



DEPARTMENT OF NATIONAL DEFENCE • DEFENCE RESEARCH BOARD

DEFENCE RESEARCH TELECOMMUNICATIONS ESTABLISHMENT

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OTTAWA/ONTARIO

19 December, 1963.

*arrived 24/1/64*

Dr. Grote Reber,  
Tasmanian Regional Laboratory,  
"Stowell", Stowell Avenue,  
HOBART, Tasmania,  
Australia.

Dear Sir:

Thank you for your letter of 11 December, 1963. There are, indeed, troughs over Tasmania; they occur, as you will have guessed from the contours sent to you, at the magnetic conjugate to those seen in the northern hemisphere. They occur in the evening and at night and, as they occur at the boundary of the outer radiation zone, are effected by magnetic disturbance. Other sets of troughs occur at higher latitudes, within the auroral zone.

Our study of the southern hemisphere troughs is not yet complete, therefore an indication of the times at which you have observations would be most helpful. Since the satellite requires 3 months to sample all local times, due to its polar orbit, there will be more chance of obtaining coincidence if well spaced dates are indicated. Also, since Woomera has not been a high priority station for Alouette, a fairly extensive list may be required in order to get coincidence.

Yours sincerely,

G.L. Nelms  
for Chief Superintendent