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DEPARTMENT OF GEODESY & GEOPHYSICS

MADINGLEY RISE

MADINGLEY ROAD

CAMBRIDGE

22nd December, 1958.

Dear Ronald,

Very many thanks for your letter. I am glad to see that Cornish's conclusions survive your smoothing. I must confess I feel a bit dubious whether the oscillations are really going to be continued in the future, since they seem to have been getting a bit ragged during the last 20 years. It would be very nice if it really is alright.

I am very glad to have your smoothing formula. I have usually smoothed experimental data by subtracting one-twelfth of the fourth difference, partly because this is easy to do, and partly because it was recommended by Jeffreys & Comrie some years ago, though I don't remember their reasons. I worked out the spectral transmission of this process and include the results and a comparison with your formula. As one would expect, it does not get rid of the high frequencies as well as the ten-term formula. It seems to have surprisingly little effect on the longer wave lengths.

Yours ever,

*Teddy*

E. C. BULLARD.

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