

12th June 1958  
General Delivery  
Wailuku, Maui, Hawaii

Mr. Conrad P. Mook, Editor  
American Geophysical Union  
1515 Massachusetts Ave. N.W.  
Washington 5, D.C.

Dear Mr. Mook:

Thank you for your letter of 27th May and enclosed transcript which found its way to me here. It seems quite reasonable that hurricanes would have a significant effect in the D and E regions of the ionosphere because of the great changes in pressure. The storms in Tasmania are not circular. Many are rapid movements of sharp and intense cold fronts with winds of moderate velocity. There might be an ionospheric effect on a very large scale such as 1000 miles, or more.

The observations referred to in my article were at 520 KC. The bandwidth of the antenna system including tuner boxes etc. was about 30 KC. These intense atmospheric disturbances vary with the seasons and the weather. Many more were present during the cold wet winter of 56 compared to the dry moderate winter of 57.

I do not have any dates, etc. with me here as all that information is stored in Tasmania. A couple of my friends have undertaken to tabulate and describe such of the intense atmospheric disturbances as they encounter. I expect to return to Tasmania about 1960. By then a considerable amount of data should have accumulated. It is my intension to try correlating it with a number of things. The ionosphere could be one of them.

I thank you for your interest and will be on the eastern seaboard next autumn. Perhaps we can get together then.

Very truly yours,

*Grote Reber*

Grote Reber