Dr. Donald B. Muldrew Communications Research Center P. O. Box 11490, Station H Shirley Bay, Ottawa, Ontario Canada K2H 6V2

Dear Dr. Muldrew:

Thank you for your note of 15/10/85 and enclosures. I've not yet located the voluminous references you give. Apparently the map of latitude versus longitude are contours giving f_0F_2 . While in Hawaii during 1953, I examined a lot of f_0F_2 data from north american stations. On basis of this ground level data, I drew a map of minimum f_0F_2 . It was a band starting at Prince Rupert, going ESE to Winnipeg, continuing toward Lake Superior, east toward Toronto, continuing toward Ottawa, and ENE to Laborador north of St.Johns. At the time, I didn't believe it, and wrote the result off as some instrumental effect. This result was never published. However, it seems true. The Ashton site is close to the band as shown by your enclosed map.

Before leaving Ottawa, I discussed using Ashton site with Norman Broten, and wrote him in some detail on 26/11/85. A copy of my letter is enclosed. So far, I've not heard from him. Perhaps he has his hands full remodelling the Algonquin dish. Since CRC seems to be a separate organization from NRC, probably I should deal with CRC directly. I've forgotten name of man in charge of Ashton site. It was rather like Rosevear? Our brief conversation suggested something could be worked up. Whatever is arranged should be formal, open and clear. At Hobart labs of CSIRO, I have title of Honorary Research Fellow. This gives me access to and use of shop and laboratory facilities, typing and clerical work of administrative staff, and assistance by library staff. I do not receive any pay. My purchasing is thru front office clerical staff. However, I pay my own bills promptly as they come in. In fact my credit rating is better than CSIRO. Their bills are paid thru Canberra after frequent long delays! CSIRO receives messages and merchandise for me. I'd like to arrange something similar with CRC.

Returning to Ashton site, I noted the antennas are in groups arranged at 90°. This will allow polarization measurements to be made. To broad band the antennas will require some special couplers. These will need large coils to be wound and some sheet metal boxes constructed. I presume that coil winding and sheet metal shops are available in Ottawa. Insulators, wire, and ground rods should be common articles of commerce. When at Penticton, I didn't know about the Ashton site. However, I discussed 2 mc radio astronomy with the fellows. I'm sure a similar installation can be made at Penticton. Then we can try some low frequency interferometry.

The project should not require any direct financial outlay by CRC. However there may be some indirect expenses relating to use of telephone, electricity, heat, postage, etc. On a personal basis, I propose to rent a furnished flat and probably a car, both on a monthly basis. I carry an account at National Trust in Toronto. They probably have an office in Ottawa. I propose to arrive in Ottawa mid May and leave mid September. Please take these and any other relevant matters up with powers that be.

I'd like to get on with this project so that I can organize my affairs here. Looking forward to your considered reply, I am

Sincerely yours,

Grote Reber General Delivery

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