Date: April 18, 1994
To: EISCAT Data Representatives
From: Peter Collis
Subject: Common programme results tapes

Data from the following experiments have now been analysed and a tapes containing results in the standard format will shorttly be distributed. Plots of system temperature and transmitter peak power during these experiments are enclosed.

(1993)		
CP -3 - G	9 - 10 Nov	(1100 - 2300 UT)
CP -7 - E	9 - 10 Nov	(1200 - 2300 UT)
CP -4 - B	7 - 9 Dec	(0600 - 1800 UT)
(1994)		
CP -4 - B	11 - 14 Jan	(0700 - 1600 UT)
CP -3 - G	7 - 9 Feb	(2200 - 2300 UT)
CP -7 - E	7 - 9 Feb	(2200 - 2300 UT)
CP -1 - K	15 - 16 Mar	(1600 - 2300 UT)
CP -6 - B	15 - 16 Mar	(1620 - 2300 UT)

Notes:

1. CP-3-G, 9-10 November, 1993.
Data were lost between 0540 and 0630 UT on 10 November in Kiruna due to an antenna failure. Signal levels at the remote remote sites were very weak on both evenings in the southern parts of the scans in the vicinity of the inospheric trough, causing some gaps in the results.

The heater was operating at 4.04 MHz from 1113 to 1118 UT, and from 1141 to 1148 UT, on 9 November, ie. During the central parts of the first two scans. Enhancements can be seen in the power profiles and these data have been used as a cross-check on the system calibration. Dynasonde data were also used.

2. CP-7-E, 9-10 November, 1993.
The raw power profile data were found to differ by a factor of two, which has been corrected for in the analysis. Otherwise there were no reported problems.

3. CP-4-B, 7-9 December, 1993.
Signals from the beam phased at an azimuth of 344.2˚ were observed to be about a factor of two smaller than those from the unphased beam during this operation.The cause of this could not be located during the experiment. The resultant electron densities from the analysis are thus underestimates for the phased beam.

4. CP-4-B, 11-14 January, 1994.
The difference in snr between the two beams noted in (3) above persisted through this operation also. The two intervals of relatively low transmitted power during the first two night were during operation of the UHF system to support a rocket campaign from Andøya.

5. CP-3-G, 7-9 February, 1994.

The experiment was stopped between 2305 and 2330 UT on 7 February for the correction of a computer problem. A gap of a few minutes just before 03 UT on 8 February resulted from difficulties with the transmitter.

6. CP-7-E, 7-9 February, 1994.

There is a gap of about half an houf near 1730 UT on 9 February when it proved difficult to raise the high voltage following a crowbar. The raw power profile data differ by a factor of two, which has been corrected for in the analysis.

7. CP-1-K, 15-16 March, 1994.

There are two sizeable gaps in the data around midnight due to scheduled interruptions to the main power supply. The periods affected were 2300 to 2323 UT and 0108 to 0137 UT. Breaks of a few minutes occurred following crowbarsat 1610, 1752 and 2117 UT (15 March) and 1220 UT (16 March).

8. CP-6-B, 15-16 March, 1994.

The scheduled interruptions to the main power caused gaps at 2250-0017 UT and 0102-0151 UT.