

DECEMBER 29, 1958

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DEAR DR. PEOPLES:

THANK YOU FOR YOUR LETTER OF THE 22ND. TABLE III OF DEFINITIONS FOR FIGURE 3 IS THE BASIS OF A LOT OF ALGEBRA AND TRIGONOMETRY WHICH I HAVE NOT GIVEN. THE END POINTS ARE THE SHORT AND CONVENIENT RELATIONS IN 4TH FROM LAST LINE ON PAGE 4 AND 6TH FROM LAST LINE ON PAGE 5 PART I. THESE SYMBOLS ALSO APPEAR IN FIGURE 4 A, B, C, D AND FIGURE 5. THE MATTER IS OF NO GREAT IMPORTANCE. IF TABLE III HAS GONE TO THE PRINTERS, LET HIM INCLUDE IT. IF HE DOESN'T HAVE IT, LET IT BE OMITTED. THE PUBLICATION OF PARTS I & II SIMULTANEOUSLY IN THE MARCH ISSUE OF JGR IS SATISFACTORY TO ME. I WROTE IT IN TWO PARTS BECAUSE I THOUGHT THE WHOLE THING WOULD BE SO MUCH AS TO MAKE ONE ISSUE UNBALANCED.

I WOULD LIKE TO PURCHASE 300 REPRINTS OF EACH PART. THE COST OF THESE AND YOUR PAGE CHARGES WILL BE PAID BY RESEARCH CORPORATION UPON RECEIPT OF A BILL BY ME.

DURING THE YEARS THESE RADIO ASTRONOMY OBSERVATIONS WERE BEING MADE, I COLLECTED A VARIETY OF OTHER DATA. RECENTLY I HAVE COMPLETED AN ANALYSIS OF ALL THE MICROBAROGRAPH READINGS AND HAVE SOME VERY GOOD RESULTS. THESE DEMONSTRATE PRESSURE OSCILLATIONS IN THE EARTH'S ATMOSPHERE WITH PERIODS OF 24, 12 AND 8 HOURS. ALL THREE OSCILLATIONS ARE INDEPENDENT WITH THEIR OWN CHARACTERISTIC CHANGE OF AMPLITUDE AND PHASE DURING A YEAR. IF YOU THINK THIS KIND OF THING IS SUITABLE FOR JGR, I CAN WRITE UP A COUPLE OF HUNDRED WORDS WITH A FEW FIGURES AND SUBMIT THE MANUSCRIPT TO YOU.

VERY TRULY YOURS,

GROTE REBER

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