

Date: February 2, 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 shortly. System performance plots for these experiments are included.

CP-1-H	6/7 Sept	1988 (08 - 22 UT)
CP-3-F	12/14 Sept	1988 (08 - 22 UT)
CP-1-H	20/21 Sept	1988 (08 - 08 UT)
CP-3-F	25/27 Oct	1988 (1030 - 1130 UT)
CP-1-H	27 Oct	1988 (1530 - 2300 UT)
CP-3-F	9/10 Nov.	1988 (09 - 23 UT)

### Notes

1. Refer to the report "Some effects of recent system behaviour on common program results" for discussions of the data quality for the first five of these experiments.

#### 2. CP-1-H 6/7 September 1988

Variances for the Tromso long pulse results were larger than usual for this experiment, but not as large as for CP-1-H from the previous week (30/8 - 1/9). Plots of the distributions of long pulse variances from CP-1 and CP-2 experiments during 1988 are appended.

#### 3. CP-1-H 20/21 September 1988

Tromso data were corrupted for this experiment and have not been analysed. Results from kiruna and Sodankyla only are included on the tapes.

#### 4. CP-3-F 25/27 October 1988

The start of this experiment was delayed to 1030 UT to allow for tests. Normal operation continued until 0450 UT on 27th October when there was a data gap of about 1 hour, followed by a further gap between 0930 and 1100 UT. An antenna problem in Tromso caused the experiment to be stopped just before 1130 UT. Note the gradual increase and decrease of system temperature around midnight of 25/26 October. This pattern is similar to that observed on a small number of other occasions in the past and seems not to be related to the recent, more erratic system temperature variations. Both Tromso and remote densities were very low at these times, making it difficult to determine whether the observed variations are real or system-induced.

#### 5. CP-1-H 27 October 1988

This experiment was run to fill the scheduled CP time to 23 UT instead of CP-3-F, due to the Tromso antenna problem.

#### 6. CP-3-F 9/10 November 1988.

The Tromso antenna azimuth was disabled between 04 and 0547 UT on 10th November, resulting in off-meridian scans from the north to the zenith and back again during this interval. The remote sites continued normal scanning and only picked up the scattered signal from the overhead Tromso position for the affected scans.