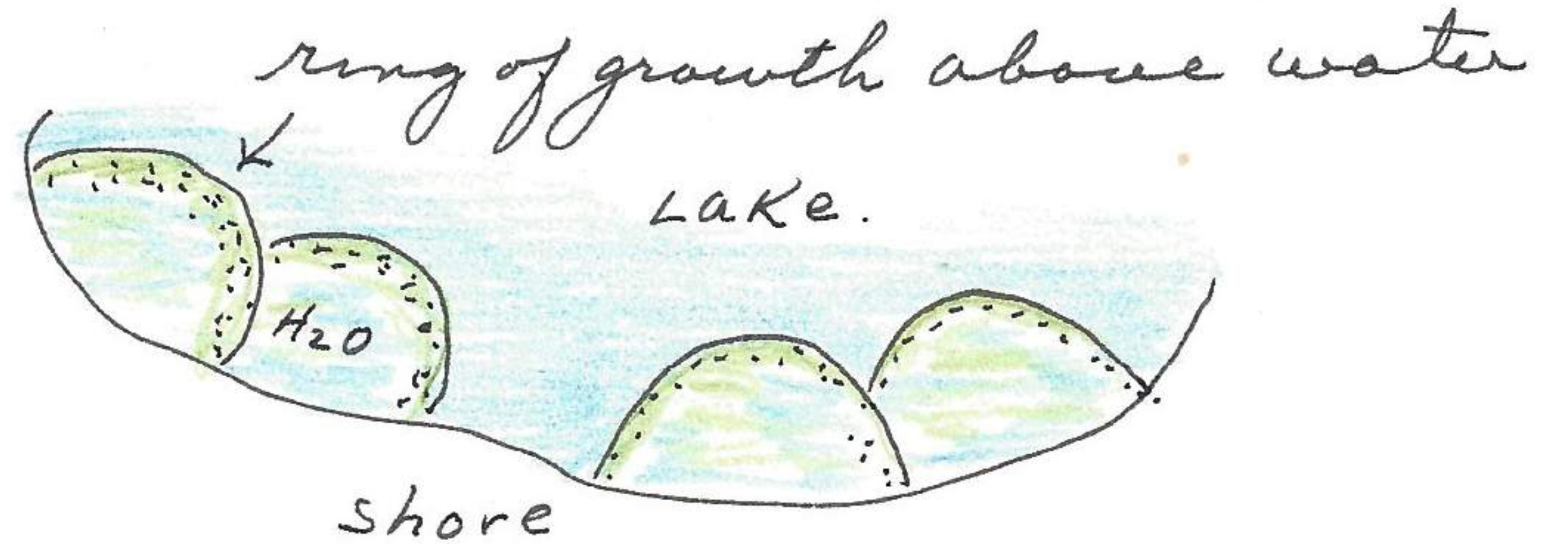
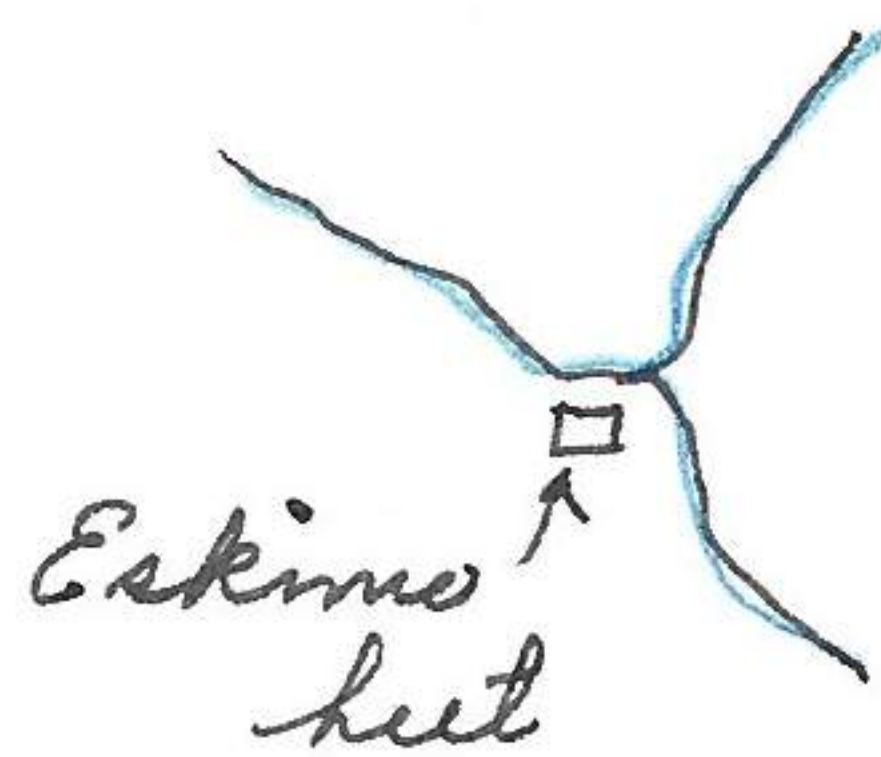


3:10 P.M. 12 *Larus hyperboreus* flew out over water at that point.
 3:26 P.M. first meandering river. 4:30 P.M. second meandering stream.
 3:40 P.M. 12 white-fronted geese together, 2 caribou. 3:44 P.M. Sabine's gull, loons and arctic tern at one lake. Lake vegetation pattern in some lakes as if growing from faecal pellets near shore thus: at 3:45 at junction of 2 main rivers:



Arrived 3:50 P.M. while coming from Point Barrow flew about 30' above ground

was surprised to find so few large birds on the tundra and almost total lack of caribou.

Koolak, 69°56'00", 160°14'51", 178ft alt., Alaska

July 20, 1961

Set 214 traps around Koolak to west and north from 8:00 P.M. to 11:00 P.M. Set mainly in cottongrass with few in wet grass-willow community. Merry Christmas.

July 21, 1961

Inspected trapline this A.M. and found the following: trap 28 *Calcarus lapponicus* (released); 32 sprung; 57 *Calcarus lapponicus* (released); 92 sprung; 106 *Lemmus trimucronatus* 510721-22; 128 sprung; 174 *Lemmus trimucronatus* 510721-21. The first Lemmus taken in wet 1 foot high grass and not associated with *Eriophorum*. The second Lemmus in damp area among cottongrass. From 1:00 P.M. to 7: P.M. made cruise ^(walking) over tundra to south, thence west up creek, thence north to Koolak. The tundra quite barren of birds, sometimes not a single bird in 4 blocks. In contrast, heavy concentration of small birds in creek to south of camp including the Lincoln sparrow(?), savanna sparrow, common redpoll and Alaskan longspur. In this creek the following kinds and percentages of birds were noted. *Acanthis* (sp?) 200; *Calcarus lapponicus* 100; *Passerculus sandwichensis* 80; melo-

