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various loops which you have outlined.

Inasmuch as the bush planes do not operate on a nautical mile basis, but on a rate of so much per hour, and since the speed of these planes is figured in land miles instead of nautical miles, the total time required to make the amount of flights you have indicated, would be between 150 and 200 hours. Obviously this is impossible. Such a program would require the caching of gasoline at each one of the more distant stations prior to the commencement of the actual summer's work, for the Norseman does not carry sufficient gas to make the round trip from Point Barrow to any one of your more distant stations with a full pay load. The caching of this of course would have to be paid for at the same rate that the later flights cost, and the ambitious program you have outlined would take more time and money than is available to carry on the bush plane flying program for the entire group of scientists to be stationed at Point Barrow during the summer of 1951.

As you undoubtedly know, Dr. Setzer of the National Museum will also be working in the field during this summer, and it had been a part of my general planning for the two of you to more or less divide the area between you, so that neither would be required to do as much moving from one spot to another as is indicated in your proposed schedule. It may be possible to get each of you to the various parts of the Reserve without exactly duplicating the camps from which you would operate, and do so with less expensive flying programs than you have outlined.

As indicated in my April 21st letter, the chances are better than three to one that you will be unable to do bush flying as early as June 10th. The period between June 1st and July 1st is normally considered the breakup time, when almost no bush flying is feasible. It is possible that if you arrive by June 10th that arrangements can be made for you to spend a couple of weeks in the vicinity of Umiat, at approximately 69 deg. 28 min. N and 152 deg. W. There is a Contractors' camp at this point and if you desire to do so, it is possible that you might work up or down the Colville River a distance of from 50 to 100 miles by using a skiff and an outboard motor. In that way, you could determine the length of your stay at any one point at your own convenience. It is probable that a team of paleontologists will need to be operating in the Umiat area during the same period, and your team and theirs will undoubtedly have to arrange for cooperative alternating use of the skiff and outboard motor, if you wish to work more than a few miles from the Umiat camp.