

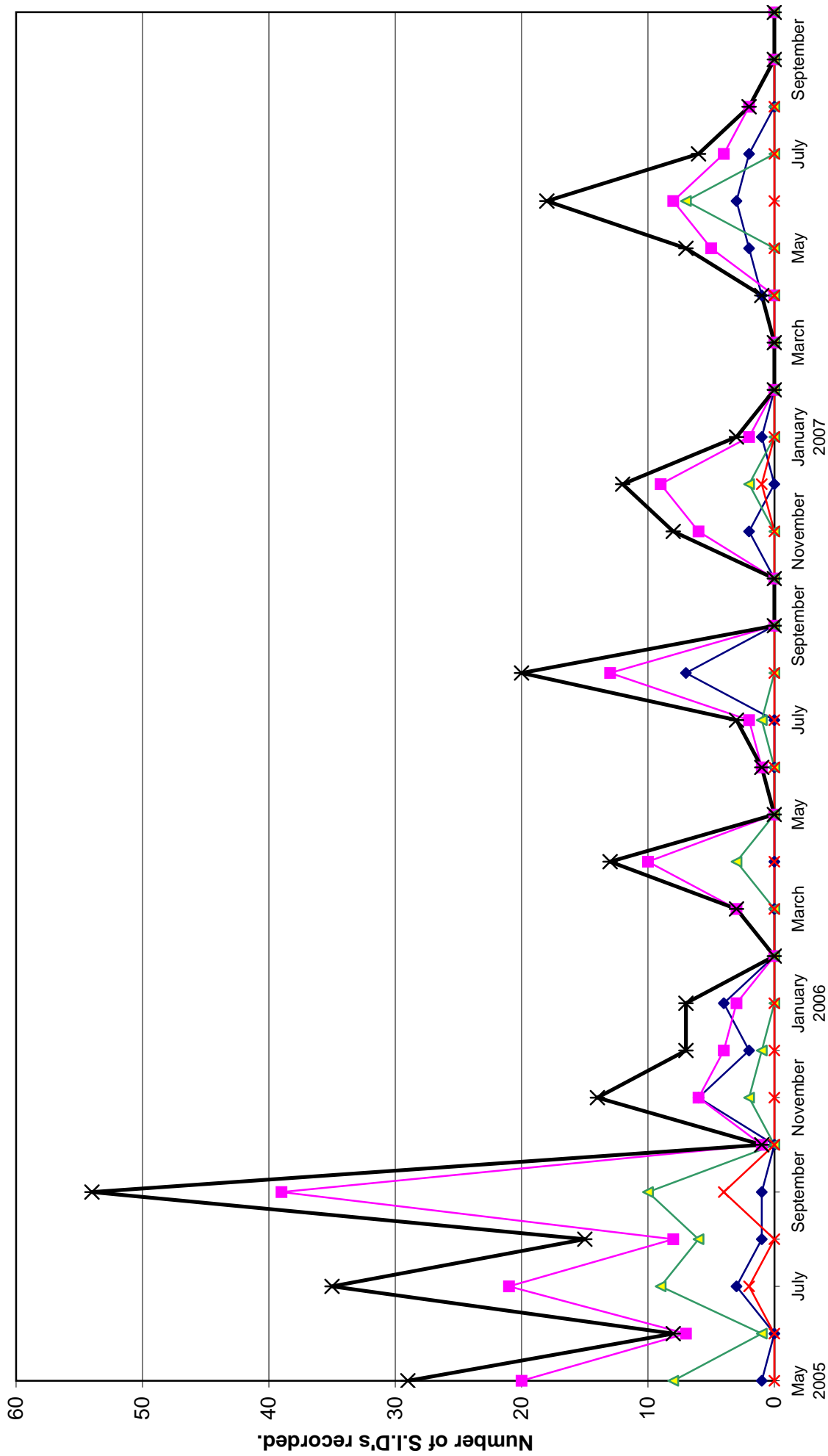
2007 OCTOBER

DAY	Xray class	Observers	John Cook (23.4kHz) Tuned radio frequency receiver, 0.58m frame aerial. START PEAK END (UT)	Roberto Battaiola (20.9kHz) Modified AAVSO receiver. START PEAK END (UT)	Nigel Curtis (23.4kHz) Spectrum Lab / PC. Shielded loop aerial. START PEAK END (UT)	Bob Middlefell (22.1kHz) Tuned radio frequency receiver, 0.5m frame aerial. START PEAK END (UT)	Mark Edwards (20.9kHz) Spectrum Lab / PC, 2m loop aerial. START PEAK END (UT)

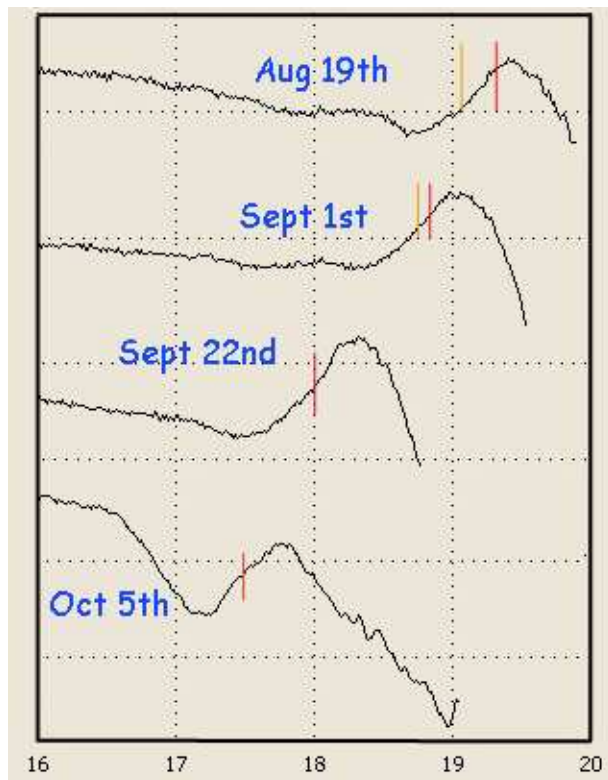
DAY	Xray class	Observers	Colin Clements (23.4kHz) AAVSO receiver, 0.76m screened loop aerial. START PEAK END (UT)	Karen Holland (19.5kHz) Tuned radio frequency receiver, 0.58m frame aerial. START PEAK END (UT)	Mike King (20.9kHz) AAVSO receiver. loop aerial. START PEAK END (UT)	John Wardle (23.4kHz) Gyrator MKII receiver, loop aerial. START PEAK END (UT)	Peter King (16.8kHz) Gyrator MK II receiver, 1.4m loop aerial. START PEAK END (UT)

The GOES data for October records a single B1.2 flare peaking at 23:07UT on the 5th. Our own record is therefore completely blank again.

VLF flare activity 2005/7.



With no flare activity to report, I have received 2 interesting studies of sunset and sunrise activity. The first, from Mark Edwards in Coventry, charts the changes in sunset time over the last couple of months. In each recording, the red line is the sunset time local to the observer, and the orange line is the sunset time local to the 20.9Khz transmitter in France.

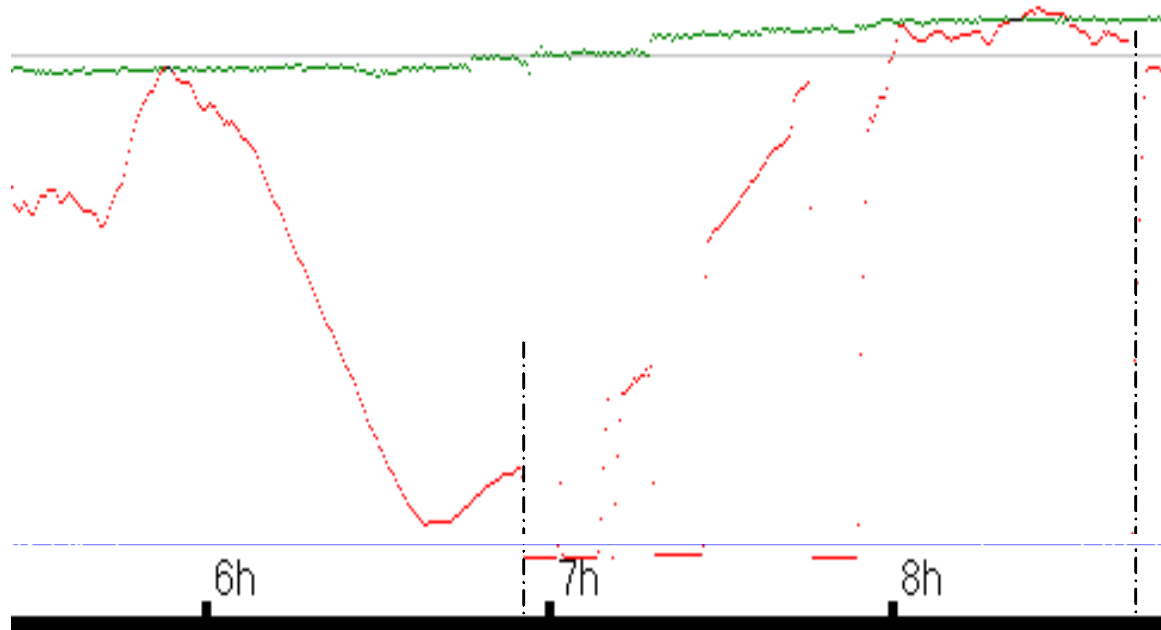


It highlights the rapid changes in daylight hours at this time of year, and therefore our observing time each day. Regardless of solar activity changes, our observed SID numbers will vary with this change through the year.

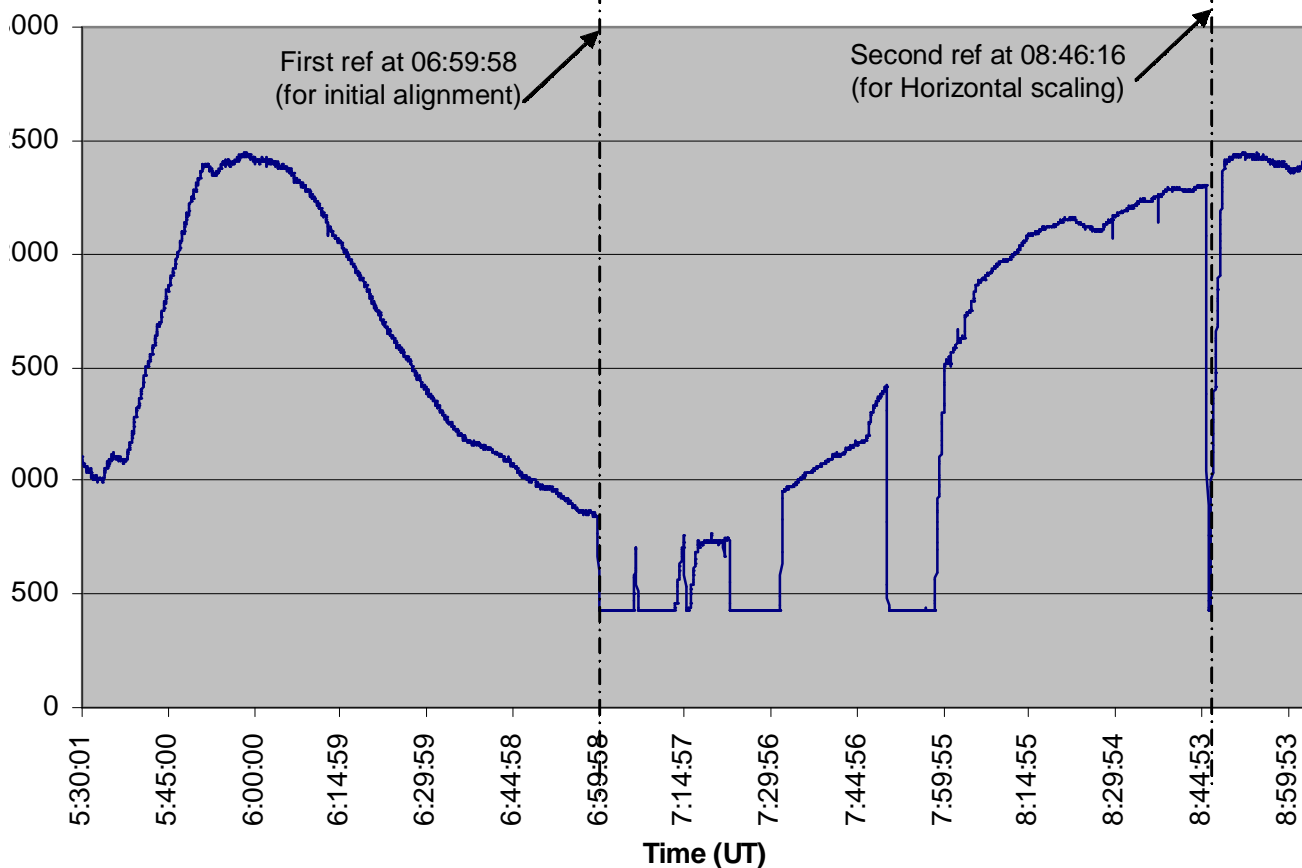
The second chart, from Paul Hyde, shows the relative timing of the sunrise dip at 2 locations. My location is 52.6N, 2.2W, a distance of 164km from Paul in Basingstoke. The breaks in the 23.4kHz transmission from Germany (due east from me) serve to align the timing of the 2 recordings relative to the sunrise dip.

Comparison of Received Signal Strength, 23.4 kHz

Tuesday 22nd October 2007



Location 1: Wolverhampton, UK Long Lat 10/07



Location 2: Basingstoke, UK Long 01 05' 47" Lat 51 16' 20"