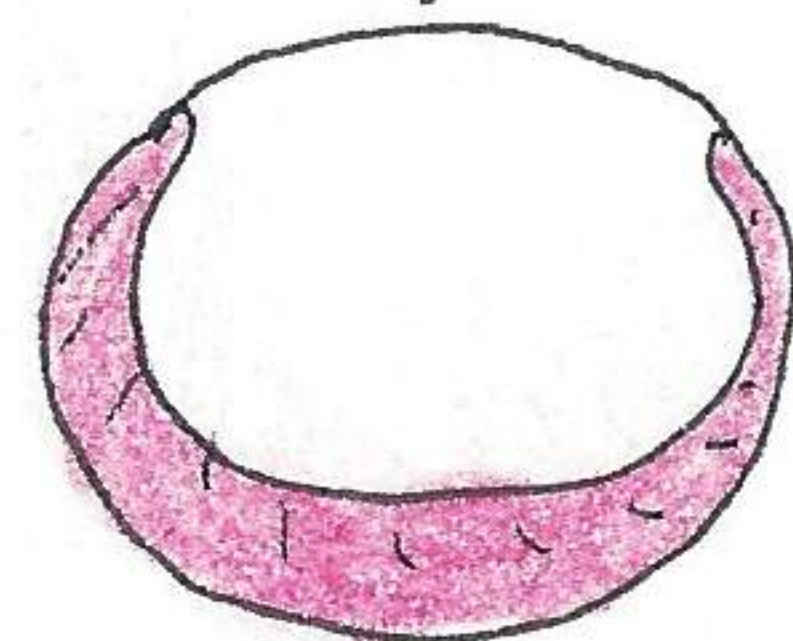


kill by pressure from the beak. The one noted flew 50 meters with the lemming in its mouth and after alighting, swallowed it whole. Checked a longspur nest of 3 eggs of yesterday which now had 4 eggs. Examined several nests of lemming in solid ice and without dry grass. The usual chamber has about 30 mm of grass on bottom and grades to no grass near upper reaches of the excavated hole. Most of the main trails are found at what is now the low water contact.

at 6:25 P.M. photographed the Arctic Ocean.



520619-1 Snow foreground, ocean ice and snow beyond.

520619-2 Ice and snow with open blue water beyond.

520619-3 Edward Campbell in distance with near shore ice.

520619-4 Angle ice and background of ice masses

520619-5 Ice ridge and ocean ice beyond. These ridges are reacting to the pressure of the wind to the north. On the beach proper are 5 successive overthrusts of ice

520619-6 nest of Alaskan longspur.

at A.R.L. examined a lemming 520617-14 with 8 teeth scars on its back.

Arctic Research Laboratory, Point Barrow, Alaska

June 20, 1952

This afternoon at 2:00 P.M. accompanied by James Knot, U.S.G. Survey to test drill hole no 4 south of Barrow Village at  $156^{\circ}45'25''$ ,  $71^{\circ}16'20''$ , approx 30 feet. The Arctic Ocean has about 15% open blue surface water (on top of main ice). From Barrow Village to test hole 4 recorded the following: 2 snow buntings, one Pomarine jaeger, ♂ & ♀ red-phalarope, 1 lemming, 7 lemming (in good area of about 100 meter distance), 1 pomarine jaeger, 1 Pomarine jaeger, 1 Alaskan Longspur, 1 Alaskan longspur, 2 snow bunting, 5 Pomarine jaegers for to east. arrived 2:45 P.M. The last creek we crossed had overflowed its banks and onto the snow and wherever this occurred it left piles of grass clippings made by lemming at its headwaters. One mass of grass occupied an area of about  $4 \times 3$  meters and  $1/3$  meter thick. The effect of lemming activity is expressed in many ways this spring. At test hole 4 collected by hand and by digging burrows 12 lemming in an area of about  $1/4$  acres. Ed caught 9 in a similar area. Caught a ♀ and ♂ chasing each other as if part of approach for copulation. These lemming were taken from polygon areas of well-drained slopes and