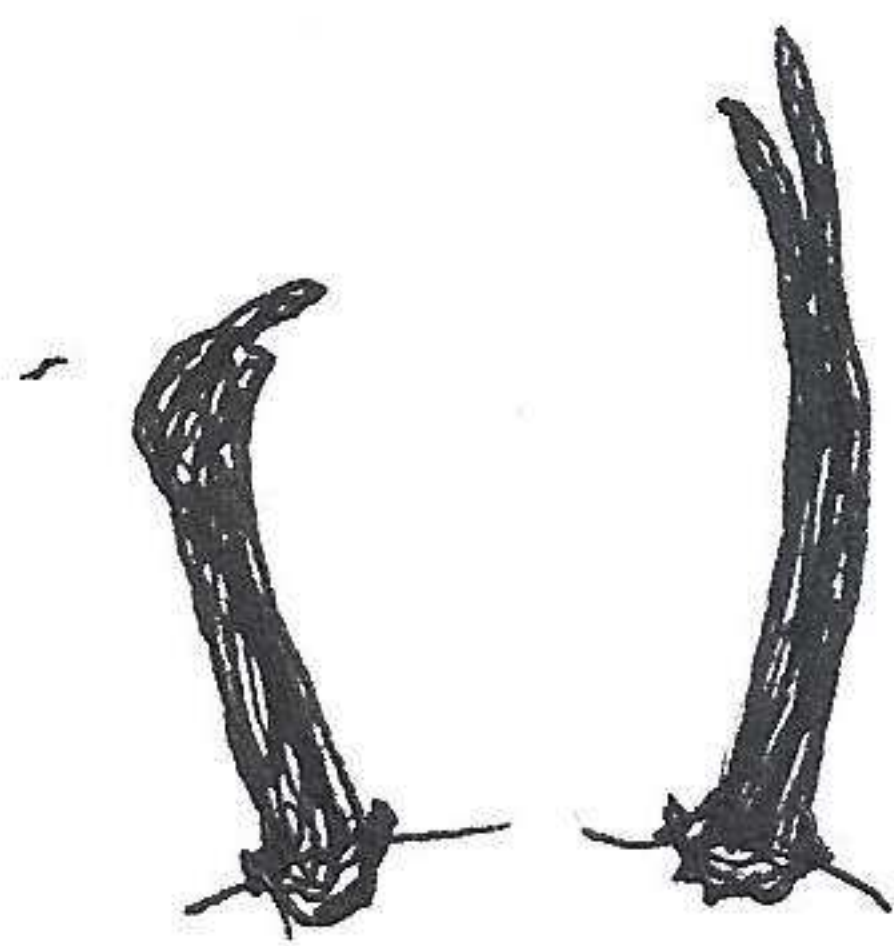


A group of 42 American crows fed at Bee House feeder. One flew up from railing of porch, grabbed a piece of suet extending beyond wire of suet feeder and then flew or navigated backwards to the porch railing.



This afternoon to Cedro-Walley. On return at 4:20 P.M. 3 mi W on 20 from Burlington observed approx 3,000 mew gulls in plowed field. There was an aggregation of approx 300 following the plow but rest in (8 acres) field and generally distributed.

Nov. 9, 1992



♂ mule deer 32" high at shoulders. Remained at feeder 5' beyond kitchen window and did not show signs of fear.

Nov. 14, 1992

7:20 A.M., 5 river otter swim 5 past Bee House, 6' from shore, feeding along way.

Nov. 15, 1992

Bird on W side of Runseway between S Fishermans Bay Logom + San

Juan Channel (within 200' from shore: 13 buffleheads, 11 western sandpipers, 3 glaucous-winged gulls.

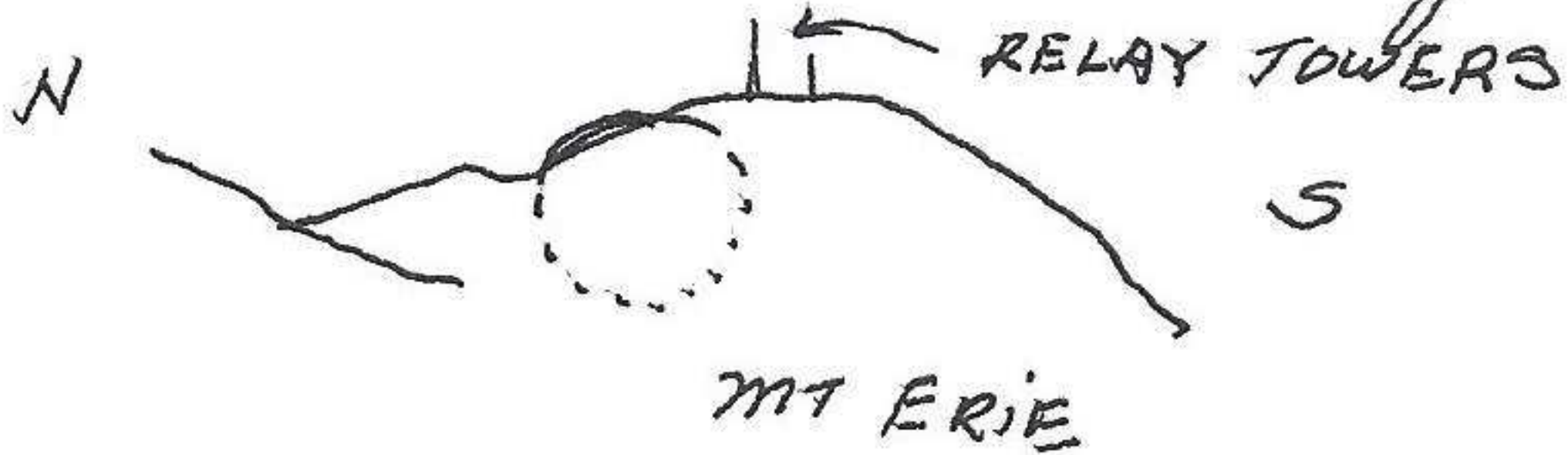
On E side Causeway observed 20 buffleheads, 9 greater scaups, 1 great blue heron, 4 northern pintails, 4 glaucous-winged gulls, at Bee House observed 1 brown creeper, 2 chestnut-backed chickadees and 2 golden-crowned kinglets.

Nov 18, 1992

3 river otter swam n out 20' from shore in front Bee House (A.M.)

Nov. 24, 1992

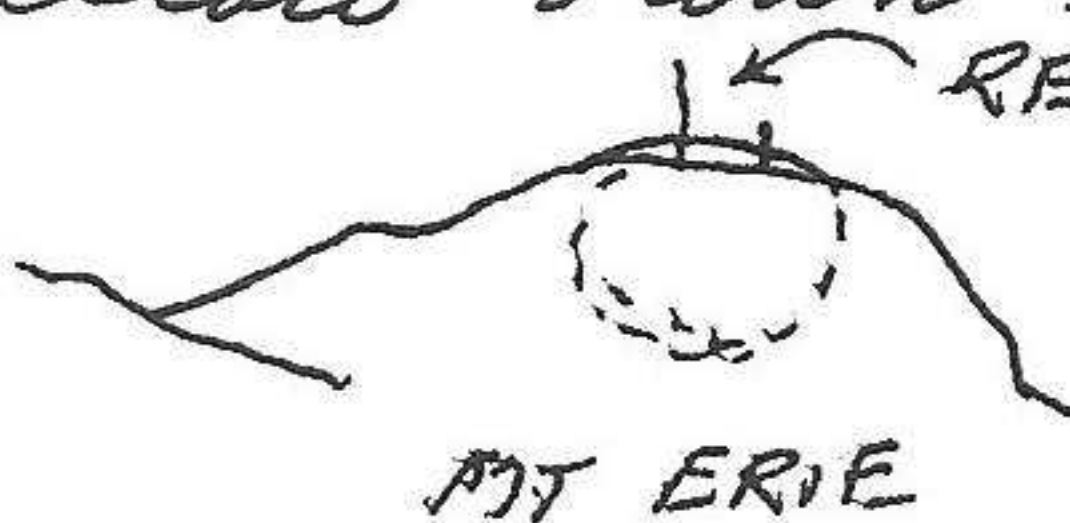
Sun rise over Blakely Island from Bee House at 7:41:28 A.M.



Approx 1000 cormorant to n of Bee House in n Lopez Sound all morning.

Nov. 25, 1992

7:00:00 A.M maximum yellow brown sky above Blakely Island. (fades rapidly)
Sunrise 7:44:05 A.M.



as sun travels S it

rises about 1 diameter of sun each day.

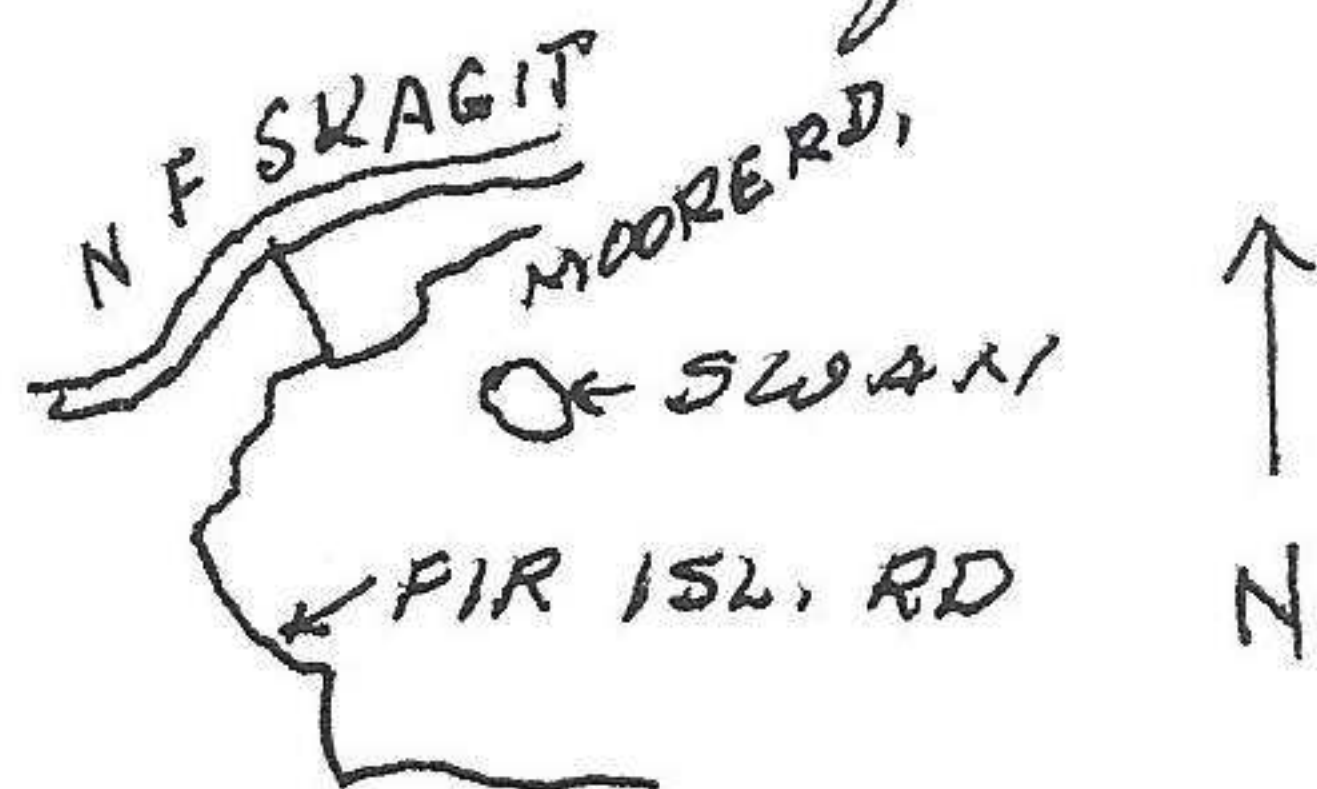
2 bald eagles in dead tree approx 20' from nest on NE Frost Island.

Bee House, Humphrey Head, Lopez Island, San Juan Co., Wa
Dec. 9, 1992.

3:00 P.M 1 river otter swam n out 15' from shore below Bee House, Mary's husband Steve Kaufman reports he has never seen a bald eagle chase a bird except magpies. also sub black and grizzly bears.

Trip to Chris' at Lost Lake in Snohomish Co., with Annette, Mary and Steve.

From bridge over n Skagit River observed 71 trumpeters swan in fields to SE. Also 18 trumpeters swan 1 mi W Conway on n side Fir Island Id.



at 2 mi. n Stanwood on 102nd AV. NW. observed 43 trumpeters
swan in field to w. toward Shogit Bay in Snohomish Co.

Dec 10 and 11, 1992

at Chris' at Lost Lake home in Snohomish Co. Stellers
jay at feeder.

Dec 12, 1992

Took Mary & Steve to SeaTac International airport. They go to
Wash. D.C. for Christmas.

On return to Lopez Island noted red-necked ^{and western grebe} grebe₁ at Mukilteo
Ferry terminal.

Dec 17, 1992

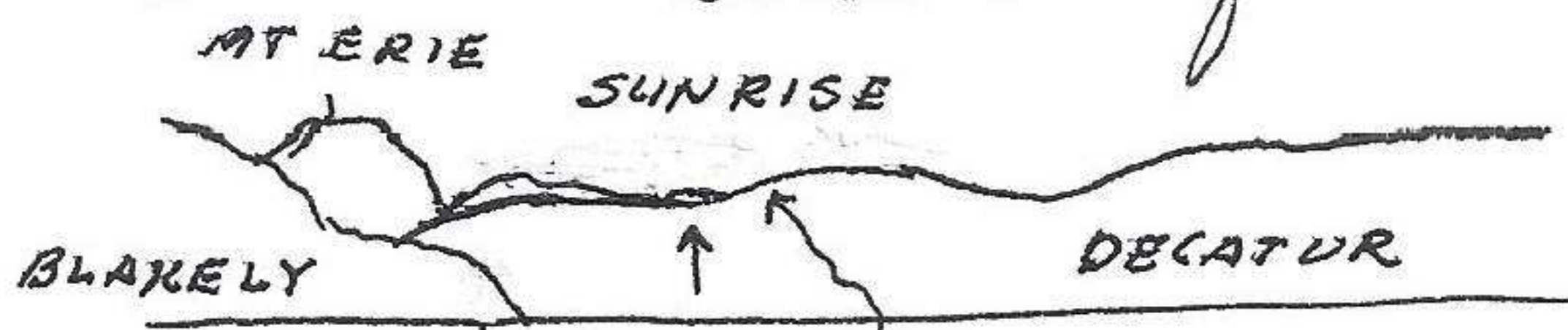
Snowed last night on Lopez Island, snow 1/2 way down
Blakely Island.

at high tide Leo Reef with 8 cormorant, on beacon, 1 glaucous-
winged gull, 2 surf scoters in water.

mule deer at Bee House down to 2-3 animals, sometimes 4-5.

Dec 18, 1992

Sun rise 8:04:33 over Decatur from Bee House. Left
ridge 8:04:19 A.M. Sun left ridge
8:08:19 AM and at a point farther up ridge to right



Dec 19, 1992

Snow (new) to water level on Blakely, none on Humphrey Head.
Wind blown (horizontal) streak half way up mt. ~~Blakely~~

Dec. 21, 1992

Shortest day of the year.

Dec 22, 1992

5 river otter swam n and fed along way out 15' from Bee House.

Dec. 27, 1992

2 bald eagles at nesting site NE Frost Island, one of which was
on nest and the other on limb 3' above.

Dec. 28, 1992

Low Bank on Swift Bay. Strong wind from NNE. 1320 mew gulls, 11 Bonaparte gulls, 12 glaucous-winged gulls, fed along edge of beach flying 1'-4' above waves (15' x 2 1/2' high) for 300' of shoreline. The water was dark brown with marine debris and bottom silt.

Also feeding on water in same area were 4 mallards, 2 godwits, 13 American widgeon and 16 northern shovellers. No birds on Swift Bay Lagoon.

In waves 12' across and 2 1/2' high 23 mew gulls formed a single file line to feed on surface material. I have also observed this same formation along currents of incoming or outgoing tides.

At the feeder at Bee House: 1 song sparrow, 1 rufous-sided towhee, 18 dark-eyed juncos (Oregon subspecies). At one time 65 American crows on feeder.

Snow to base of ^{Island} Blakely. One W side Blakely, the snow shows open spaces that are hidden in summer by uniform color of forest. These patches are randomly distributed. There are 26 snow patches on W side Blakely Island from Bald Bluff to N Bluff Bluff Peak. Snow depth on Lopez 5".

No harbor seal on Leo Reef during winter or extremely cold weather.

First varied thrush at feeder.

Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Washington
Dec. 28, 1992 (cont)

Catalogued 14 35 mm slides of Alaska and Siberia, taken in 1992 by Mary Bee Laufman. My catalogue numbers are in ink.

921228-1 Taken July, 1992 ANWR, Alaska, Kongakut River, Caribou migration estimated number 5000-3000 individuals.

921228-2 July 1992 Arctic National Wildlife Refuge, Alaska. Mickey maker's ¹⁸⁵

921228-3 Aug. 1992 Beliken? Umiak, Chukotka [Chukotskiy] Umiat Chukotka Penn.

921228-4 Aug, 1992. Telpeena Vasiley Reindeer herd, Chukotka Peninsula.

921228-5 Reindeer camp, Chukotka Penn.

921228-6 Kodiak bear in fireweed, O'Malley Cr., Karluk Lake, Aug 1991

921228-7 1992, young male learning to fish, McVie Creek, McNeil R. ~~San~~ Sanctuary

921228-8 1992, female brown bear and young, [Alaska]

921228-9 1992, [♂ & copulating]. McVie Creek [Alaska] McNeil R. Same.

921228-10 1992 young [brown bear] inquisitive bear, [Alaska] "

921228-11 1992 Wolfy [brown bear] 1000 lbs. [Alaska] " "

921228-12 1992 Large ♂ Wolfy [Alaska] " "

921228-13 1992 disagreement about fishing hole [brown bear, Alaska] " "

921228-14 1992 mating [brown bear] [Alaska]. " "