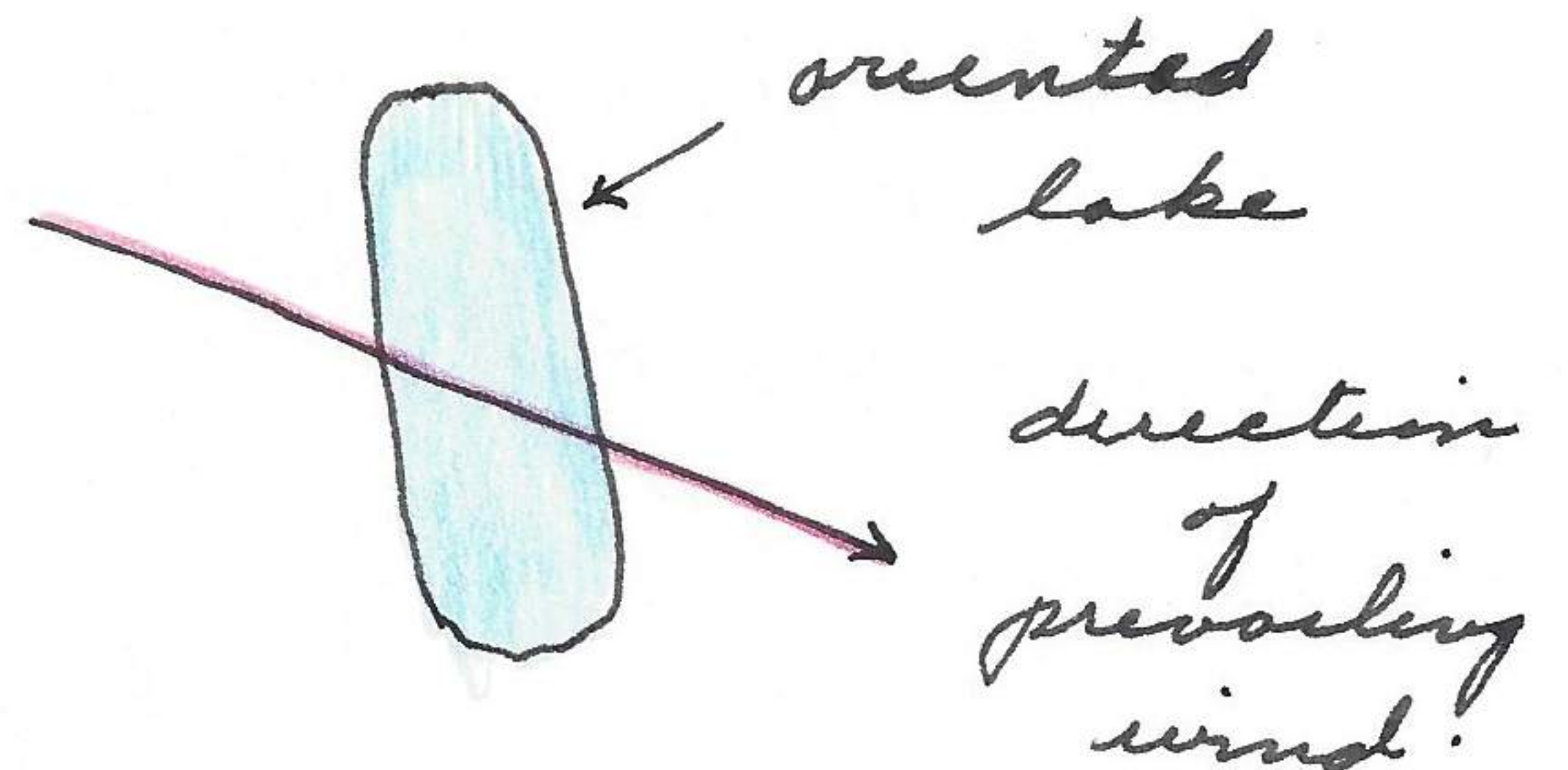


swim and finally got confused and put bill under water and drowned. Lake on way to Umiat oriented E-W.

Umiat, Alaska

Aug. 23, 1952

Arrived Umiat 11:00 A.M. and departed Point Barrow 1:30 P.M. Enroute photographed in movie and still several general lake shots nos. 520823-1, 520823-2, 520823-3, 520823-4. Sand pits across oriented lakes thus. Long trailing dunes indicate direction of wind and the sand dunes orient themselves much in the same direction as the snow lines observed earlier in the season. At Point Barrow photographed myself 520823-10 and parka used in the field.



- Dr. Frank Darling discussed problems of the Arctic with me.
1. Russians hunted shorelines of Alaska but did not penetrate inland.
  2. In 1900 and after mining and hunting extensively the whiteman penetrated Alaska inland.
  3. The present problem is to appraise the biological problems before degradation of animals and plants takes place.
  4. Decline of caribou in southern Alaska thought to be caused by shooting but main cause is reduction of range of caribou by fire.
  5. Moose increasing in last 50 years because of change of vegetation of climate lichens to birch, willow and other shrubs in normal degree of succession. There is a biomass change from caribou to moose because of a change in this botanical complex.
  6. Caribou live on 80% lichens and 20% browse in winter and reverse proportion in summer.
  7. Caribou live on Cladonia and Centralia which grows slowly which in turn accounts for extensive migration of caribou.
  8. Caribou wandering is nomadic and not true migration. They move as the spirit wills which does not permit overgrazing.
  9. Reindeer introduced 1892. In 1932 there were 650,000 between mouth Colville River and Alaskan Peninsula.