

March 2, 2003

KST UHF operation memorandum for March 2 BY S. Nozawa

(Using Netscape might be in trouble on this page.)

Experiment name: arc1 (normal arc1 with the field-aligned-position:(184.0,77.1, 292.9)

We will make an optical campaign using high resolution aurora cameras and 4-wavelength photometer with EISCAT UHF radar. We strongly hope to use the ARC mode (at field-aligned position) with the UHF radar. Sweden will contribute 8hrs to this campaign. Also Norway will contribute 16hrs. NI(18), SW(8), NO(16)

elan files: arc1-u.elan, arc1-k.elan, arc-s.elan (just use arc1 series)

directory: /kst/exp/arc1-u (arc-k, arc1-s)

Pulse scheme: arc1

Start time: 19:00 UT on March 2, 2003

End time: 01:00 UT on March 3, 2003

Participants: Satonori Nozawa, Shuei Tomida, Hiroshi Miyaoka, and Maarten Blixt

Before our experiment: Nothing

After our experiment: Nothing

But, Heating experiment might be made.

Note: (time in UT)

March 2

Clear sky! We can see starts.... Some activities are going, on though...

18:35 check the antenna status.

sod printexp -> worked

kir printexp -> No answer...

18:43 Phoned Kiruna site, but no answer.

Phoned cell phone, then I got the person on duty. He will be at the site shortly.

No communication with kiruna.

19:00 START (enablerec; sod eneablerec)

1236 kW

pointheight 184.0 77.1 292.9

sod pointheight 184.0 77.1 292.9

19:15 startexp Kiruna 19:15. (kir enablerec)

kir pointheight 184.0 77.1 292.9

Now kiruna works well. We can see signals at Kiruna.

A problem of EROS caused the problem.

March 3

00:56 1294 kW

01:00 stopexp

Summary:

Excellent.

Moderate Tx power (about 1250 kW).

Tx is very stable (amazing).

Clear sky or partly cloudy

Aurora and Black aurora!!
