

KST UHF radar operation memorandum for an experiment on October 14, 2007

[General information]

Experiment name & PI : SP_NI_CON, Satonori NOZAWA
Scheduled start/end time : 19 UT on October 14, 2007 to 02 UT on October 15, 2007
Pulse scheme (so-called type if any such as "CP1") : arc1
elan file : /kst/exp/arc1/arc1.elan

operator(s) : Shin-ichiro Oyama, Takuo Tsuda (Engineer: Støjorn)
experiment before us : /kst/exp/tau2pl
experiment after us : N/A

Recording start at : October 14, 2007 19:00:04 UT
Recording stop at : October 15, 2007 02:00:00 UT

[Weather information]

partially cloudy; sometimes clear sky

[Heating operation]

N/A

[Co-operated instruments]

- VHF radar
 - N/A
- ESR 32 m
 - N/A
- ESR 42 m
 - IPY mode
- Optical instruments at Tromsø
 - Photometer, DC, Proton imager(?), NIPR all-sky DC, ATV, WTV

[Description of the experiment]

CP1 run with optical measurements

We will make an optical campaign using aurora cameras, proton imagers and 4-wavelength photometer with the EISCAT UHF radar (CP-1, arc1, tristatic measurements). Clear sky and higher geomagnetic activity are desired. Although we made request for 8 nights, we will run up to 5 nights depending on conditions.

[Memorandum]

18:40 **kir pointdir 337 63**
18:42 **sod pointdir 304 37**
18:53 **runexp /kst/exp/arc1/arc1 fm cp1 NI**
18:53 **kir runexp /kst/exp/arc1/arc1 fm cp1 NI**
18:54 **sod runexp /kst/exp/arc1/arc1 fm cp1 NI**
19:00 **enablerec**
19:00 **kir enablerec**
19:01 **sod enablerec**
19:13 the peak power is ~1500 kW
22:16 crowbar
22:18 the transmitter was recovered; the peak power is 1543 kW.
22:42 crowbar
22:45 the transmitter was recovered; the peak power is 1540 kW.
00:32 crowbar
00:34 the transmitter was recovered; the peak power is 1532 kW.
01:55 stopexp 02:00
01:55 kir stopexp 02:00
01:55 sod stopexp 02:00

[Data directory]

- @EISCAT
 - [/data/arc1u_cp1_1.00_NI@uhf](#)
 - [/data1/arc1r_cp1_1.00_NI@sod](#)
 - [/data1/arc1r_cp1_1.00_NI@kir](#)
 -
- @STEL
- @personal HD