

6th August 1964

Greetings Jennie:

By now you probably have returned from a pleasant vacation and are once more holding the fort. My note to Mrs. Gormley of the 17th July may be cancelled. I found a suitable condenser among the variety of things stored at Kempton.

Data taking continues to be good. I've worked up most of my observations to see how things are coming out. The results, so far look interesting and important.

The Cosmic Ray calculations I mentioned in my letter of 5th June have turned out unexpectedly good. Six years are now completed. These show a diurnal component in some way associated with the sun. In general this confirms the results of others. However all six years also show a sidereal component pointed at RA 0700 and Declination -43° . While I was at the University of Chicago they had a large effort to find a sidereal component of cosmic rays but were unsuccessful. It seems the reason is that the sidereal component comes in from the southern hemisphere along our spiral arm; not from the galactic nucleus as suggested. The seventh year of cosmic ray data will be completed on 30th of September. I will then organize the entire lot and send it to the Journal of the Franklin Institute as they carry articles about cosmic rays.

Yesterday the Forestry Department man visited my installation at Bothwell and agreed to plant three kinds of trees around my building. We will enlarge the fence to keep out animals.

The copy of Castanea arrived on 17/7/64. Thanks.

Best regards,

Grote Reber

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