

February 21, 2002

VHF operation memorandum for February 21, 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 21, 2002

End time: 23:00 UT on February 21, 2002

Participants: Satonori Nozawa, Kazuhiro Adachi, and Hiroyuki Iwahashi

Before our experiment: Nothing

After our experiment: Nothing

Note: (time in UT)

February 21

16:40 **START (runexp /kst/exp/dlayer_Heat_NI/dlayer_Heat_NI.elan 16:41)**
 rtg
 Tsys=325 K

16:48 Tx on (2940 kW)
16:53 enablerec

17:00 **? Tx is down (count down mode: need 30 minutes to recover)**
17:06 disablerec

17:17 goppi down. Network problem ? eros has gone!!

17:22 eros v, but it does not working well (stopping....)

17:28 **eros v**
17:31 **runexp**

17:40 **enablerec**

17:42 3000 kW

some aurora precipitation in the E-region

23:00 end

Summary:

Tx power (3000 kW).

Relatively clear/cloudy sky in the beginning, but it is low geomagnetic activity.
