

Date: February 21, 1988
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-3-E 8/9 March, 1988
CP-1-H 16/20 March, 1988
CP-1-H 5/7 April, 1988
CP-2-D 11/13 April, 1988

Notes

1. The frequencies which are received at the remote sites have been changed in all common programs so that they are as low as possible and thus as far away as possible from the frequencies used by the Nordic mobile telephone system (NMT900) which has recently reached the kiruna and Sodankyla areas.

2. CP-3-E 8/9 March

This experiment started at 09 UT on the 8th and finished at 20 UT on the 9th. All sites have a data gap of about 40 minutes before 15 UT on the 9th.

Results from Sodankyla are unreliable, and electron densities are certainly wrong, before 14 UT on the 8th. This was due to the polarizer having been put into bypass for a previous experiment, and not having been connected into the receiving system until 14 UT. Thus the signals were attenuated in an irregular way as a function of antenna elevation, and were most severely decreased in the centre of the scans. Derived densities from the outer six positions in the scan, at both the northward and southward ends, were very similar to the values from Tromso and these results are probably little affected.

3. CP-1-H 16/20 March

This experiment started and ended at 09 UT, and was an almost uninterrupted operation at all sites.

4. CP-1-H 5/7 April

The Tromso system temperature plot for this experiment shows an abnormal increase and subsequent decrease between 08 and 18 UT on April 6. This produced under-estimated electron densities from each of the four different pulse modulations, and the accuracy of the values of the other parameters is questionable. Results from Tromso for this interval are not included on the result tape.

5. CP-2-D 11/13 April

The results from this experiment filled more than one 2400' tape. Results from all three sites up to 10 Ut on 12th April are included on the same tape as CP-1-H (5/7 April). The remaining results are on another tape which will be mailed with the next batch.