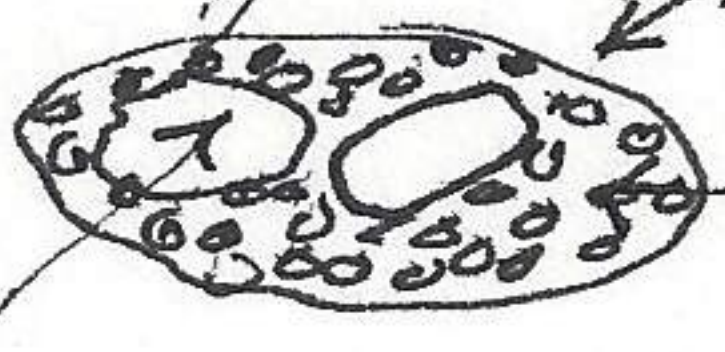


Bee Estate, Humphrey Head, Lopez Island, San Juan Co., Washington
march 2, 1986

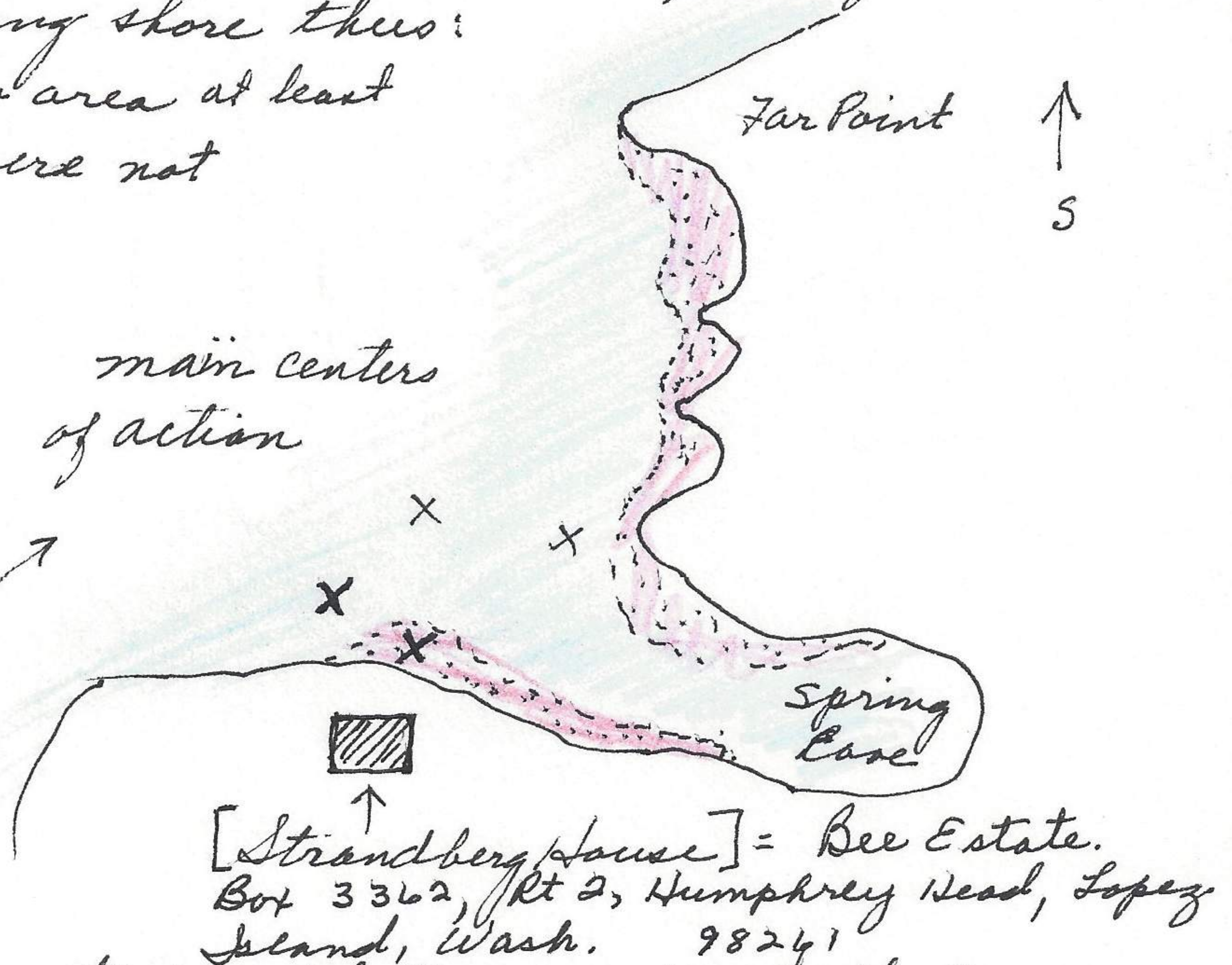
Fog lifted 10:00 A.M. Organized house for occupancy.

At 5:05 P.M. noted the breeding behavior of a minnow approx. 5-6 inches long, greenish back and reflective silver sides and venter. Body minnowlike, long, slender and forked tail. The main period of action was from 5:05 P.M. to 5:35 P.M. when there was continuous motion and activity. Areas of approx 10 x 25 feet were boiling with churning fish. Separation was approx 2-3 inches. The fish were turning over at surface, some completely out of water with silver sides reflecting light like a mirror. My first impression was surface action of a heavy rain downpour. As the fish worked a particular area, bubbles would form with white material or minute bubbles between.  my interpretation was that the bubble sperm of the males were organized around the bubbles which the minnows also produced. The currents were southerly but barely moving and as a result the mass finally collected against the east facing shore thus:

These minnows were in area at least the previous day but were not active at the surface.

new gulls attracted to area. 3 or 4 gulls had to pass over and capture fish before the fish would temporarily stop. Current

main centers of action



near
At sunrise this morning took 2 photos of calars to the E over Blakely Island:

Photo 860302-1

" 860302-2

Birds observed from our house (Strandberg home) on Humphrey Head; (A.M.)

6 bald eagles, first one flew by at 7:05 A.M. They pass by at approx. 15'-20' and are huge.