

December 13, 2004

KST UHF operation memorandum for the December 13 experiment

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

Experiment name: tau2pl (CP2)

This SP (CP2) is made to support a rocket launch from Andoya. All associations have contributed their SP times.

elan files:tau2pl-elan (just use tau2pl series)

Pulse scheme: tau2pl

Start time: 16:00 UT on December 13, 2004

End time: 04:00 UT on December 14, 2004

Participants: Satonori Nozawa, and Takuo Tsuda

Before our experiment: AA EV

After our experiment: nothing

Note: (time in UT)

December 13

Snowing. Temperature is 0 deg.

This is the 9th day for the Delta Campaign, and the last day.

Because the sounding rocket was launched last night.

The waveguide was fixed. We gets nore more power: 1.9 MW

16:03 START

at EROS4 console (UHF)

runexp /kst/exp/tau2pl/tau2pl 16:00 cp2 NI

(292.9 km is set automatically for tristatic measurements)

Tx is on (1402 kW)

16:03 sod runexp /kst/exp/tau2pl/tau2pl 16:00 cp2 NI

kir runexp /kst/exp/tau2pl/tau2pl 16:00 cp2 NI

16:03 enablerec

16:03 sod enablerec

kir enablerec

16:06 at matilda

cd /home/eiscat/users/yogawa

guisdap_delta -a

data path = [/data/tau2pl u cp2 1.10HF NI@uhf](#)

result path = /analysis/results/AUTO; 0 0 0 1 1

at another window

cd /home/eiscat/users/yogawa

update &

<http://www.eiscat.uit.no/~eiscat/yogawa/index.html>

16:06 Tx 1967 kW

16:30 Very low (close to 10^{10} m⁻³) electron density. Is this right ?

17:35 snowing (a bit raining)

18:05 1891 kW

18:44 The ionosphere is very very quiet....

It is 3.3 degrees outside. The temperature increased by 10 degrees from noon.

19:04 HRP

19:07 HRP

19:09 1838 kW

20:08 1847 kW

December 14

02:36 HRP

02:37 1900 kW

02:42 HRP

02:46 1541 kW

Data looks not good. There might be something wrong.

Restart experiment was given a try

02:48 stopexp

02:49 runexp /kst/exp/tau2pl/tau2pl 02:48 cp2 NI

02:50 enablerec

Tx=1649 kW

03:00 VHF radar (Swedish SP) starts. It also shows low electron density profiles.

04:00 stopexp (all sites)

6 degrees

VERYVERY VERY QUIET!!! (or system problem ?)

- AAEV: Aspect angle effects in the velocity of E-region coherent echoes
- A multi-instrument campaign involving EISCAT, CUTLASS (special mode), and STARE. The requested time is overscheduled and cancellation will occur depending on geophysical conditions (moderate to disturbed). The AAEV campaign is coordinated with the CRASE experiment so that if one is cancelled then another one will be run or vice versa. Altogether (AAEV+CRASE) 46 hours are requested while only 34 will be used.