

Aerogramme

1-29-56

Notes

Dear Bill:

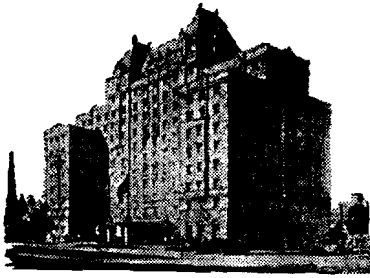
A few days ago I approved and returned the proofs for our article in J.G.R. It will appear on page 1 of March issue which is start of a new volume. Apparently, Tuse likes our stuff. Maybe we should cook him up some more!

Just before I left we talked about having HEC install an isolation transformer in the spur out to our place at the saw mill. If you can get this done without buying the transformer I will be pleased to pay the bill for labor and transformer rental.

The Research Corp. has agreed to underwrite an installation at either Seven Mile Beach or over near Fort Davies. I would favor the latter. However before either of these is undertaken I believe that more and better <sup>to 520KC</sup> results should be had at Cambridge.

Last spring I entered into negotiations with people in Peru for a lot of Huancayo ionosphere data. It was to cost some unknown sum around \$50 and to be delivered sometime in the future. They would advise cost and deliver material when it had been assembled. I never heard anything more; neither can I remember if I gave IPS or U. of T. address. Please enquire and if any word has arrived from Peru; drop them a line, saying I am returning in a few weeks.

During the past week I have searched through several thousand feet of Canadian ionosphere film over a number of years from a variety of stations. Not



THE **Lord Elgin**  
HOTEL  
OTTAWA CANADA

one single frame shows a gyro echo even faintly. While they use delta antennas the transmitters are of high power (10-15 kW) and receivers limit at 10  $\mu$ v. These systems sensitivity is good. The second and third multiples of F are frequently visible down to 0.5 mc on their LG17 jobs. Spread F is mostly a fuzzy mass. Not one frame in a hundred shows a sharp inside edge. F region criticals are not low in the far north. All through the long polar night they hang around 4 to 6 mc even at solar activity minimum. The strong Eps of Hobart is very rare; but a lot of night-time E with a cusp appears. Z echoes are very common. Many good examples are secured of Z echoes in E, F<sub>1</sub> + F<sub>2</sub> layers clearly. Forbidden F is quite rare compared to Hobart and often occurs at night. All these things indicate that the northern hemisphere is rather different from the southern hemisphere. Experiments on the gyro echo are impossible up here.

I am scheduled to arrive Sydney on Feb 27th at 700 am via Qantas # 514. It is my intention to call Br. Baker at his office and there pick up a TAA or ANA flight getting into Hobart that afternoon. I think I'll try the Heathorn Hotel for a month as it is close to both the University and down town. Please call them and get a reservation for one in my name starting the night of the 27th.

C. V. next month

Grote Piber