Date: February 16, 1989
To : EISCAT data representatives
From : Peter Collis
Subject : CP result tapes

Results from the following experiments are now available and will be mailed to you when the tapes have been copied (estimated 2-3 weeks). System performance plots for these experiments are included.

CP-2-D	15/17 November	1988 (09 07 UT)
CP-5-A	5/10 December	1988 (13 -08 UT)

Notes

1. CP-2-D 15/17 November 1988
No data were available between 0100 UT and 0130 UT on 16th November, and again between about 0200 and 0730 UT, due to a power break in Tromso. There are also a few more brief breaks until the end of the experiment, including a longer one between about 0100 UT and 0200 UT on the 17th.

2. CP-5-A 1/10 December 1988
CP-5-A is essentially a scanning CP-1-H experiment, with the pointing geometry taken from the central part of the CP-3-F scan. The start ranges and range-resolutions of the measurements are adjusted by using different radar controller programs for the different antenna positions, in the same way as CP-3-F. The 30-min scan includes a longer (10-min) dwell in the field-aligned position to allow the remote sites to take E-region measurements (at 96, 101, 109 and 120 km) as well as at the F-region common volume height (278 km) which is used for all other scan positions.

The interval 5-10 December comprises the second campaign of the lower thermosphere coupling study (LTCS-2). The first campaign had a core period 21-25 September 1987, and a further campaign is planned for 30 May to 4 June 1989.

This experiment was almost trouble-free, with just a short gap due to a crowbar on 5th December (1900-1910 UT) and a further gap between 2200 and 2250 UT due to a change of experiment to support a rocket launch. Note that CP-5-A was restarted at 2250 UT, so the scans for the rest of the experiment were not synchronised to whole hours. The results fill two 2400' tapes at 1600 bpi; only the first of these will be shipped now (having results up to 0420 UT on December 8). The second tape, including remote site results, will follow with the next batch of mailings.

Anyone planning to analyse the Tromso CP-5 data for themselves should note a small error in the : ELAN file which caused the wrong start range for the high resolution (14 us) power profile for the vertical antenna position to be written to the parameter blocks on the raw data tapes. A value of 884 (88.4 km) was written instead of the correct value of 664 (66.4 km). The correct value has been used for the ranges on the present result tapes.