

2nd July 1965

Dear Hap:

Many thanks for your fine letter of 8th June which arrived on 15. The 1964 RC annual report sent by Robert Ritchings arrived today.

You and Bill Hinkley will be welcome guests anytime and I look forward to seeing both of you. The maritime climate causes winter to be very mild here compared by north american standards. July and August are the chilly months. Night temperatures rarely drop to freezing. Day temperatures rarely exceed 50°F. Snow is practically unknown in Hobart. Unfortunately the people don't know how to take care of themselves and can be very uncomfortable. It seems to be an old english custom. I would suggest October or November for a pleasant spring trip to this somewhat remote place. Bring your wives along for an outing to see how the other half lives.

Observations picked up during June and much fine data was secured. Apparently May was just a bad month. An unexpected phenomenon has turned up. At sunrise the eastern edge of the hole in ionosphere rapidly moves west and cuts off radio vision to the cosmos. Several mornings the edge was very sharp, rather similar to edge of moon. By chance a radio source was appropriately located directly in the beam. An occultation with diffraction pattern was produced just like when edge of moon passes over a star. Measurement of pattern disclosed radio source must be only a few minutes of arc in size. This confirmed my suspicion that sky is covered with a lot of fine detail at hectometer waves. Also it demonstrates the terrestrial radio atmosphere is sufficiently transparent and stable to see this fine detail from the ground quite frequently. I then tried out scheme on small Magellanic cloud. A different kind of pattern was produced. Apparently this is due to cloud being a dark spot on bright

Dear Hag:

Many thanks for your fine letter of 28th June which arrived on 15. The 1964 RC annual report sent by Robert Ritchings arrived today.

In a few weeks I will try scheme on strong background. I look forward to your source in Fornax when it gets into proper position.

The catalog on LeTourneau Tree Crusher arrived on 29th. This is quite a machine. Apparently contractors are on hand who specialize in this type of work. Perhaps beef cattle are a profitable complimentary activity to large scale radio astronomy. The landowner here does very well on cattle and sheep. We don't seem to have any conflicting activities.

My last letter requested information about two types of delay line. This matter should be dropped. I have invented a much better scheme which requires no delay lines. The Field Effect Transistors are still much in the picture. Any information will be very useful. Perhaps Jennie could send the pertinent facts on these by air with and catalogs etc. by sea.

My archeology investigations are scheduled to be published in November issue of Mankind. The two dates from Geochron arrived here a couple of weeks ago. I will have more to say on this when results come in from New Zealand.

We have a fine set of linemans belt and spurs. Bill Hinkley can demonstrate how he climbed poles when we was with Con. Ed. Ours are hard as oak and texture of a maple floor.

Best regards,

Grote Reber