



DEPARTMENT OF NATIONAL DEFENCE
CANADA

DEFENCE RESEARCH BOARD

IN REPLY PLEASE QUOTE
DRTE 391-60/761

Defence Research Telecommunications
Establishment,
Defence Research Board,
Shirley Bay, Ottawa, Ontario.

13th January, 1956.

Dr. Grote Reber,
Carnegie Institution of Washington,
5241 Broad Branch Road, N.W.,
Washington, D.C., USA.

Dear Dr. Reber,

We shall be pleased to have you visit the Radio Physics Laboratory to examine ionospheric records and discuss your views with us. We have reserved a room for you at the Lord Elgin Hotel for the night of 22nd January, 1956. The hotel will hold reservations only until 9:00 PM unless you inform them that you will be arriving later. This hotel is in downtown Ottawa. As the Radio Physics Laboratory is on the western outskirts of Ottawa, some 13 miles from the center of town, there are no hotels anywhere near it. There is bus service and other transportation to the laboratory, a special bus passes your hotel at 0800 AM each morning on its way to RPL. There is other transportation later in the morning.

When you arrive in Ottawa you may phone Dr. Langille at home on Sunday at CEntal 2-1423 for information or Mr. Scott or Dr. Langille at the laboratory on Monday after 0830 AM, CEntal 2-8211 local 5012.

RC Langille

For: Superintendent,
D. R. T. E.

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

1201

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of rec: (04) • TIME at point of destination

WT012 DL PD=WUX WASHINGTON DC 13 951AME=

:DR GROTEREBER CARNEGIE INSTITUTION OF WASHINGTON

:5241 BRO AD BRANCH RD NORTHWEST

=UNCLAS RPL 950 WILL BE PLEASED TO HAVE YOU VISIT THE
RADIO PHYSICS LAB TO EXAMINE IONOSPHERIC RECORDS STOP
HAVE RESERVED ROOM FOR YOU AT LORD ELGIN HOTEL FOR NITE
OF 22 JAN=

:SIGNED SUPT DRTE RPL SHIRLEY BAY OTTAWA ONT=

:CFN RPL 950 22=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

Jew Scott
Radio Physics Wing

9-5012

8:30 - 4:35 pm

Bus schedule

leave corner E. Line & Laurier

orange yellow 800 am

mark D B B #1

DWR McKinley 4 pm

77-487

Division of Radio & Electrical Engineering

Montreal Road.

Sussex Doctor pm 3039

Solar Activity by Roberts

National Research Council

Talk to DRB 1/27/56

Radio Astronomy + Ionosphere
in Tasmania

Intensity proportional to Wavelength

Modes of Propagation thru ionosphere

→ Slit overhead for O mode

1, 2 Sample traces

3 f^oF_2 1.6-2.1 mc + intensities

4 $f^oF_2 < 1.6$ mc — " .

5 sporadic E — " "

→ Celestial intensities along $-43^\circ S$

{ 6 Electron Hole

{ 7 Tail cutoff by E region

{ 8 Building attenuation
1/5000 at 1.01

{ 9 Equipment

{ 10 Ellis

→ Z hole $.8^\circ \times 10^\circ$

→ Discussion of levels + direction

{ 11, 12 Z + spread F

{ 13 Double Z

{ 14 2nd reflection Z

Lower X mode or W hole

15 Page 48

- { 16 Strong gyro
- { 17 Gyro & Z at same freq = ω_H
- { 18 Electron Holes

19 Extraordinary Longitudinal
or Y mode

Discussion about Whistlers

During the past ten days I have frequently ^{thought} ~~thought~~
about ~~your~~ ^{your} interesting discussion ~~of~~ ^{of meteor} ~~craters~~ ^{craters}
on the moon and earth.
Certainly this is one subject which is in great need
of new approaches such as you have outlined. Obvious
craters on the earth will not be found unless a search
made.

also I wish to thank you for your very kind
hospitality at noon and the excellent "Coke" too
you accorded me of the Observatory in the afternoon.

During my stay in Ottawa I had several
discussions with various officers of DRB and NRC
after my experiments have been completed in Tasmania
there is a considerable probability that I may
repeat them in Canada.

Please remember me to your family,

Sincerely yours,

G. Deber

Apparently written during Feb-56