

3/4/89

Paul Campbell
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Dear Paul:

Recently a copy of your red booklet for July 1988 arrived. It provided me with an opportunity to do some new and different analysis of f_oF_2 . I compared readings at exactly same GMT for Resolute, Churchill, and Ottawa for each hour. A total of 259 separate observations were made covering all 24 hours. From 6 am to 10 pm CST the values of f_oF_2 decrease as latitude increases. However, from 10 pm to 6 am the values of f_oF_2 increase as latitude increases. This shows a substantial valley or trough exists near $45^\circ N$ latitude. Such is in agreement with and confirms Alouette satellite observations. On my last trip I spent considerable time at CRC searching and plotting Alouette data. The above analysis explains why only nite time transits showed the trough. It is simply not there during day.

July 88 is summer pretty well up on solar activity cycle. I'd like to try similar analysis for winters near bottom of cycle. Please search thru your archives and send to me red booklets of f_oF_2 or equivalent for Dec. 84, Jan 85, Dec 85, Jan 86, or whatever you can locate similar.

After I've developed this business further, I'll send to you my detailed analysis. Let us keep in touch. I am,

Sincerely yours,

Grote Reber

Grote Reber
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Bothwell, Tasmania
Australia 7030

Red Booklets for April, May, June 1988

Posted 15/11/88, 89¢, Rec'd 6/4/89