8TH SEPTEMBER 1959 P.O. Box 2 GREEN BANK, WEST VIRGINIA

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DEAR HAP:

 $T_{oldsymbol{HANKS}}$ for your letter of the $oldsymbol{31}$ st $oldsymbol{A}$ ugust. My present plans are to leave here the evening of the 20th AND SPEND ONE DAY IN PRINCETON. I'LL ARRIVE IN N.Y.C. SOMETIME BEFORE NOON ON THE 22nd. I HAVE A VARIETY OF SMALL THINGS TO DO INCLUDING HAVE ANOTHER LOOK THRU THE RADIO JUNK SHOPS AT THE SOUTH END OF THE ISLAND. WE CAN GET TOGETHER AT YOUR CONVENIENCE AS I INTEND TO STAY THE REST OF THE WEEK.

of Toomania, Harrain + Green Bould THE TRIP TO MACQUARIE ISLAND HAS BEEN PLANNED EVERY SINCE MY SUCCESSES AT LEMPTON IN 1956 & 7. RADIO PROPAGATION USED AT ASMPTON TO GET THE LONG WAVE COSMIC STATIC THRU THE IONOSPHERE DEPENDED IN PART ON THE MAGNETIC FIELD OF THE EARTH BEING NEARLY VERTICAL. Kempton the angle is 18. from the zenith. At "acquarie Island it is 9° from Zenith. This, in combination with DECREASED SOLAR ACTIVITY SHOULD ALLOW THE OBSERVARIONS TO BE PUSHED DOWN IN FREQUENCY BY ANOTHER FACTOR OF THREE From the map and the fotos I ve seen, it appears THAT SAWYER CREEK VALLEY IS NEARLY THE SAME SIZE AND DIRECTION AS CHUSON VALLEY AT KEMPTON. THEREFORE A NEARLY IDENTICAL INSTALLATION COULD BE MADE. HOWEVER, THERE HAY BE AN ADDITIONAL ADVANTAGE. SAWYER CREEK IS 800 HILES BELOW HOBART AND PROBABLY IS ONE OF THE QUIETEST ELECTRICAL PLACES ON THE FACE OF THE EARTH. THERE IS NOTHING BUT SEA IN ALL DIRECTIONS. I WOULD LIKE TO GET THIS STATION GOING A FEW YEARS BEFORE THE NEXT SOLAR. ACTIVITY MINIHUM SO THAT A CONTINUOUS SET OF DATA MAY BE SECUPED DOWN TO AND JUST THRU THE MINIMUM. I PLAN TO GO HAVE A LOOK TO FIND OUT JUST WHAT IS NEEDED. IF THE PLACE IS AUSPICEOUS, I PLAN TO RETURN THE FOLLOWING YEAR WITH ALL THE GEAR AND MAKE THE SETUP. I WILL STAY THE FIRST YEAR MYSELF TO MAKE SURE EVERYTHING WORKS AS IT SHOULD. AFTER THAT THE AUSTRALIANS CAN PROBABLY UNDERTAKE TO GET THE DATA. WHEN THIS EXPERIMENT HAS BEEN COMPLETED, I believe that we have gone to as low A FREQUENCY AS POSSIBLE HERE ON THE EARTH. TO GET TO LOWER FREQUENCIES WILL REQUIRE THE OBSERVER TO MOVE FARTHER OUT OF THE CORONA OF THE SUN TO SOME PLACE SUCH AS MARS, BEST REGARDS.

LEAVE THIS TO OTHERS!

GROTE REBER