

GR/PS

Mr. Arthur E. Covington,
National Research Council,
Ottawa 2,
ONTARIO,
Canada.

25th June, 1965.

Dear Art,

The Alouette data arrived last March. It was plots of $f \times F_2$ versus time and position. I computed and plotted $f \times F_2$ on same sheets. This gives a good idea of extent of hole in latitude. Actually the Alouette data contributed little new information. However, it did confirm my interpretations of when hole is open or closed. I will write my findings to Nelms in due time. Now we have a much better check on my records. At intervals a small ionsonde is attached to the antenna. Presence or absence of echoes tells exactly when hole is closed or open in the direction I'm looking. The correlation is perfect. The E layer is very smooth compared to F layer.

Enclosed are three photos of my installation at Bothwell in reciprocity for the fine pictures you sent to me.

Best wishes,

Grote Reber

encl.