

Museum of Natural History, Univ. of Kansas, Lawrence, Douglas Co., Kansas.

May 11, 1951

The following information sent to Dr. Ira L. Wiggins, Arctic Research Laboratory, Box 1310, Fairbanks, Alaska. (Point Barrow).

"Thank you for your letter of May 4 which was indeed informative and which clarified many problems at hand.

The four stations outside the Reserve Area were included in the original proposal on the suggestion of one of the ONR officials because visiting these four places would be reconnaissance useful for a second season of field work. It is not clear to me as to how these stations were to be reached and you may feel it unnecessary for the R. V. personnel to visit all four places. We would like to visit at least one and no. 5 would be our first choice.

As to the itinerary in my letter of April 21, I can see now how the figures on mileage supplied to you were misinterpreted. Those figures are total round trip distances and do not have to be doubled as you supposed for purposes of Changing Camps. The figures, therefore, were correct, as stated, with a total of approximately 5,131 nautical miles (5,908 statute miles). On the basis of the specifications which we have on the Norseman monoplane (120 gal. fuel capacity, one 145 gal. or two 122 gal. auxiliary fuel tanks under the floor of the cabin, 442 mile range, 55 max. speed, cruising with 66% power 134 miles per hour) and on the basis of a conservative 120 miles per hour cruising speed, the total mileage for moving the camp from one station to the next (including visits to Point Barrow) would be made in approximately 50 flying hours. On the basis of \$40.00 per hour the original estimate of \$2200.00 would be ample and leave a margin of \$200 (\$100.00 of it for weasel) for off-course flying, miscalculations of wind velocity etc. By using auxiliary gas tanks we supposed that enough gasoline could be carried for the round trip to the distant stations thus eliminating the need of fuel caches. The longest round trip was 497 statute miles and the next longest was 472 statute miles.

Your proposal to do pre-seasonal work out at Umiat is indeed inviting and while Rausch has done consider-