VHF operation memorandam for February 19, 2002 BY S. Nozawa

Experiment name: dlayer_Heat_NI (D-region measurement with Heating)

To investigate the response of an artificial heating of the ionosphere

Ionospheric Stimulation by an High Power Radio Wave Cosmic radio waves and ground based pressure waves are detected to investigate the response of an artificial heating of the ionosphere.

elan files: /kst/exp/dlayer_Heat_NI

Pulse scheme: dlayer-v

Start time: 17:00 UT on February 19, 2002 End time: 23:00 UT on February 19, 2002

Participants: Satonori Nozawa, Kazuhiro Adachi, and Hiroyuki Iwahashi

Before our experiment: test of CP-7 (?)

After our experiment: Nothing

Note: (time in UT) February 19

try to get started, but it failed.

something wrong with EROS3: EROS3 did not come up.

puny was rebooted by assar

17:21 START (enablerec; kir enablerec; sod eneablerec)

17:25 stop and reSTART

rtg

rtpoke tx power_watts 2900000

17:30 about rtpoke tx power_watts 3050000

(check the HV and guess the power from the figure showing Power/HV)

According to mike, heating was

started at 16:50 with 2min on/off at about 4 MHz.

19:16 HRP

19:23 recovered

rtpoke tx power_watts 2970000

22:00 about 3070000

23:00 end

Heating modurations (on/off) at 4.04 MHz with a power of about 90 kW

16:50 30sec on/off

17:20 1min

18:00 2min

18:40 4min

18:40 10min

Summary:

Tx power (3000 kW).

Relatively clear sky in the beggining, but it is low geomanetical activity.

However, at 20:00-21:00 LT, aurora showed up!
