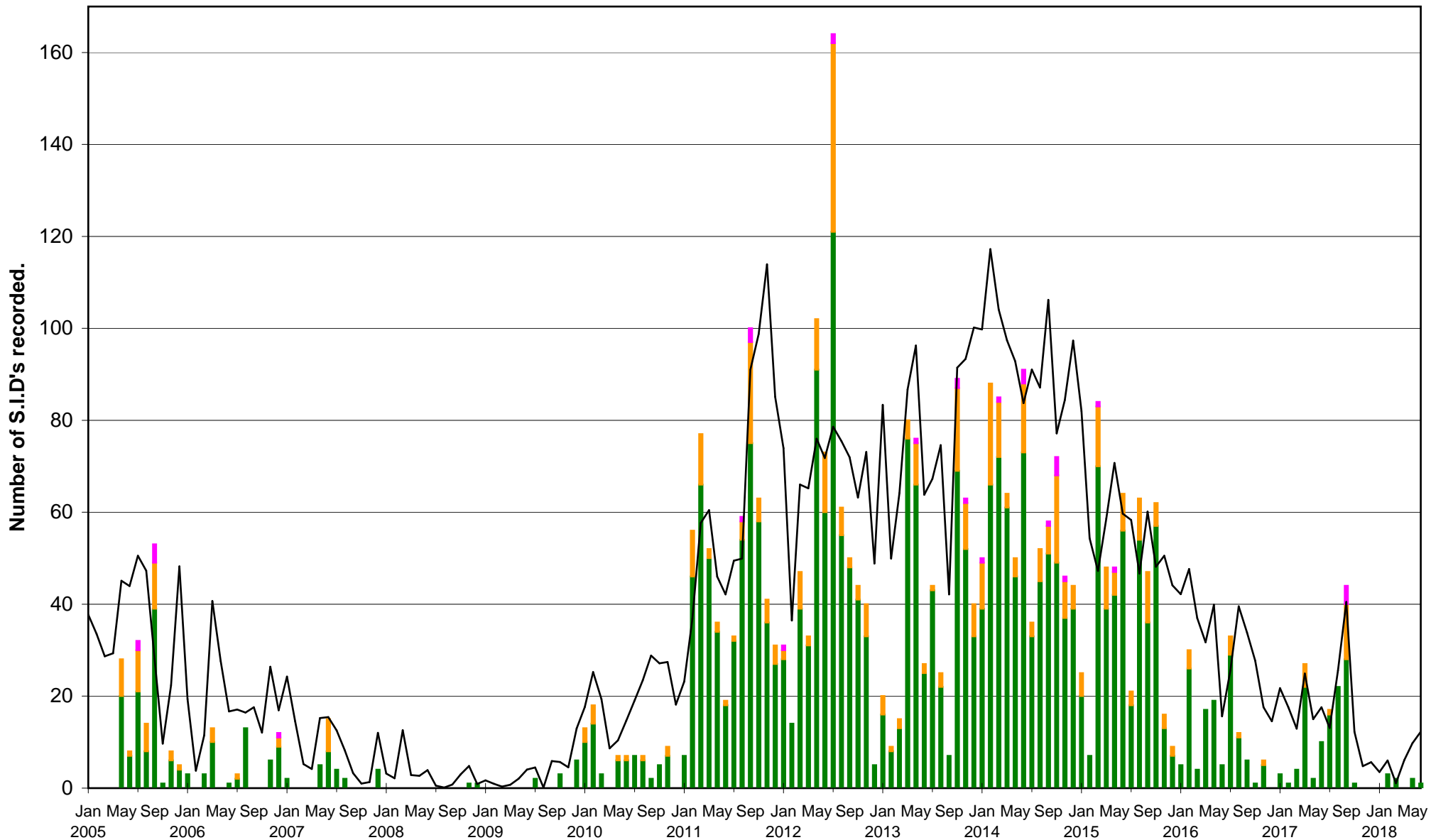
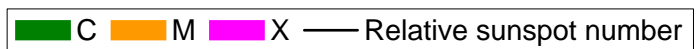


	Xray class	Observers	John Cook (23.4kHz/22.1kHz)	Roberto Battaiola (20.9kHz)	Paul Hyde (22.1kHz/24kHz)	Mark Edwards (24.0kHz)	Colin Clements (23.4kHz/22.1kHz)
			Tuned radio frequency receiver, 0.58m frame aerial.	Modified AAVSO receiver.	Spectrum Lab / PC 1.5m frame aerial.	Spectrum Lab / PC 2m loop aerial.	AAVSO receiver, 0.76m screened loop aerial.
DAY			START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)
6	C1.0	2			10:56 11:03 11:27 1+	10:58 11:01 11:27 1+	

	Xray class		Steve Parkinson (Various)	Andrew Thomas (23.4kHz)	Phil Rourke (23.4kHz)	Jim Barber	John Elliott (18.3kHz)
			Tuned radio frequency receiver, frame aeriels.	Tuned radio frequency receiver, 0.6m frame aerial.	Spectrum Lab, 0.6m frame aerial.	Spectrum Lab, 0.6m frame aerial.	Tuned radio frequency receiver, 0.5m frame aerial.
DAY			START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)
6	C1.0						

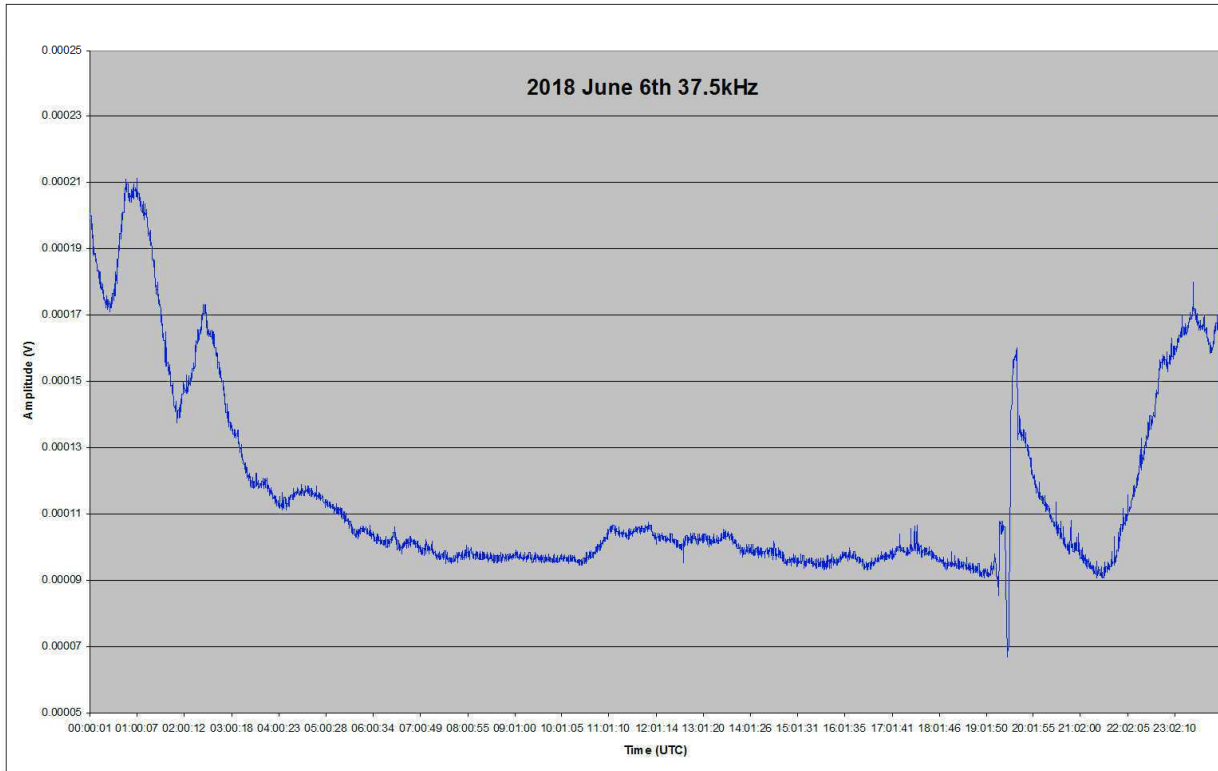
	Xray class		Colin Briden (22.1kHz)				
			Spectrum Lab / PC, 1.2m frame aerial.				
DAY			START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)	START PEAK END (UT)
6	C1.0						

VLF flare activity 2005/18.



Activity through June has again been very low, with just a single C1.0 flare recorded as a SID. The strongest flare in the GOES data was C2.1, but very badly timed at 01:15UT on the 21st. There were a number of very small B-class flares from active regions AR2713 and AR2715. Background X-ray flux started the month at A7/8 levels, dropping below A1 from the 8th to the 10th. Activity around the C2.1 flare increased the background to B1, but it then fell back to A2 by the end of the month.

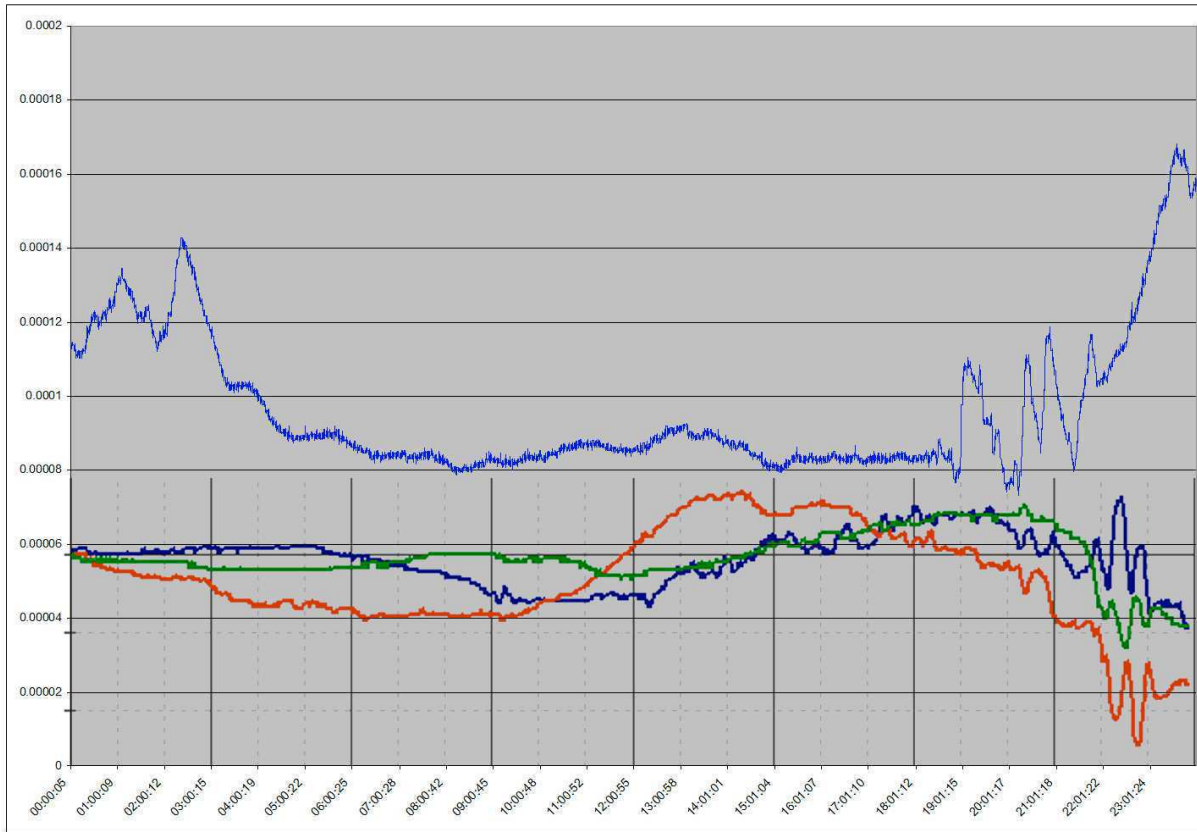
MAGNETIC OBSERVATIONS.



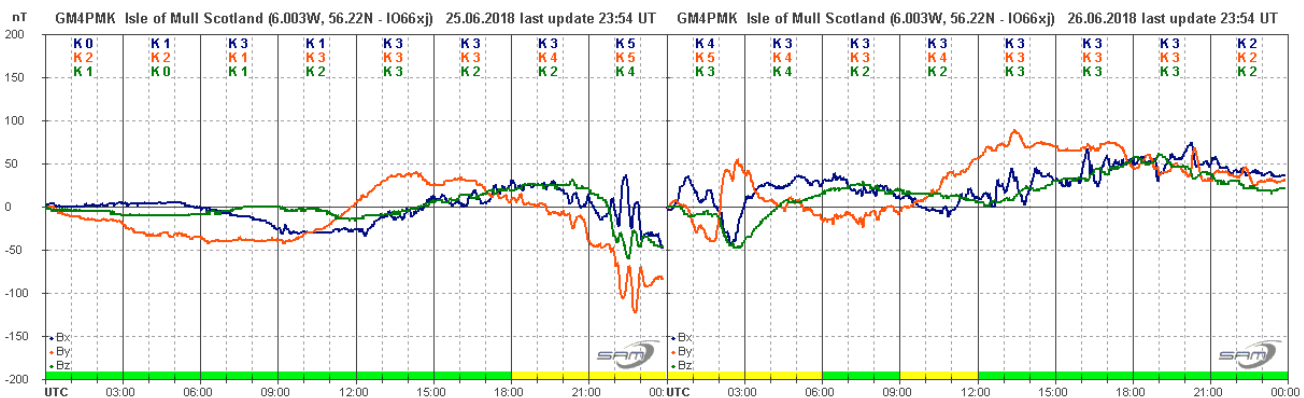
This recording from Mark Edwards shows the 37.5kHz signal on June 6th, with a very strong transient present from 19:08 to 19:42UT. There was a very short magnetic disturbance recorded in Roger Blackwell's magnetometer, although quite small given the size of the VLF disturbance. Satellite data shows a small pocket of increased plasma density in the solar wind, but its source was unknown.

Another oscillation-transient was recorded at 37.5kHz on the 25th. Mark's chart for this is shown on the next page, with Roger's 3-axis magnetometer shown underneath. There seems to be a two hour delay between the start of the VLF disturbance and the magnetic oscillation, but the two signals do seem to be related.

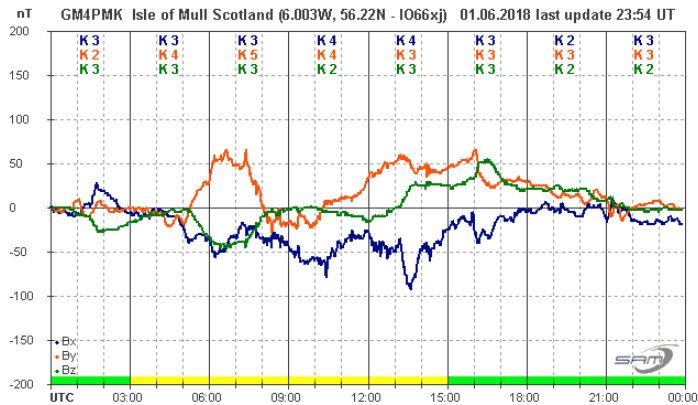
All of the magnetic activity shown in the Bartels diagram is from coronal hole high speed winds. This month the most active holes were all in the sun's northern hemisphere, and had broken up from the large holes seen on previous rotations into groups of smaller holes. There were no CMEs reported in the satellite data.



June 25th, 37.5kHz Mark Edwards. Magnetic from Roger Blackwell.



Roger's charts show the disturbance starting in the afternoon of the 25th, and continuing with some fairly rapid variations all day on the 26th. Activity then faded away early on the 27th. There were also some rapid variations on the 1st, shown in Roger's recording below.



Magnetic observations received from Colin Clements, Roger Blackwell, Gonzalo Vargas, John Cook.

