

October 16, 2001

KST UHF operation memorandam for October 16 BY S. Nozawa

Experiment name: CP1LT (normal cp1lt)

Optical-IS simultaneous observation

This SP will be for a simultaneous observation with a multi-wavelengths fixed angle photometer that will be installed at Ramfjord in early October.

elan files: cp1lt.elan, cp1lk.elan, cp1ls.elan (just use cp1lt series)

directory: /kst/exp/cp1lt (cp1lk , cp1ls)

Pulse scheme: cp1lt

Start time: 16:00 UT on October 16, 2001

End time: 01:51 UT on October 17, 2001

Participants: Satonori Nozawa, Masaki Kono, and Kazuhiro Adachi

Before our experiment: Nothing

After our experiment: Nothing

VHF radar is being operated simultaneously (CP7 with 2.6 MW)

For test, cp1lt was runned since 15:30 LT and continued. (before this, tau2 was being tested and its result is not satisfactory. So, I decided to run cp1lt after discussions with Mike and Roger.

Note: (time in UT)

October 16

16:00 START (enablerec; kir enablerec; sod eneablerec)

 800 kW

16:08 800 kW

16:10:45 HRP

16:12 808 kW

16:50 782 kW

18:14 HRP

18:16 739 kW

18:17 821kW

18:49 HRP

18:50:50 448kW

18:52:30 615kW

19:10 700 kw

19:30 We can see a discrete auroral under conditions of clear sky and new-moon.

20:19 706 kW
22:13 728 kW
22:31 901 kW (Tw engineers were shwithced at 22:00UT)
22:35 912 kW
23:00 HRP
23:01 911kW
23:16 HRP
23:18 766 kW

23:39 kir pointrheight 183.8, 77.1, 253.4 (from 292.9 km) SNR 6-8%
23:39 sod pointrheight 183.8, 77.1, 253.4 (from 292.9 km) SNR 3-4 %

October 17

00:09 kir pointrheight 183.8, 77.1, 234.9
00:09 sod pointrheight 183.8, 77.1, 234.9
Became worse

00:10 kir pointrheight 183.8, 77.1, 253.4
00:10 sod pointrheight 183.8, 77.1, 253.4

Data at sodankyla looks something wrong.

00:16 sod setclockdelay
then looks fine but still very low SNR (a few %)

01:10, 01:13, 01:19, 01:24 HRP
01:29 600 kW

01:32 HRP
01:33 540 kW

01:33, 0138, 01:43 HRP
01:46 500 kW
01:49 HRP
01:50 HRP

01:52 stop, END
CANCELED 1-hour.

Summary:

Very low Tx power (500 - 800 kW).

Clear sky in the beggining, but cloudy afterwards.

* HRP = High Reflection Power: 送信電波が規定値以上送電管内で反射される。

