

## KST UHF/VHF radars operation memorandum for an experiment on 06-07 November 2010

### [General information]

Experiment name & PI : Reimei\_UHF/Reimei\_VHF; Prof. M. Hirahara  
Scheduled start/end time : 2010-11-06 22:00 – 2010-11-07 02:00 UT  
Pulse scheme (so-called type if any such as “CP1”) : CP1 tristatick for UHF; vertical for VHF  
elan file : beata for both (but employed F14 for the UHF instead of F12)

operator(s) : S. Oyama  
experiment before us : N/A  
experiment after us : N/A

Recording start at : 22:01 on 06 November 2010 for UHF; 22:00 on 06 November 2010 for VHF  
Recording stop at : 01:59:50 on 07 November 2010 for the both radars

### [Weather information]

clear sky

### [Heating operation]

no

### [Co-operated instruments]

- Optical instruments at Tromsø
  - STEL: FPI, ASCs (ASC12, Proton), photometer, DC
  - NIPR: DC

### [Description of the experiment]

We conduct coordinated EISCAT-Reimei observations of nightside auroral phenomena. We will also run several optical instruments (e.g., All sky and wide view TV imagers) in the EISCAT Tromsø site. CP-1/CP-3 mode (with beata code) will be used for the UHF radar.

### [Memorandum]

time	comment
21:10-20	test operation with the both radars (no problem)
21:33	@UHF: <b>rem ksu runexp /kst/exp/beata/beata 21:45 cp1 NI 250</b>
21:35	@VHF: <b>runexp /kst/exp/beata/beata 21:50 zenith NI</b>
21:48	@UHF: <b>kir webtg</b>
21:48	@UHF: <b>sod webtg</b>
21:59	@VHF: <b>at 22:00 enablerec</b>
22:01	@UHF: <b>rem ksu enablerec</b>
23:43	@UHF: transmitter was temporally stopped; but recovered shortly
01:43	@UHF: <b>rem ksu stopexp 01:59:50</b>
01:53	@VHF: <b>stopexp 01:59:50</b>

### [Data directory]

- @EISCAT
- @STEL
- @personal HD

### [Brief summary of the experiment]

Mostly clear sky. Geomagnetic activity was relatively low; but some activities for the 1<sup>st</sup> 1.5 hours. The F region remained for the most of observation time.