

Please send all reports and observations to jacook@jacook.plus.com

BAA Radio Astronomy Section.

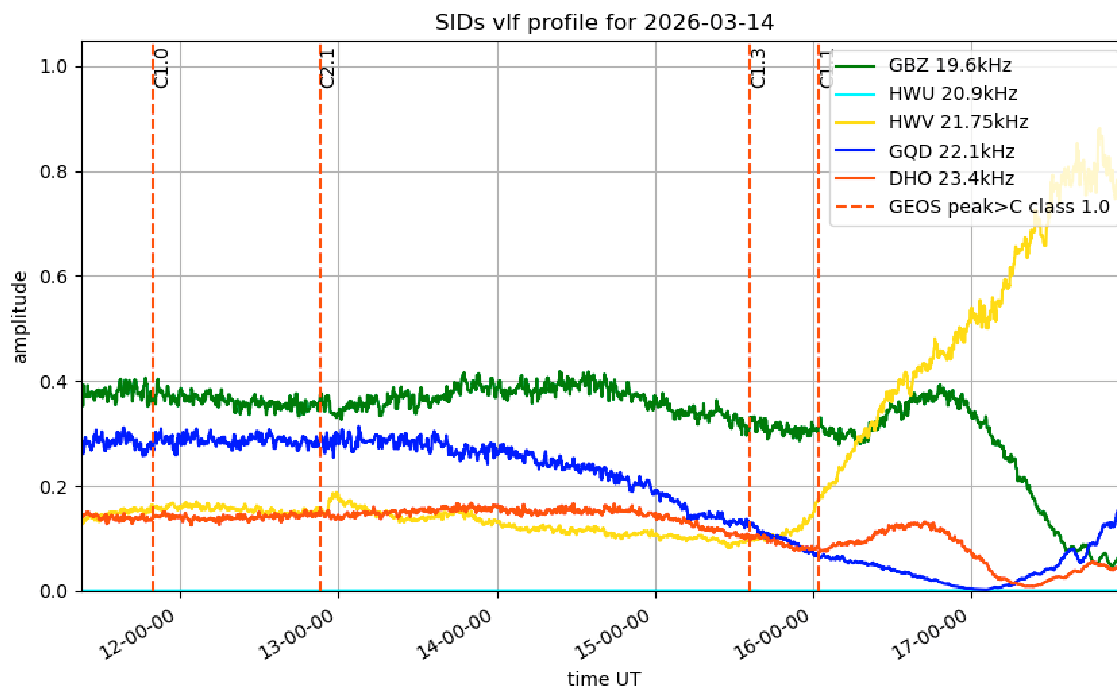
Director Paul Hearn.

RADIO SKY NEWS

2026 MARCH.

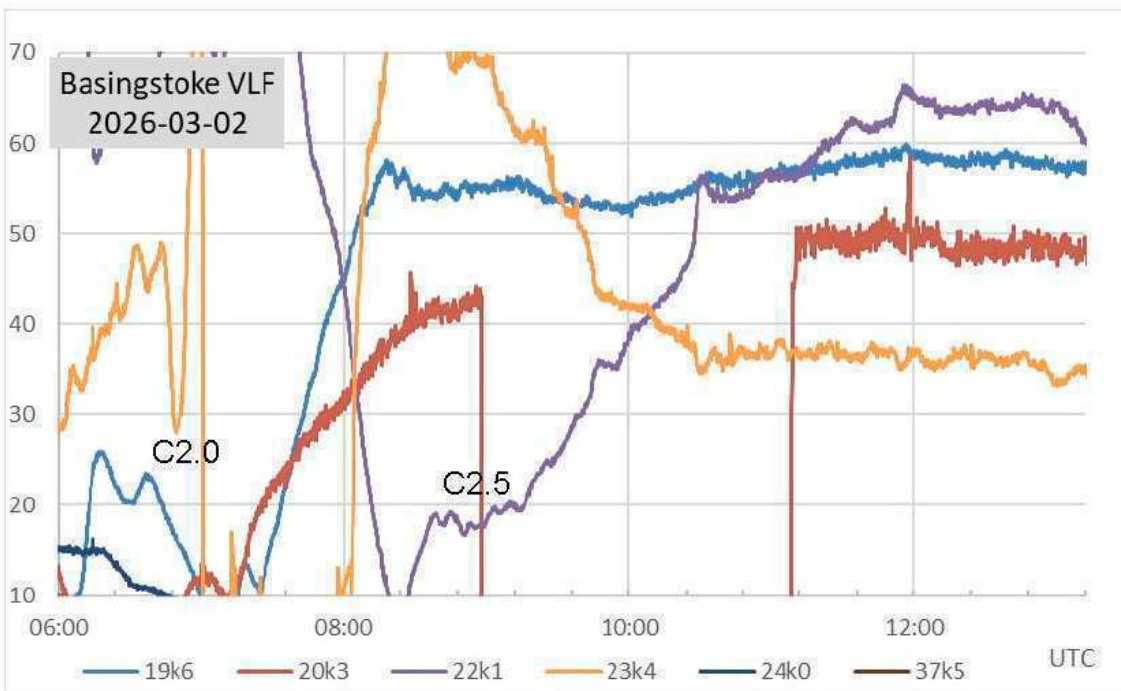
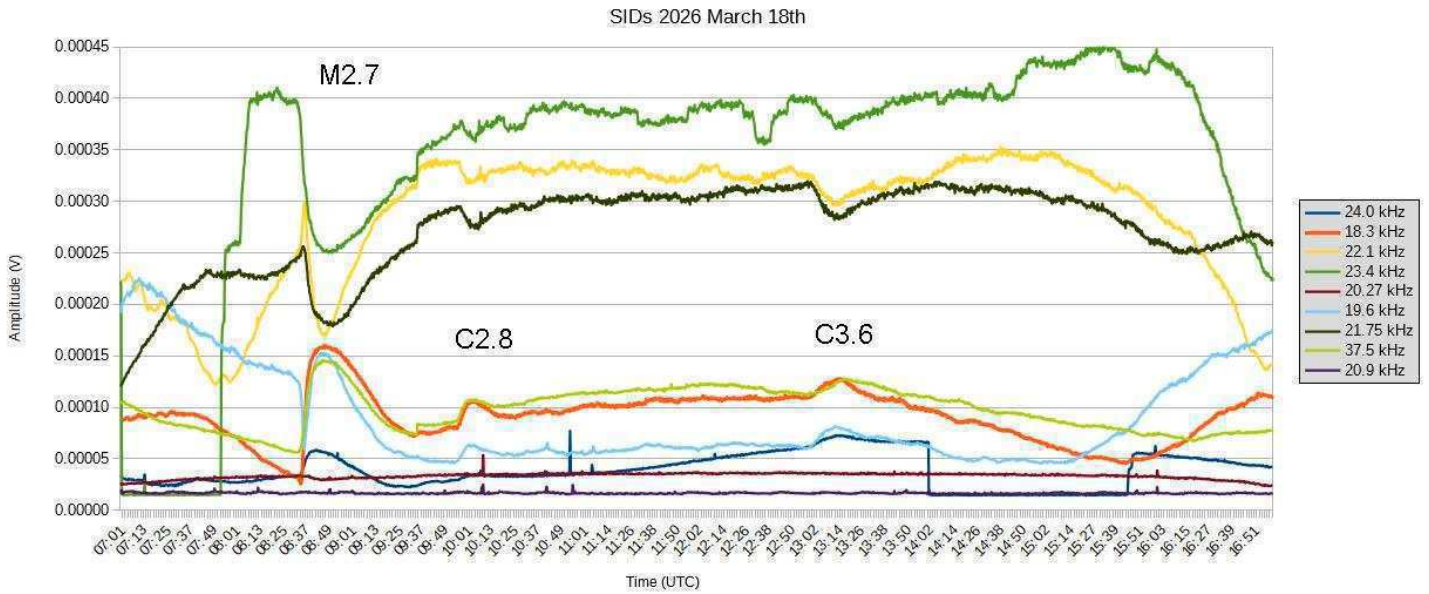
VLF SID OBSERVATIONS.

Flaring activity in March was much lower than in February, with a total of just 32 flares recorded as SIDs. There were no X-flares recorded, and six M-flares. The higher solar altitude in March has allowed plenty of the smaller C-class flares to produce clear SIDs against a lower general disturbance noise.



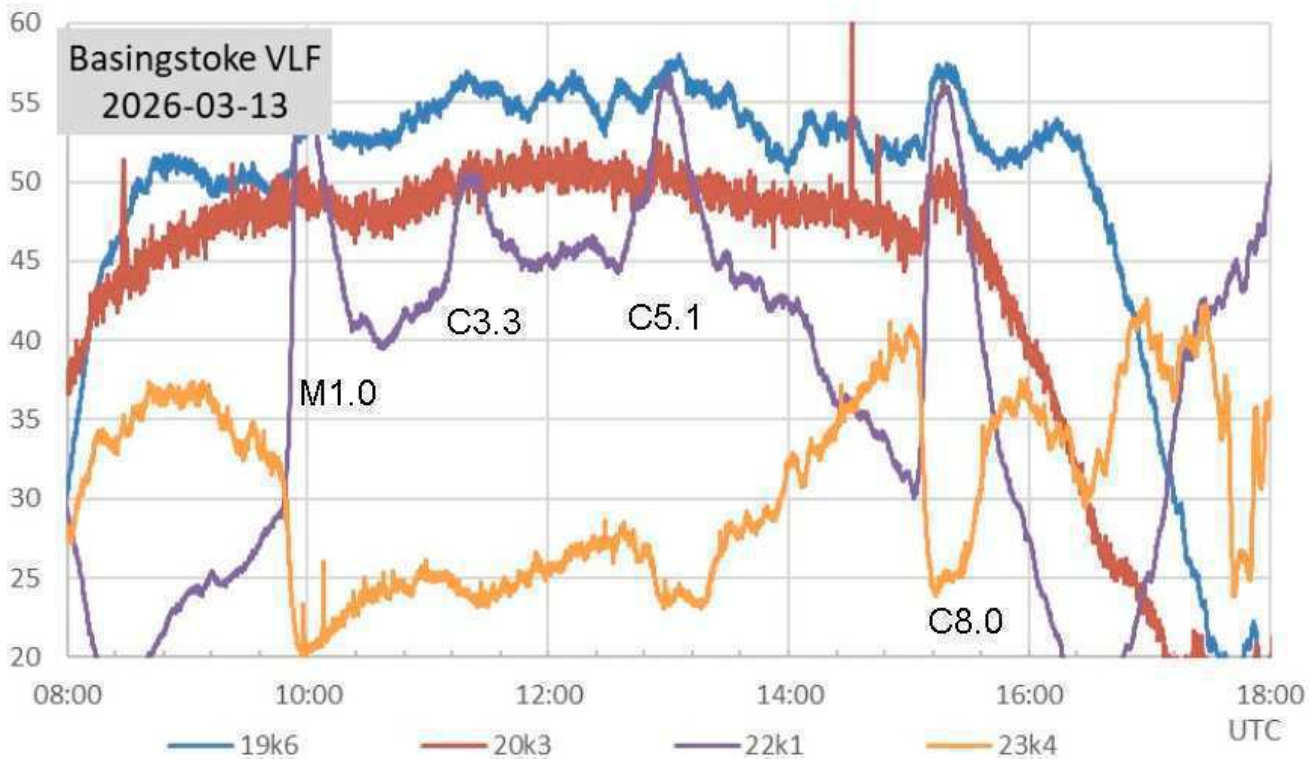
Mark Prescott's recording from the 14th shows some very small C-flares. The C2.1 at 12:59UT has produced a clear SID at 21.75kHz, with a smaller SID at 19.6kHz. There is even a very small dip at 23.4kHz. The two afternoon flares were too late to catch the best conditions, occurring just as sunset was starting. The earlier C1.0 flare has not had any effect.

Mark Edwards' recording from the 18th shows a strong M2.7 flare at around 08:40UT, just after the sunrise effect. There are also quite strong SIDs from the two smaller C-flares later on. 23.4kHz is the least clear, as is often the case.



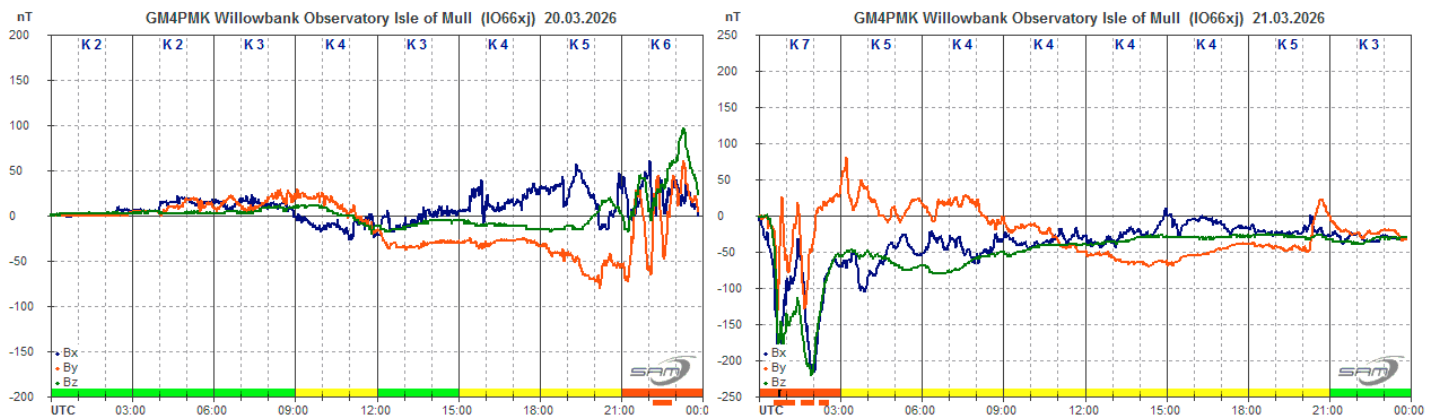
Paul Hyde's recording on the 2nd is much harder to analyse. The two small C-flares appear to have produced small SIDs, but amongst the background noise they are difficult to see. Paul's timings do match the satellite data for these flares.

His recording from the 13th (on the next page) shows much clearer SIDs at 22.1 kHz, although the other signals do not seem to have responded well. 23.4kHz has some smaller dips in the signal, while 20.3kHz only shows the C8.0 flare. The transmitter site for 19.6kHz is very close to that for 22.1kHz, but it also shows just random noise.

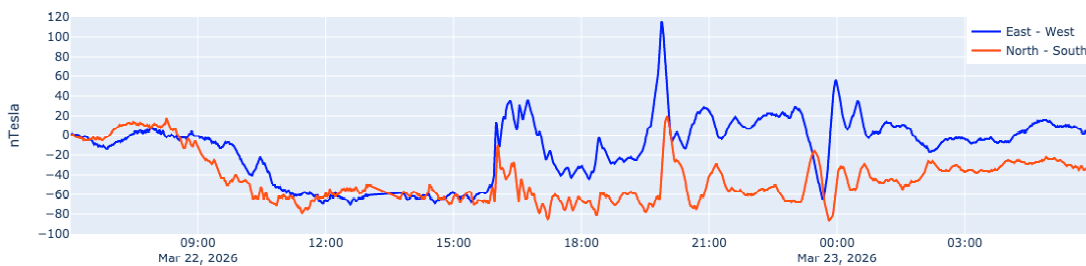


MAGNETIC OBSERVATIONS.

The strong flaring in mid-March along with coronal hole winds created some strong magnetic activity starting on the 20th. Note the change in vertical scale in Roger Blackwell's charts:

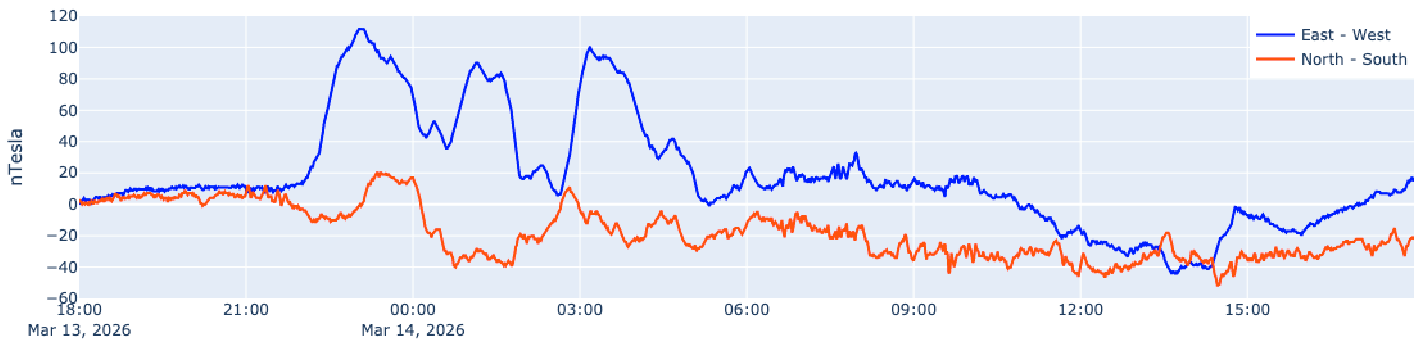


Steyning Magnetometer (50.8 North, 0.3 West)



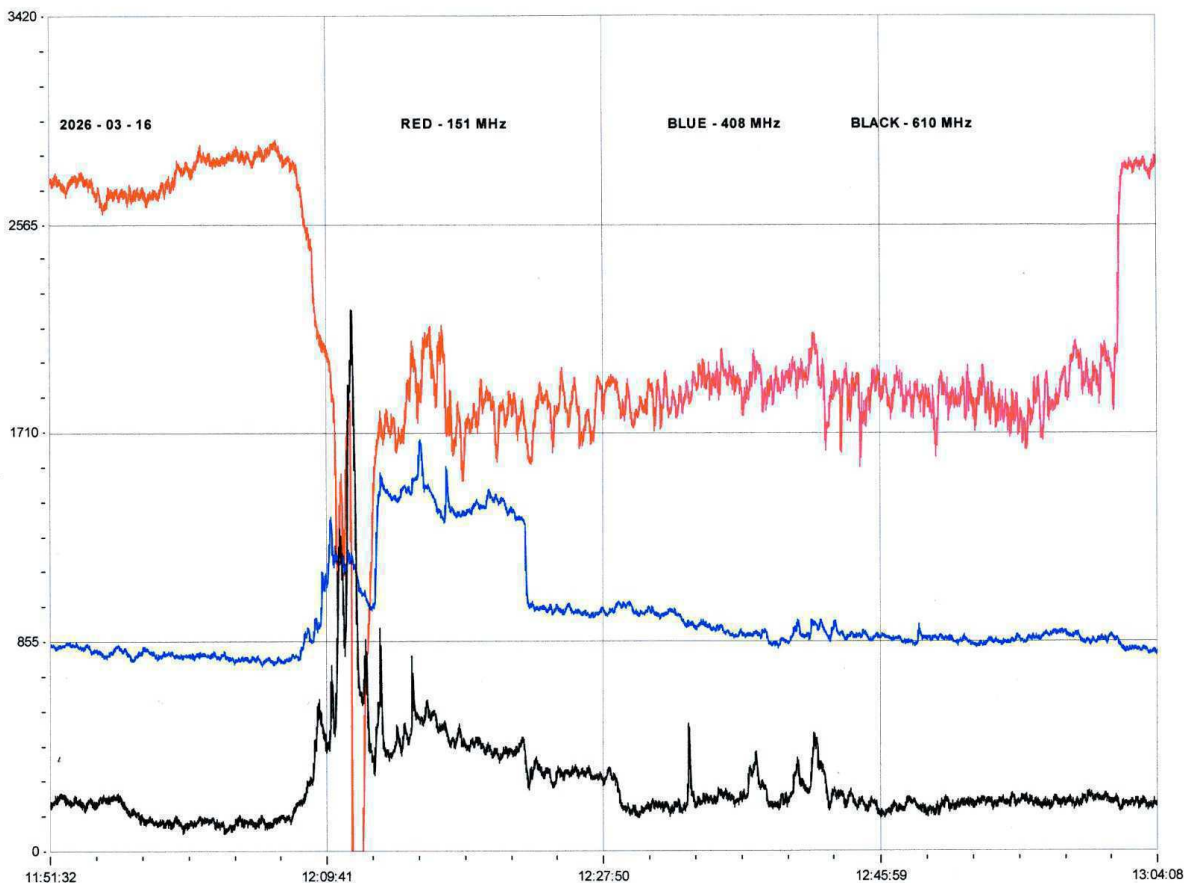
Nick Quinn's chart shows the 22nd and early morning of the 23rd, with a very sharp spike just before 16UT. There were several CMEs shown in the satellite data, so the exact source is not clear. During March the Earth-Sun alignment is such that the solar wind has a stronger effect on the Earth's magnetic field, so increasing the strength of the activity. The decay phase of the current solar cycle is also producing some larger coronal holes with stronger solar winds. Nick Quinn's chart from the 13th and 14th shows a fairly slow disturbance from a solar wind following a week without any strong flaring. A brief active period late on the 3rd was also due to a coronal hole wind.

Steining Magnetometer (50.8 North, 0.3 West)



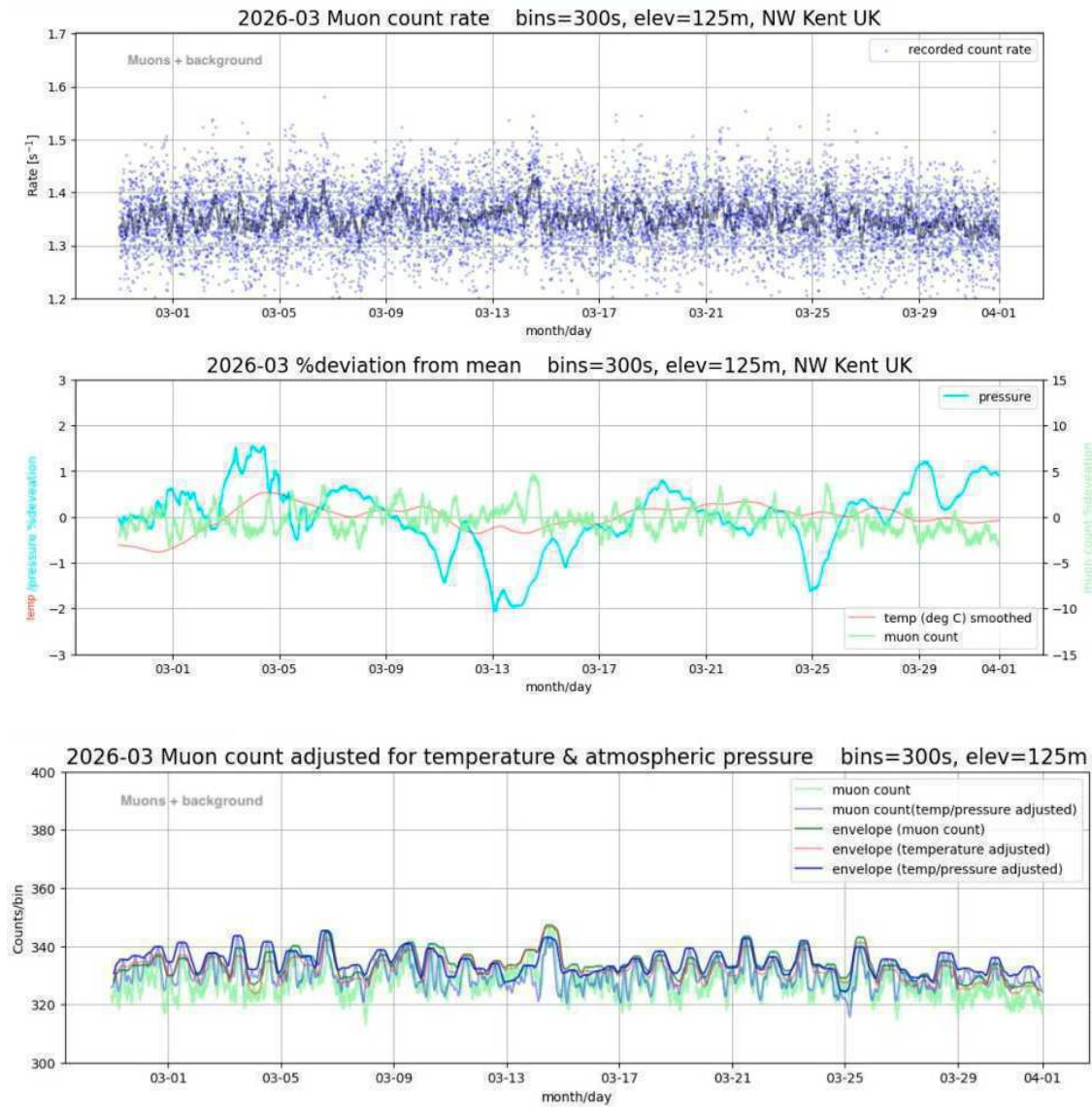
Magnetic observations received from Roger Blackwell, Nick Quinn and John Cook.

SOLAR EMISSIONS

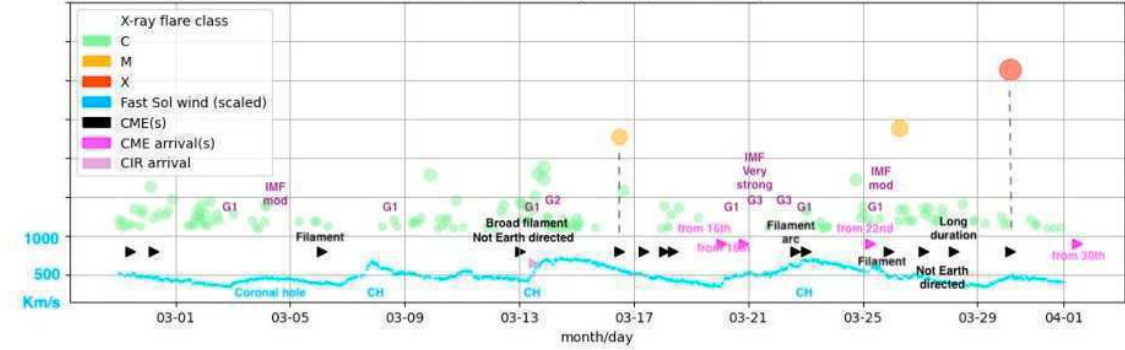


Colin Clements recorded a very strong emission matching the M2.7 flare on the 16th. 408MHz (blue) and 610MHz (black) both show a strong rise in signal strength, followed by a decay lasting about 15–20 minutes. 151MHz (red) shows a very strong drop in signal strength at the flare’s peak, rising again after just a few minutes. The SWPC bulletin lists type II and IV noise emissions, along with a 10.7cm burst at the same time.

MUONS

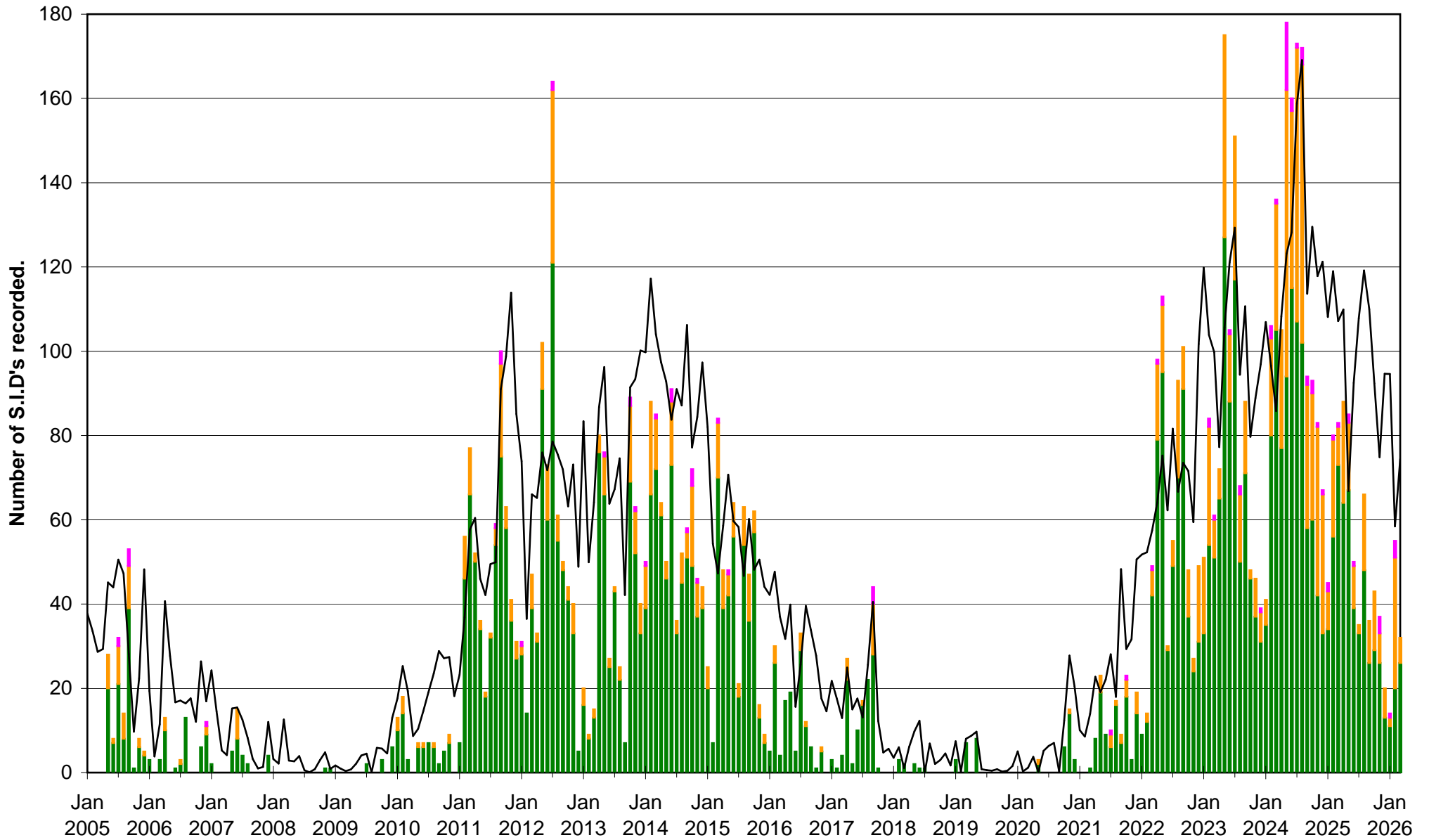
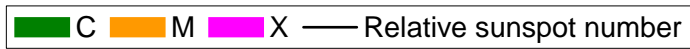


GEOS 16 X-ray flux (max time)



Mark Prescott's Muon charts show mostly diurnal peaks in the pressure/temperature corrected counts, with just a few slightly stronger peaks. The large coronal hole mid-month along with plenty of C-flares produced a larger peak on the 14th (see Nick Quinn's magnetic recording). The series of daily peaks from the 21st may also be from the coronal hole high speed wind. We also recorded a probable CME impact on the 22nd, so adding to the effect.

VLF flare activity 2005/26



BARTELS DIAGRAM

ROTATION	KEY:	DISTURBED.	ACTIVE	SFE	B, C, M, X = FLARE MAGNITUDE.	Synodic rotation start (carrington's).
2597	F	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1				2280
2598	F	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				2281
2599	F	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				2282
2600	F	27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22				2283
2601	F	23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19				2284
2602	F	20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				2285
2603	F	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12				2286
2604	F	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8				2287
2605	F	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4				2288
2606	F	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1				2289
2607	F	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				2290
2608	F	29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				2291
2609	F	25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21				2292
2610	F	22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17				2293
2611	F	18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13				2294
2612	F	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12				2295
2613	F	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8				2296
2614	F	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5				2297
2615	F	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1				2298
2616	F	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				2299
2617	F	29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				2300
2618	F	26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21				2301
2619	F	22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17				2302
2620	F	18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14				2303
2621	F	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10				2304
2622	F	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7				2305
2623	F	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3				2306
2624	F	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				2307
2625	F	31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				2308
2626	F	27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				2309
2627	F	26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21				2310

BAA Radio Astronomy Section.

2026 MARCH.

DAY	Xray class	Steve Parkinson (Various)				Andrew Thomas (18.3kHz)			Phil Rourke (23.4kHz)				Mark Prescott (19.6kHz/21.75Hz)				John Elliott (19.6kHz)			
		Tuned radio frequency receiver, frame aerials.				Tuned radio frequency receiver, 0.6m frame aerial.			Spectrum Lab, 0.6m frame aerial.				SpetrumLab/Starbase, mini-whip aerial.		Active	Tuned radio frequency receiver, 0.5m frame aerial.				
		START	PEAK	END (UT)		START	PEAK	END (UT)	START	PEAK	END (UT)		START	PEAK	END (UT)		START	PEAK	END (UT)	
1	C2.6																			
2	C2.0																			
2	C2.5																			
2	C2.9								10:26	10:31	10:44	1-								
2	C2.1																			
3	C2.0																			
8	C2.0																			
9	C2.3																			
12	C4.0	10:34	10:44	11:06	1+				10:32	10:44	11:23	2+	10:41	10:48	11:08	1+				
13	C2.1																			
13	M1.2	09:49	09:57	10:25	2				09:46	10:00	11:09	2+	09:56	10:00	10:18	1	09:50	09:57	10:30	2
13	C3.3	11:10	11:20	11:42	1+				11:09	11:17	12:11	2+	11:14	11:23	11:42	1+				
13	C5.1	12:46	12:56	13:25	2				12:44	12:58	14:01	2+	12:51	13:00	13:24	2	12:50	12:55	13:35	2
13	?																			
13	?																			
13	C8.0	15:04	15:15	15:50	2+				14:59	15:15	15:57	2+	15:11	15:21	15:35	1	15:05	15:15	15:40	2
14	C1.3																			
14	C2.1								12:50	12:56	13:10	1	12:55	12:59	13:22	1+				
14	C1.3																			
15	M1.0	09:31	09:41	10:10	2				09:28	09:39	10:28	2+	09:38	09:45	10:04	1+	09:33	09:40	10:05	1+
16	M2.7	12:07	12:17	13:20	2+				12:06	12:29	13:49	3	12:11	12:21	13:00	2+	12:06	12:18	13:15	2+
16	C5.9	14:46	14:56	15:22	2				14:45	14:56	15:23	2	14:56	14:58	15:10	1-	14:45	14:55	15:25	2
17	M1.3	08:59	09:05	09:30	1+				08:45	09:03	09:38	2+	09:04	09:06	09:18	1-	09:00	09:03	09:25	1
18	C2.7																			
18	M2.7	08:33	08:43	09:26	2+								08:40	08:49	09:23	2	08:35	08:45	09:15	2
18	C2.8	09:56	10:04	11:24	3				09:54	10:01	10:26	1+								
18	C3.6	12:59	13:12	13:44	2				12:58	13:13	13:40	2	13:02	13:16	13:42	2	12:58	13:15	13:35	2
26	M3.9																			
26	C5.3																			
26	C3.5																			
26	C2.3												12:56	12:59	13:17	1				
27	C2.3																			
27	C5.4												09:58	10:08	10:29	1+				
27	?																			
28	C4.1												11:31	11:41	12:05	2				