

November 20, 2003

## **KST UHF operation memorandum for Novemer 20 BY S. Nozawa**

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

Experiment name: tau2pl (HFLT5423 with the field-aligned-position:(184.0,77.1, 292.9)

pointgeogr (69.014, 19.116, 292.9)

We will make an optical campaign using high resolution aurora cameras and 4-wavelength photometer with EISCAT UHF radar. Norway will contribute 6 hrs. NI(6), NO(6)

elan files: tau2pl.élan

directory: /kst/exp/tau2pl/tau2pl

Pulse scheme: tau2pl with HFLT5423

Start time: 19:00 UT on November 20, 2003

End time: 23:00 UT on November 20, 2003

Participants: Satonori Nozawa, Kazuhiro Adachi, Yuichiro Tanaka, and Maarten Blixt.

(Prof Miyaoka is at PRE making optical measurements.)

Before our experiment: arc1 (SW)

After our experiment: Nothing

VHF is running (kst0 lti2nv E2 SP)

Heating is running.

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Note: (time in UT)

November 20

It was cloudy at 17:20. However, I saw aurora at 18:40 !!!

The sky is now almost clear. Moderate activity.

**18:59 START**

**runexp /kst/exp/tau2pl/tau2pl 1900 cp1 NI 292.9 HFLT5423**

**kir runexp /kst/exp/tau2pl/tau2pl 1900 cp1 NI 292.9**

sod runexp /kst/exp/tau2pl/tau2pl 1900 cp1 NI 292.9

set local oscillators as follows: LO2-1 = 128.6, LO2-II = 124.0

19:01 enablerec; kir enablerec; sod eneablerec

19:07 1224 kW

High electron density at F-region..

20:18  $N_e = 3 \times 10^{12} \text{ m}^{-3}$ . \*according system constant calculation for the previous

CP2 run by Mike, it is about 0.9

**23:00 stopexperiment**

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**Summary:**

**Moderate Tx power (about 1250 kW).**

**Tx is very stable.**

**Good weather.**

**Geomagnetical activity was high.**

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