

Date: June 21, 1989
To : EISCAT data representatives
From : Peter Collis
Subject : Results from Unusual Programs (UP's)

Since December 1987, EISCAT has had a set of three Unusual Programs (UP) which are intended to be run at short notice under specific geophysical conditions. These three experiments and their aims are :

UP-1-A For D-region disturbances (same as GEN-11)
UP-2-A For studies of stable auroral arcs (a scanning CP-1-H)
UP-3-A For sporadic-E studies (same as GEN-6B)

The data collected during these experiments are treated as Common Program data and as such will also be analysed at EISCAT and the results distributed to the Associates in standard format just like Common Program results. The first tape containing such results has now been completed and will soon be in the mail. This contains results from all runs of UP-2 and UP-3 to date. Analysis procedures for UP-1 are still being refined and results from those runs will be sent out at a later date.

The experiments on the present tape are as follows, and plots of system temperature and transmitter power during the runs are enclosed.

UP-2-A 7 December 1987 (1420 - 1535, 1800 - 2007 UT) monostatic
UP-2-A 4/5 April 1988 (2355 - 0045 UT) tristatic
UP-3-A 14 December 1987 (0900 - 1240 UT) tristatic

The operations of UP-2 and UP-3 in December 1987 were tests only, and geophysical conditions were generally quiet. The UP-2 run in April 1988, however, was operated because conditions seemed interesting.

Notes

UP-2 data have been integrated according to antenna motion, the dwell being nominally 1 minute in each position. The UP-3 data have been post-integrated over 5 minutes since conditions were quiet. Note that there are two sets of Tromso results from UP-3 on the result tape (files 41-43 and 46-47). This arises from the way the analysis is done; the first set includes the first 130 multipulse gates (of 200), plus long pulse and power profile results whereas the second set contains the last 70 multipulse gates and the long pulse and power profile results are again included. The MODEXP codes for UP experiments are set to 6999 for power profile and 7000 for ACF results, as usually used for analysis of special experiments at EISCAT.