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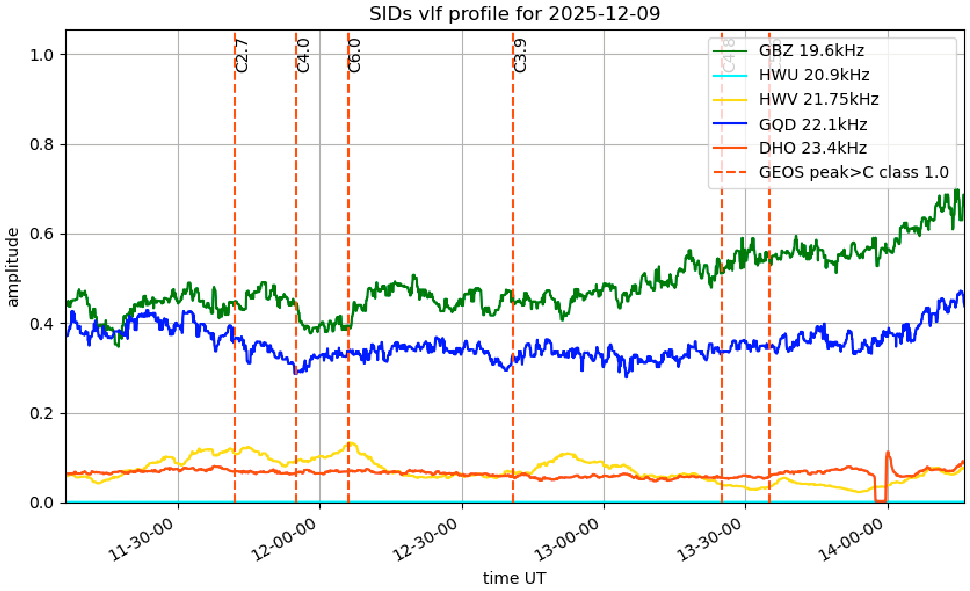
BAA Radio Astronomy Section. Director Paul Hearn.

RADIO SKY NEWS 2025 DECEMBER.

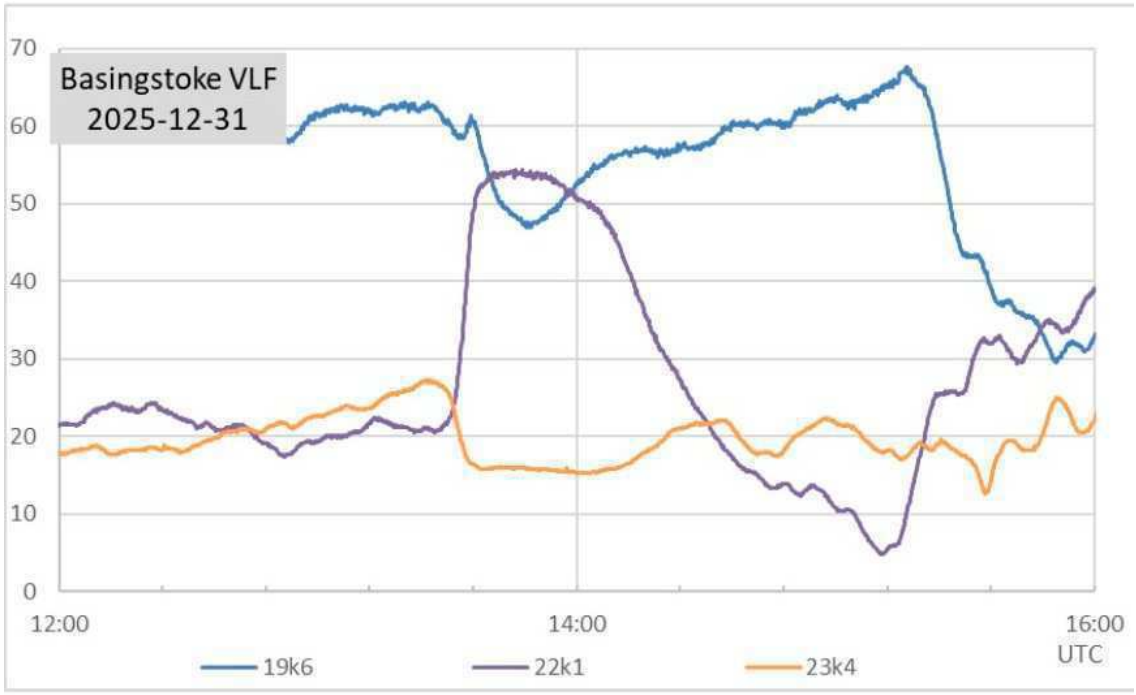
VLF SID OBSERVATIONS.

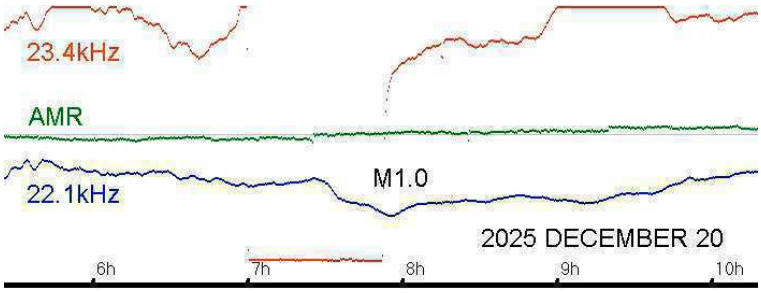
Solar flaring activity in December fell again, with just 20 recorded as SIDs. We did not record any X-flares this time, although there were some strong M-flares. In 2025 we recorded a total of 755 SIDs, compared with 2080 in 2024. The GOES satellite lists show two X-flares that were timed too early in the morning for European observers. There are plenty of smaller C-flares listed, but the low altitude of the sun makes them very difficult to record. Mark Prescott's recording from the 9th shows several C-flares hidden in the noise, particularly on the two British signals:



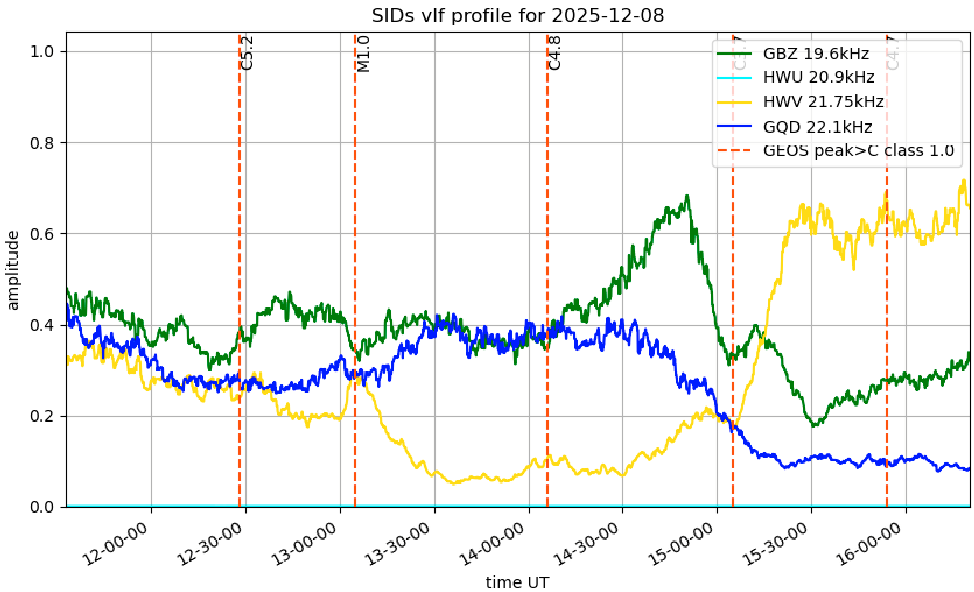
The C6.0 flare at 12:03UT would be expected to produce a strong SID during the summer months, but is lost in the noise on both 19.6kHz and 22.1kHz in December. There is a small SID visible on the French signal at 21.75kHz. 23.4kHz has remained very quiet, although my own recordings do show plenty of noise.

The strongest flare recorded was the M7.1 at 13:37UT on the 31st, recorded by all observers. Paul Hyde's recording shows a strong response on all three signals, 23.4kHz with a small spike and wave SID. The very early December sunset effects begin shortly after the end of the SID.



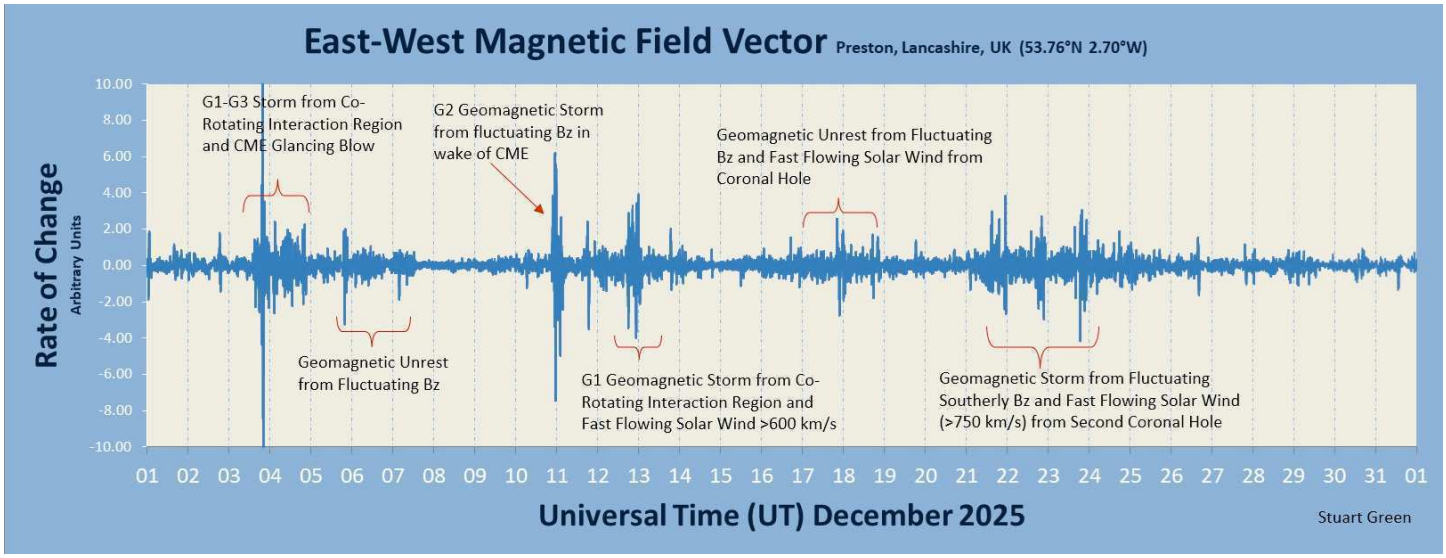


The M1.0 flare at 07:55UT on the 20th was quite early in the morning, but my recording does show a small dip at 22.1kHz. 23.4kHz was off-air at the time.

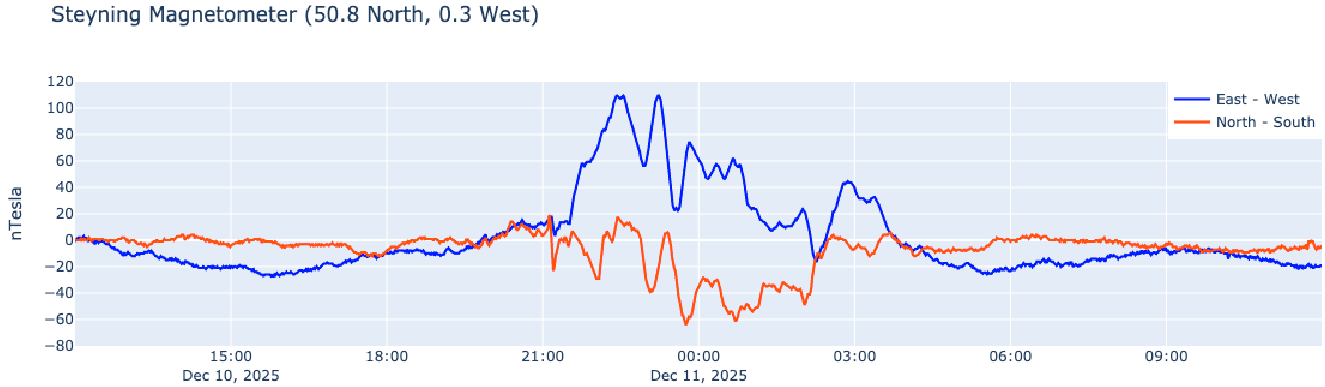


Mark Prescott's recording from the 8th shows a small response to the M1.0 flare at 13:05UT, 21.75kHz with the clearest SID. 19.6kHz has a mirror SID, while 22.1kHz appears to have about 15 minutes at minimum amplitude. General noise is again dominant right through the day.

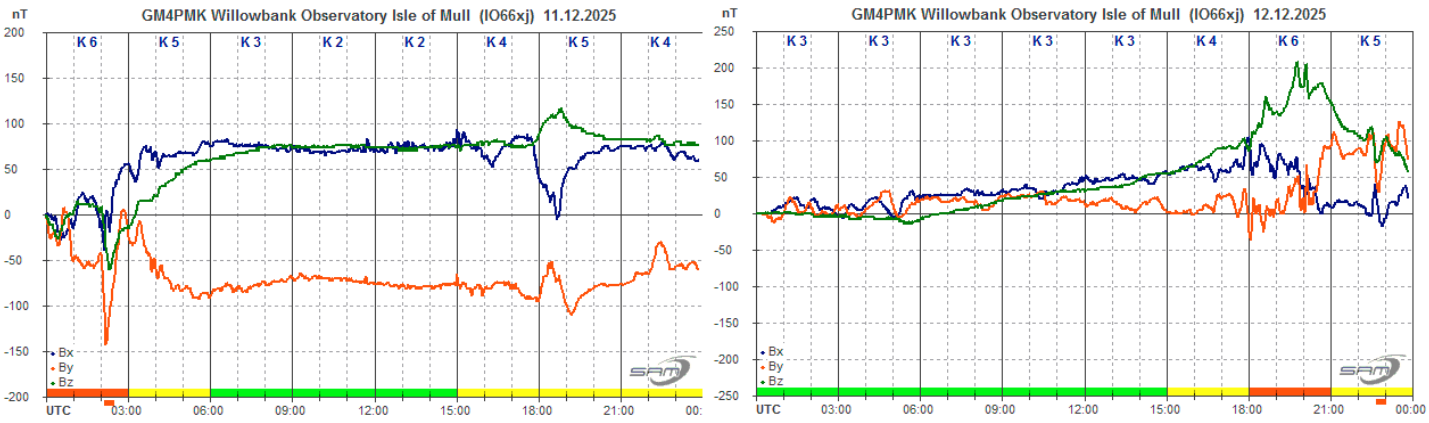
MAGNETIC OBSERVATIONS.

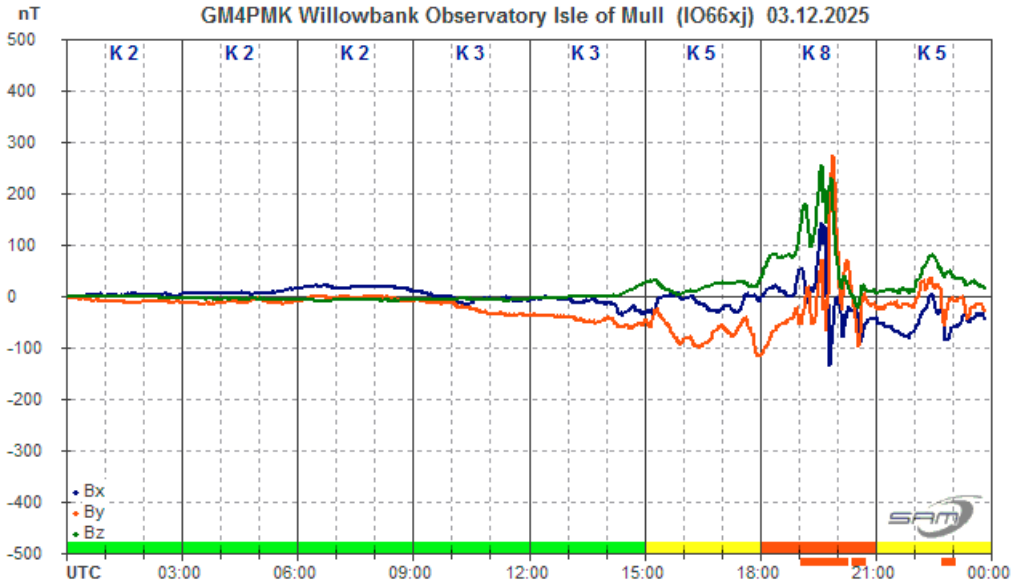


Stuart Green's summary of magnetic activity in December shows several periods of disturbance, a mixture of strong solar winds and CMEs. Coronal holes are becoming more evident as the solar cycle decays.

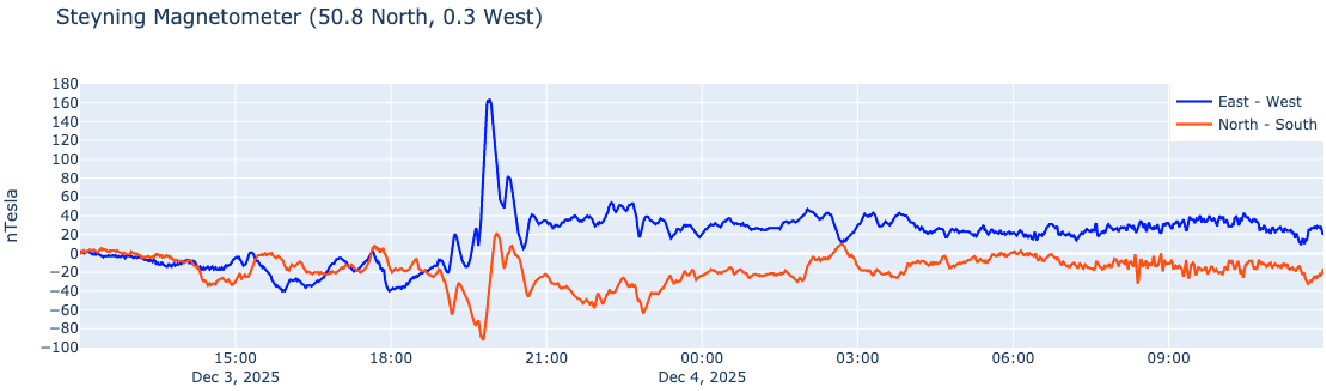


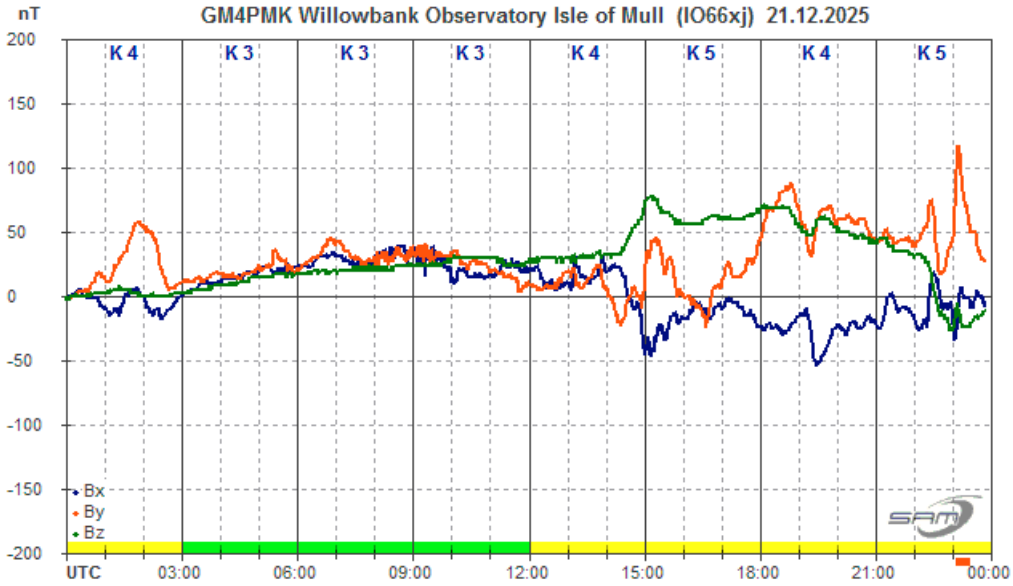
Nick Quinn's recording shows a strong disturbance overnight on the 10th–11th, with what appears to be an Impact just after 21:00UT. There were a number of CMEs recorded in the satellite data over the previous few days, reported as being not Earth-directed. There was also a turbulent solar wind present, continuing over the next few days, shown in Roger Blackwell's recording. Note the change of scale between the two charts.





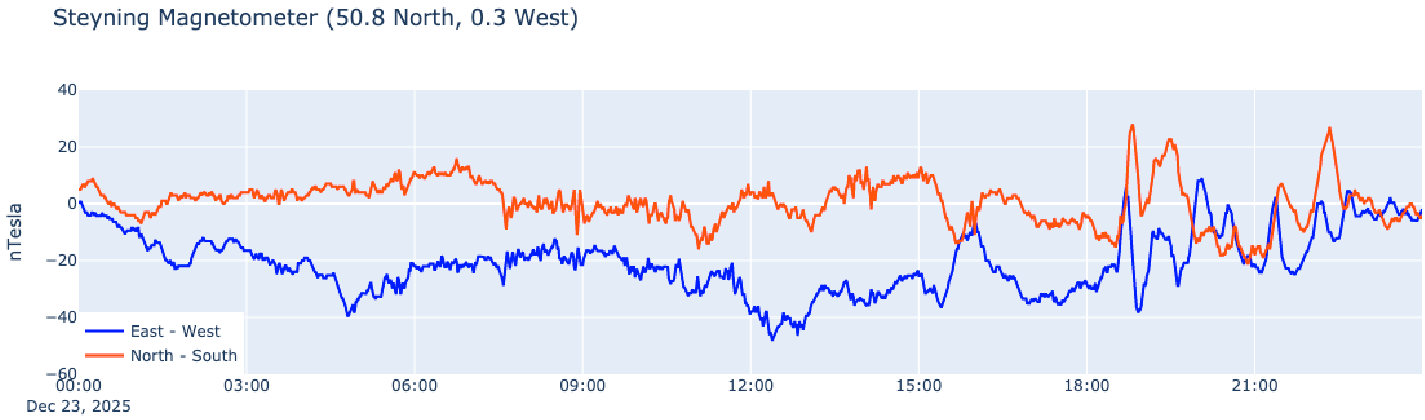
Similar conditions were present on the 3rd with a strong coronal hole wind stream and several CMEs, producing a strong disturbance in the evening of the 3rd. This was much stronger, +300/-120nT shown in Roger Blackwell's recording. This continued into the 4th, although with less amplitude and more rapid turbulence as seen in Nick Quinn's recording:



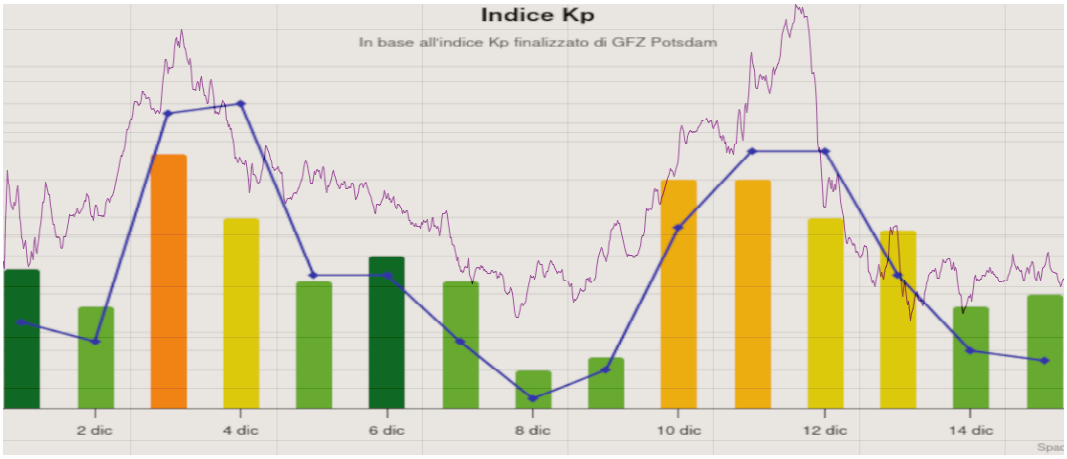


Roger Blackwell's recording from the 21st shows more coronal hole high speed solar wind turbulence.

This lasted for several days, Nick Quinn's recording showing more disturbance on the 23rd:



The disturbance faded out on the 25th, with just a few periods of mild activity.



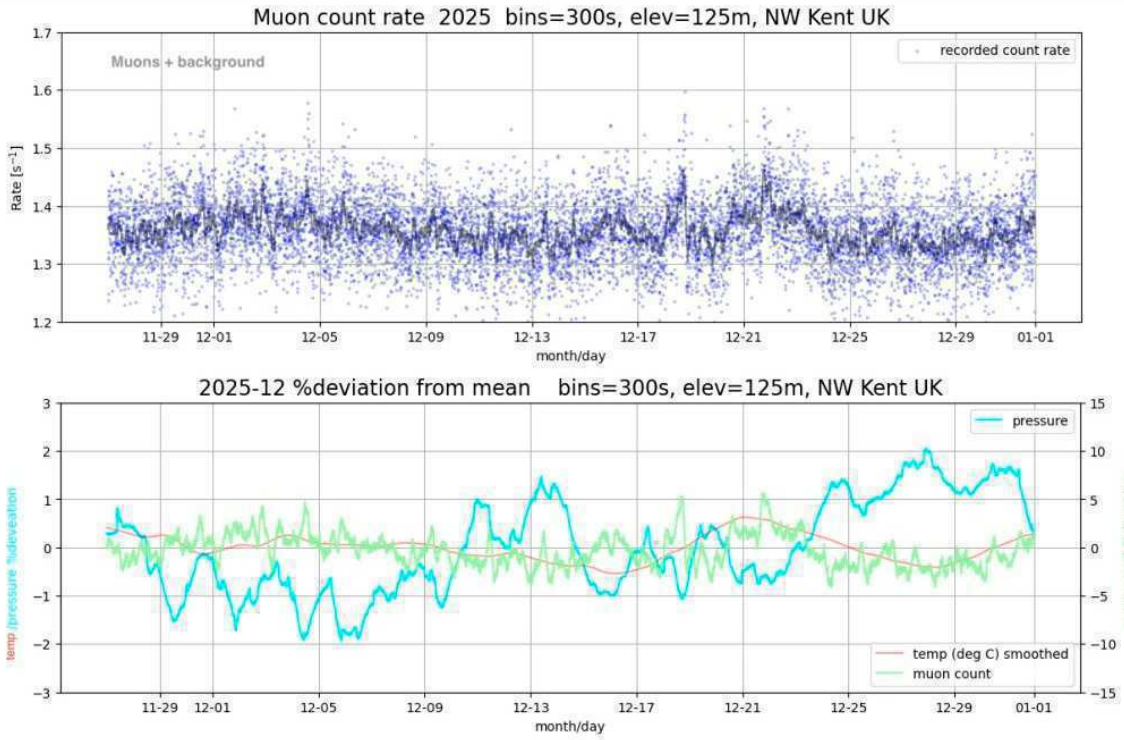
Thomas Mazzi has provided charts of the GPS errors during December. The top chart covers the full month, showing just a single peak exceeding a 1.4m error. The lower chart covers the first two weeks, and includes the Kp magnetic index showing how the GPS error peaks match the magnetic activity. Thomas uses his 'Share My Sky' project to create this data.

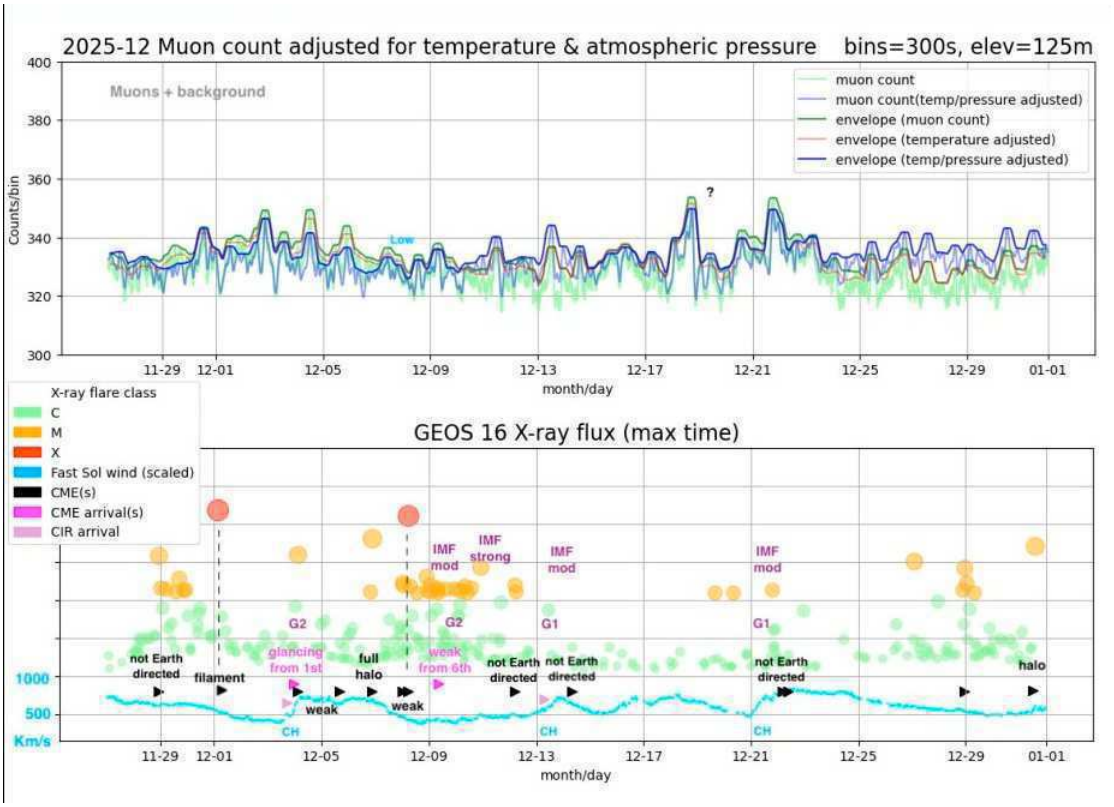
Magnetic observations received from Roger Blackwell, Stuart Green, Thomas Mazzi, Nick Quinn and John Cook.

SOLAR EMISSIONS

No observations of solar emissions have been received.

MUONS.

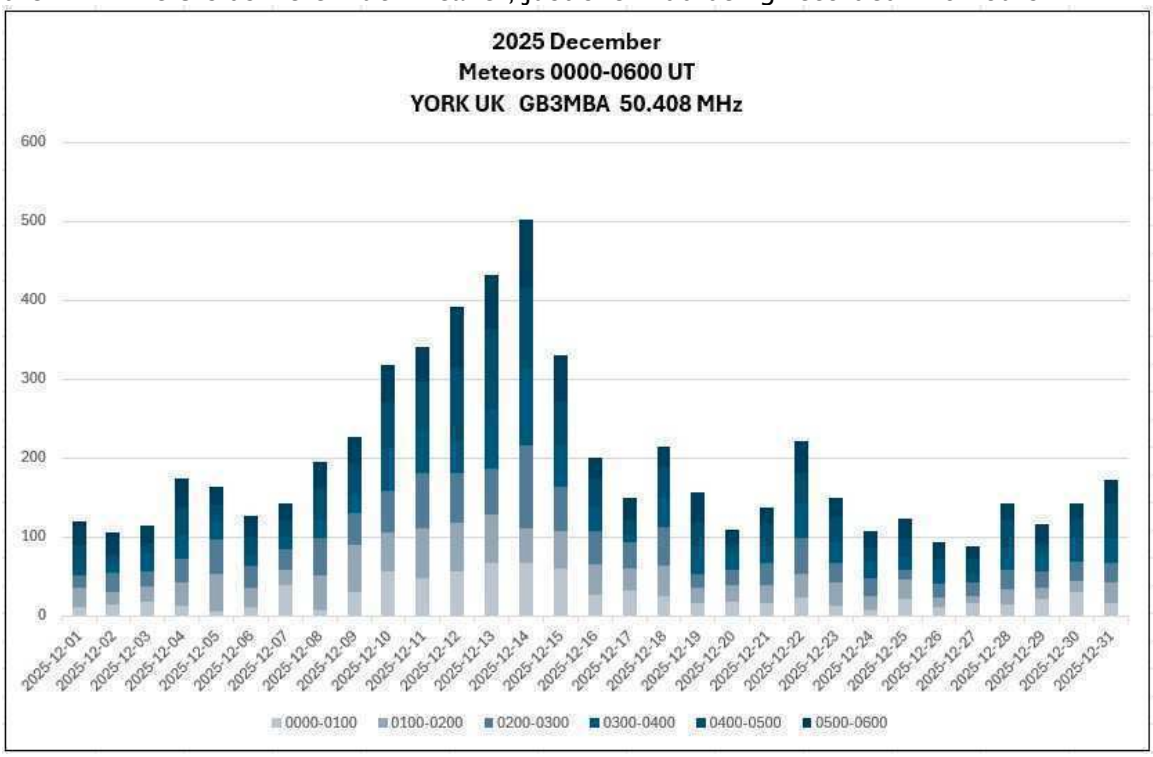


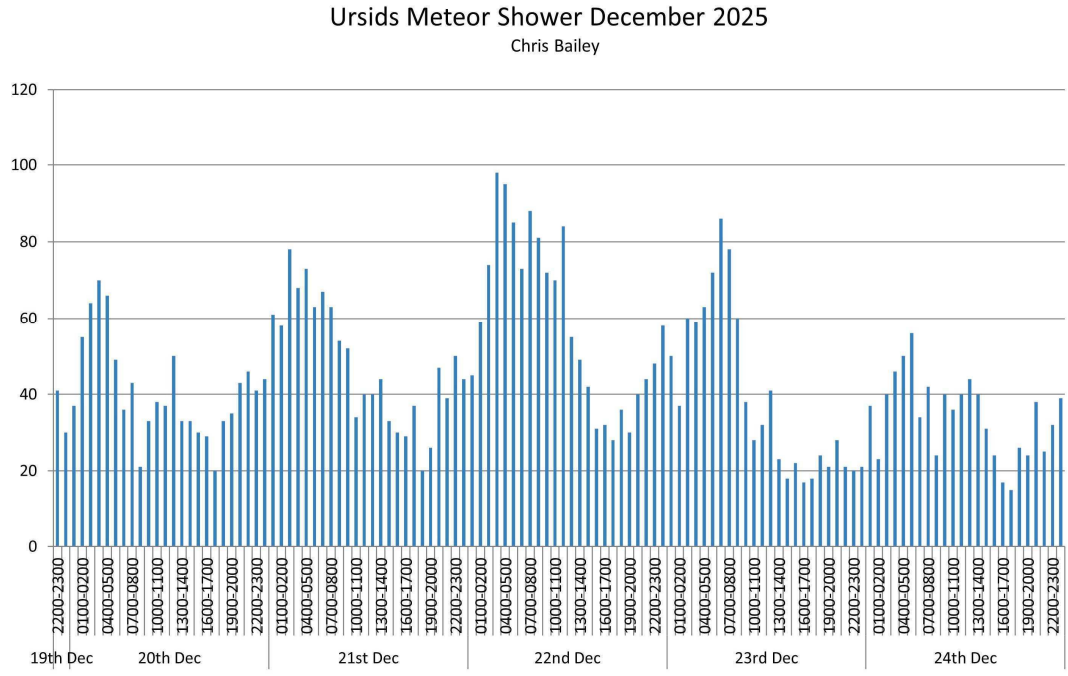


Mark Prescott's Muon charts show a small increase in flux over the first few days, probably due to the near-miss CMEs. There is a gentle fall through mid-month, with a strong peak on the 18th. This is probably due to the coronal hole fast solar wind seen in our magnetic data. The following peak on the 22nd also matches the magnetic disturbances from the turbulent solar wind.

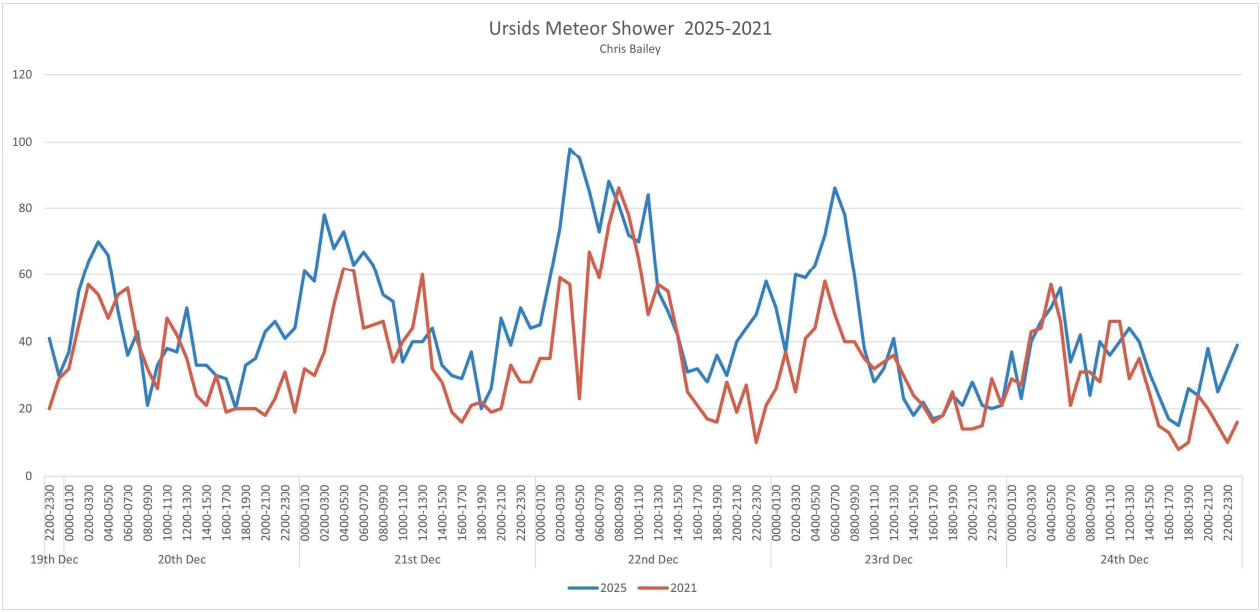
METEORS.

The Geminid and Ursid meteors reached their maximum in December. Colin Briden's recording shows a gentle increase in Geminid counts over a week, peaking on the 14th. There is a smaller peak on the 22nd, corresponding to the Ursid maximum. Geminids gave the highest counts, 500 being recorded over 6 hours on the 14th. The Ursids were much weaker, just over 200 being recorded in 6 hours.

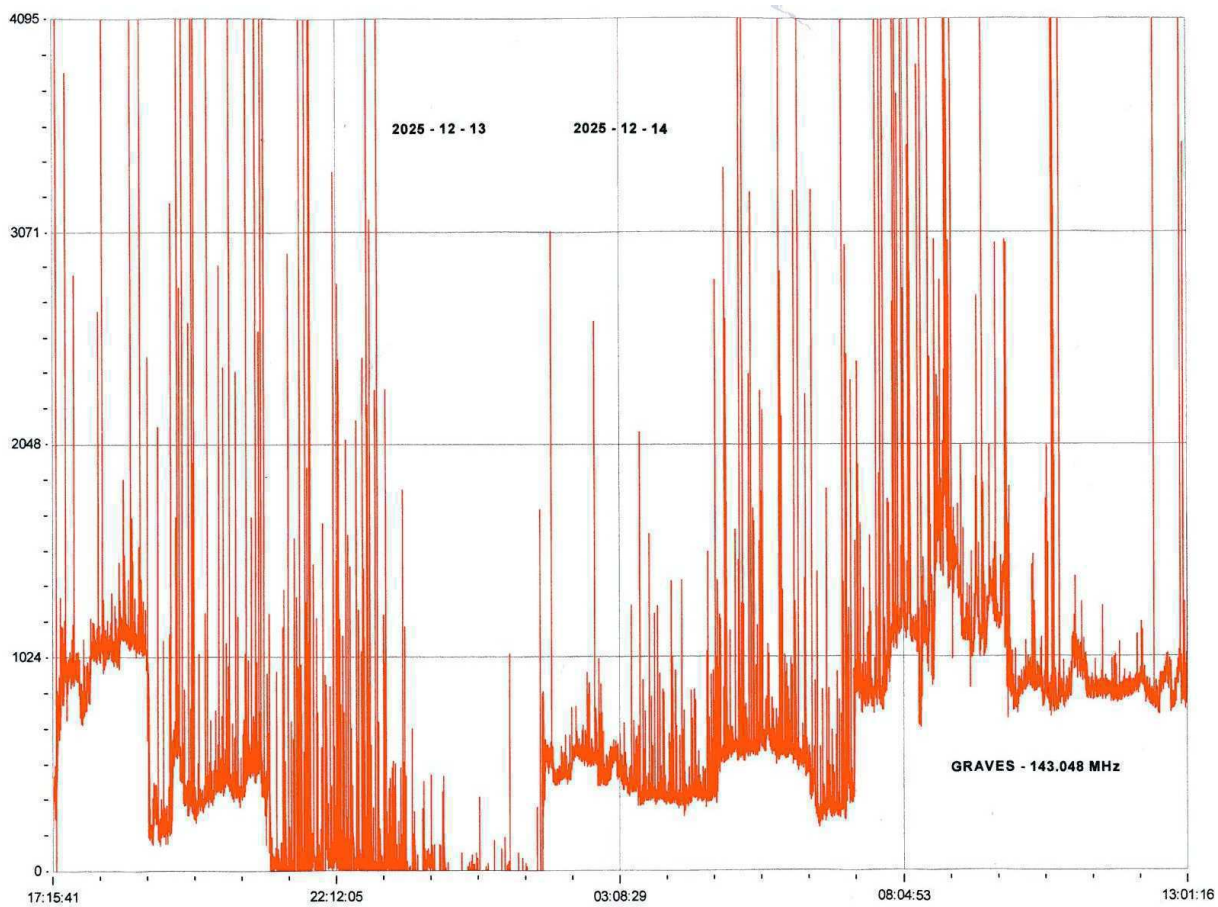




Chris Bailey's recording of the Ursids shows a similar peak in the morning of the 22nd, with smaller peaks on the 20th, 21st and 23rd. Chris has also compared Ursid activity over recent years:

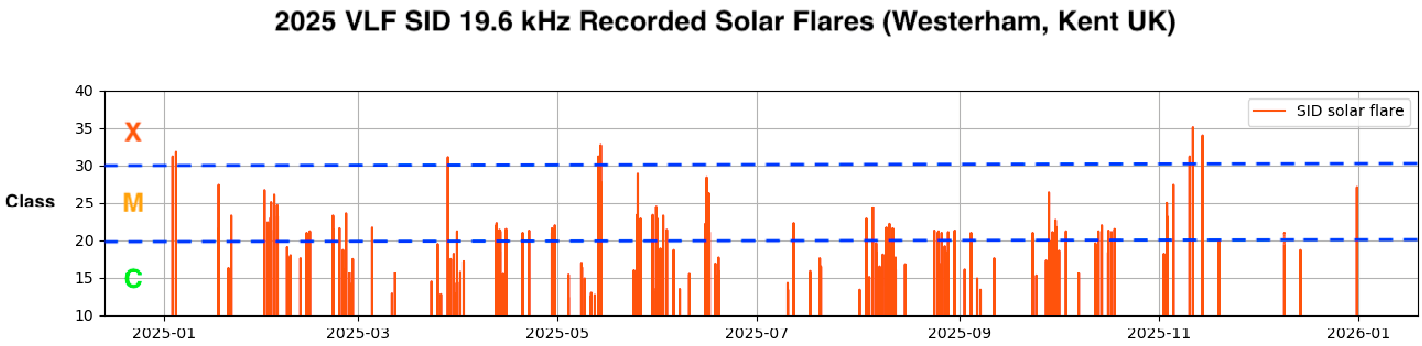


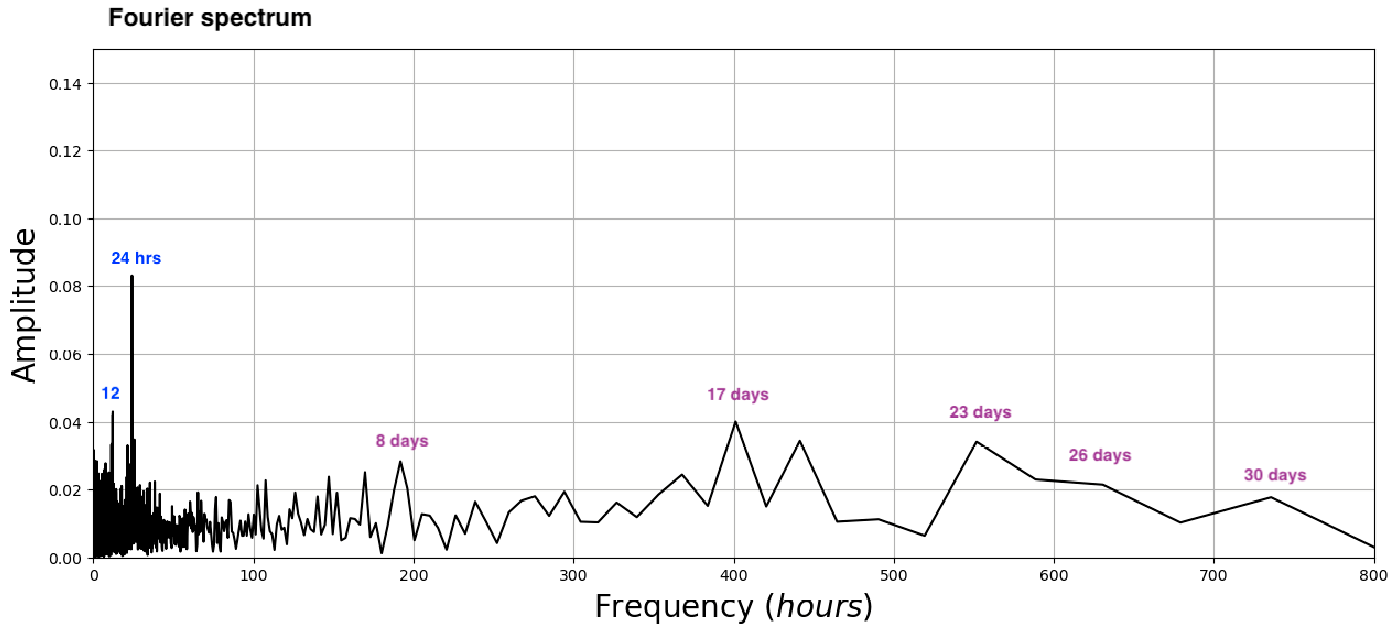
Activity this year looks to be slightly weaker than 2021, but otherwise very similar.



Colin Clements' recording covers the evening of the 13th and morning of the 14th. Two strong peaks are separated by a 2 hour break just after midnight. Different parts of the sky are being monitored, as Colin is using the GRAVES 143MHz signal in France.

SOLAR ACTIVITY STATISTICS.

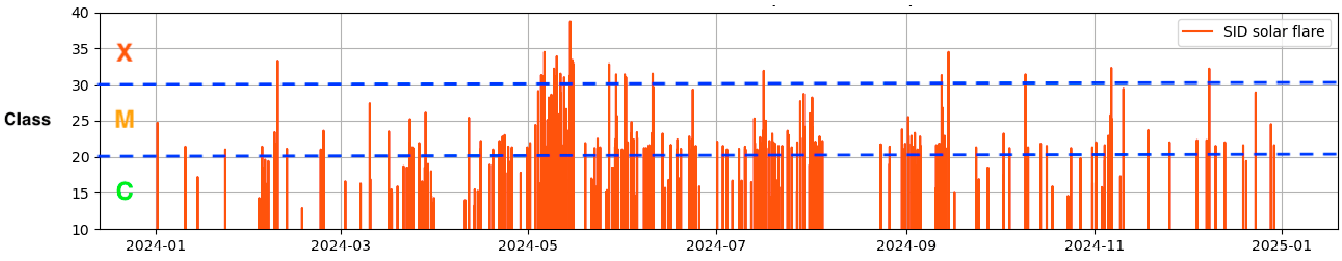


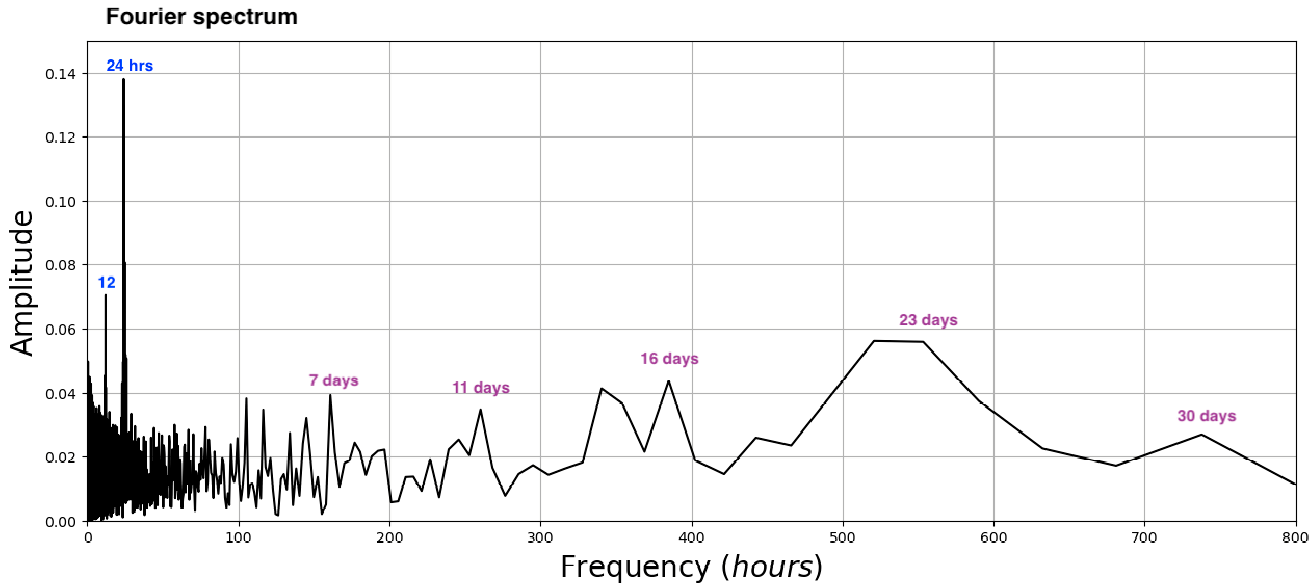


Mark Prescott has run some statistics on the Sun's flaring activity in 2025. The Fourier spectrum is very interesting, showing a variety of peaks. Solar rotation is not an easy thing to measure, as different latitude regions rotate with different periods (around 27 to 30 days). During the sunspot cycle the active regions tend to migrate to lower latitudes, so their periods will also change. The strong 12 and 24 hour peaks in the spectrum match the semi-diurnal and diurnal periods, and so are Earth related rather than solar. The 23, 26 and 30 day peaks are probably related to the solar rotation, active areas often surviving through the far side of the Sun, reappearing again on the next rotation. The remaining peaks from 8 to 18 days perhaps relate more to the less predictable repeat flaring of active areas that do not last for a full rotation. Peter Meadows has written a paper for the BAA journal investigating this differential rotation, I do not know which issue will include the paper, but look forward to reading it.

Mark has also done the same analysis for the 2024 data, chart shown on the next page. Overall activity was of course much greater, but the Fourier transform shows a similar shape. The short periods are still present, with a new peak at 11 days. The peak at 23 days is much wider, perhaps indicating the wider latitude coverage as the cycle peak starts to decay. All of this data was taken using the 19.6kHz signal from Skelton.

2024 VLF SID 19.6 kHz Recorded Solar Flares (Westerham, Kent UK)



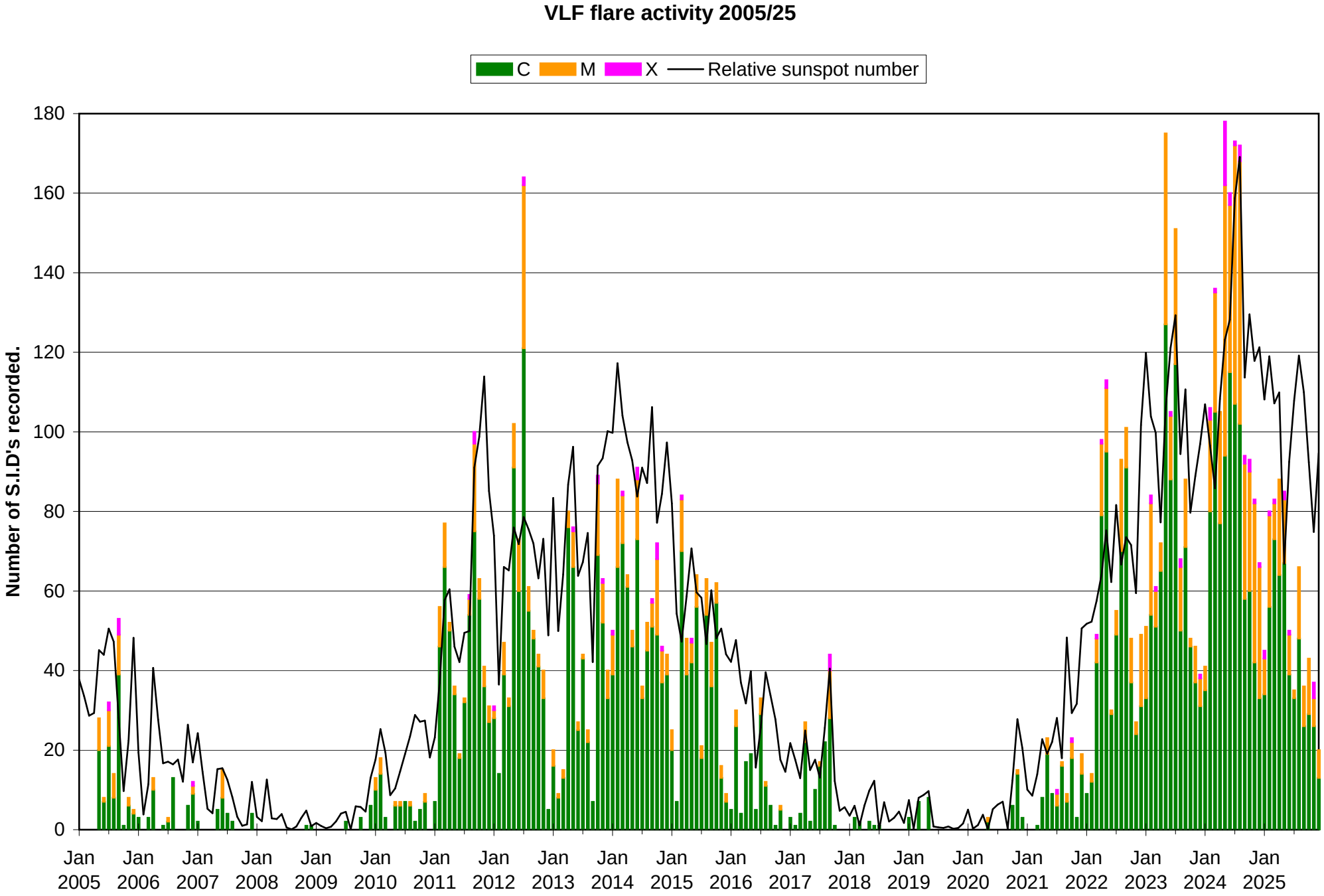


BAA Radio Astronomy Section. **2025 DECEMBER.**

	Xray class	Observers	John Cook (23.4kHz/*22.1kHz*) Tuned radio frequency receiver, 0.58m frame aerial.				Roberto Battaiola (20.3kHz) Modified AAVSO receiver.				Paul Hyde (22.1kHz/*24kHz*) Spectrum Lab / PC 1.5m frame aerial.				Mark Edwards (24.0/*19.6kHz*) Spectrum Lab / PC 2m loop aerial.				Colin Clements (23.4kHz/*21.75kHz*) Tuned Radio Frequency receivers, 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)
1	C6.0	1					09:47	10:09	11:13	3											
3	C5.4	1					12:41	12:52	13:01	1											
7	C7.5	2					11:53	12:02	12:34	2	11:59	12:05	12:11	1-							
8	**M1.0**	2	12:59	13:01	13:15	1-															
9	C6.0	1																			
9	C5.6	1	*13:28*	*13:29*	*13:34*	*1-*															
9	**M1.5**	2					15:07	15:14	15:21	1-					15:10	15:16	15:33	1			
10	**M1.0**	1	09:50	09:56	10:08	1-															
10	C4.1	1	10:26	10:29	10:32	1-															
10	**M1.6**	3									13:40	13:45	14:08	1+	13:39	13:46	?	-			
10	?	1													13:58	14:01	14:08	1-			
11	C4.5	1													15:19	15:26	15:38	1			
11	C9.7	1													15:44	15:48	16:00	1-			
12	C2.8	1													14:43	14:47	14:58	1-			
13	C8.7	1																			
13	?	1									11:24	11:37	11:52	1+							
19	**M1.0**	2	*15:21*	*15:58*	*16:04*	*2*									15:42	15:49	15:55	1-			
20	**M1.0**	1	*07:48*	*07:55*	*08:06*	*1-*															
26	C6.9	1	09:12	09:16	09:22	1-															
29	C4.3	1	08:15	08:18	08:24	1-															
29	C3.8	1	09:46	09:48	09:52	1-															
31	**M7.1**	7	13:29	13:50	14:55	3	13:20	13:36	14:49	3	13:29	13:37	15:04	3	*13:32*	*13:50*	*14:23*	*2+*			

BAA Radio Astronomy Section. **2025 DECEMBER.**

	Xray class		Steve Parkinson (Various)				Andrew Thomas (18.3kHz)				Phil Rourke (23.4kHz)				Mark Prescott (19.6kHz/*21.75kHz*)				John Elliott (18.3kHz)			
			Tuned radio frequency receiver, frame aerials.				Tuned radio frequency receiver, 0.6m frame aerial.				Spectrum Lab, 0.6m frame aerial.				SpectrumLab/Starbase, Active mini-whip 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)	
1	C6.0																					
3	C5.4																					
7	C7.5																					
8	**M1.0**														13:02	13:06	13:14	1-				
9	C6.0														*12:03*	*12:07*	*?*	-				
9	C5.6																					
9	**M1.5**																					
10	**M1.0**																					
10	C4.1																					
10	**M1.6**																		13:37	13:45	14:10	2
10	?																					
11	C4.5																					
11	C9.7																					
12	C2.8																					
13	C8.7														10:52	10:54	?	-				
13	?																					
19	**M1.0**																					
20	**M1.0**																					
26	C6.9																					
29	C4.3																					
29	C3.8																					
31	**M7.1**		13:31	13:50	14:40	2+									13:34	13:50	14:19	2	13:30	13:50	14:28	2+


VLF flare activity 2005/25
C
M
X
Relative sunspot number
Number of S.I.D's recorded.
180
160
140
120
100
80
60
40
20
0
Jan 2005
Jan 2006
Jan 2007
Jan 2008
Jan 2009
Jan 2010
Jan 2011
Jan 2012
Jan 2013
Jan 2014
Jan 2015
Jan 2016
Jan 2017
Jan 2018
Jan 2019
Jan 2020
Jan 2021
Jan 2022
Jan 2023
Jan 2024
Jan 2025

BAA Radio Astronomy Section.

BARTELS DIAGRAM

ROTATION | KEY: DISTURBED. ACTIVE SFE | B, C, M, X = FLARE MAGNITUDE. | Synodic rotation start (carrington's).

ROTATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
2582	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	22
	F			C			C	M				C				C			MMM	CMCM	MMC		CC	CCC	M	C	C
2583	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
	F	CC	C		CCC	CM		CM	CCCM	C						CC	MCCM	MM	MCMM	MC	MCMC	MC	CCC	CM	C		MC
2584	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
	F	MMC	CC	CC	CMCM	C	CCC	MCM	CMCC		C	CC			C		C	C	C	CC	CM	MMMM	MCCM	MMXM	MMMM	CCCM	CCM
2585	15	16	17	18	19	20	21	22	23	24	25	26	27	28	1	2	3	4	5	6	7	8	9	10	11	12	13
	F	CCCC	C	CX	C	CC	CMCC	MCCM	CCCM	CMCC	CCM	CCMM	CC	CC		CC	CCCC	MCCX	CMMC	CCMC	MCCC	C	MC	CCC	CCCC	C		
2586	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
	F	C		C	CCCM	C	CCC	C	C		C		CC	CCC	CC	MC	M	CC					CCC	MC		CC	CCCC
2587	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	6
	F	MCCC	MC	CCC	CCCC	CCMC	CCCC	C	CC	CCC	CCCC	M	CC		CC		C	M	CC	CCCC	CCM	CCMC	CCCC	MMMM	MCCC	CMM	CC
2588	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	2
	F	C	CCCM	MCMM	MCCC	MCCM	CCCC	CCCC	C	C	CCCM	CCCC	MMMM	MCCM	MMMM	CCCM	MMCC	CMMC	MCCM	CCMC	CCC	CCC	MC	C	MMMC	CMCM	CCCC	CC
2589	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	29
	F	CC	CCCC	C	CCCC	CMCC	CC	CM	C		CCCC	CCCC	CC	CC	MCMM	CC	M	MC	CCMX	CMMC	CMCC	C	CCMC	CCCC	CCMC	CMCC	MCC	CCCM
2590	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	26
	F	CCCC	CCCC	CCCC	MCCC	MC	CCCM	CCM	MC	C	CCC	CCCC	MMMM	MMCC	CCCM	MCCC	MMMC	MCMM	CCC	MMMM	CMCM	C	CC	CCC	C	CCCM	CMCM	
2591	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
	F	CMCC	CMCC	CCCM	MC	CMCC	MMMM	MMMM	CMCC	CC	MMCX	CM	CMMX	MC	C	CCCC	CCCC	C		C	CC	CCC		C	CC	CC		
2592	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
	F	CCC	C	C	C			C			MC	MCC	CC	MCC	CCCC	CCM	CCC	C	C	CCCM	MCCC	C	CCM	C	CC	C	C
2593	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	F	MCCC	CMCC	M	CCMM	CCCC	CCMC	C	CC		MCC	CCC	CCCM	CCCC	CCM	CCCC	C	C	CC	CC	CCC	CMCC	CC			C	C
2594	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
	F	CCC			C	C				CC	CC			CCCC		MCM	CCM			MCM	C		C	C	C	CCC	
2595	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9
	F	C	CCCC	C			CM	CC	MCCC	CCCC		CCMC	MC		C		C		CC				CCC	C			MCM
2596	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	5
	F	CCC	CCCC	CC	C	MMX	MCCM	CC	C	C					MM						C	CCCC	M				
2597	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
	F	C		CC		CM	CCM	C		C			C		CCC	C	CC	CMMM	CCC	CCCC			CCC	CCC	C	C	CC
2598	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
	F	CCCC	CCCC	MMMM	CC	CC	CCM	MMMM	CXM	C	C	CMCM	CC	MCCC	CCCM	XCC	C	C	CC	CC	CCCC	XCCM	CMMM	MMMM	CM	C	C	CC
2599	29	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
	F		CCC		C	CC	C	CCCC	C		CMCC	CC	CCCC		MCC		CCMC	CCCC	CCCC	CCCC	MCCC	CC	CCCM	MMMM	MMMM	MCCC	MMMM
2600	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
	F	MCCC	MMMX	CCCC	CCCC	CCCC				C				CCCC	CCCM	CCCC	MCCC	CCCC	CCCC	MMMM	CCCM	CCCC	CMCC	MCCC	CCCC	MMM	MMMM
2601	23	24	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
	F	MCCM	CCMC	CMCM	CC	MC	CC	CCC	CCMM	MC	CCCM	CMCC	MMCM	XMXM	MXMC	MMMM	XMMX	MXMX	XMMM	MXMM	MMMX	XCXM	CMMX	M	CCC		MM
2602	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
	F		CCCM	CM	CMMM	MCCC	C	CCCC	XCC	CCCC	MMXM	CM	CMCX	XCXM	CMCC	MMMM	MMCC	MMCC	CCMC	CMCM	MMMC	MMCM	MMXM	CC	CC	CCMC	CCCC	MCCC
2603	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
	F	CCCC	MCMM	CMMC	MCCC	CMCC	CCCC	MMCC	MMMC	MMCM	MC	C	CC	CC	CC		MC		MCC	CCMM	CCCC	CCCC	CCMM	CMCC	CCC		
2604	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
	F	MMMM	MCCM	MMCC	MCXM	MMMM	MMCC	CMCM	MCCM	MCCM	MCMC	CM	MCMC	CCM	MCC	MMMM	MMMM	MMMM	MMMM	MMMM		MMMM	MMMM	MMMM	MMMM	MMXX	CCCC	CCMM	MMMX
2605	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
	F	MMMM	CCMM	MCCM	MC	CCCM	XMMC	CCCC	CMC	MM	MCM	MCCC	CCM	MCCC	CCMC	CCMM	CCMM	CCCC	CMC	CMCC	C	CCC	CMCC	MCMC	MCCM	CMCC	MCCM	CCMC
2606	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
	F	MMMC	CCCC	MCCC	M	MMMM	CMC	MMMM	MXMM	MMMM	MCX	CC	C	C	C		C	C		C	M	C	C	C	CC	C	MMM	C	CCC
2607	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
	F	CCMC	MXM	MC	MMCC	CMM	C	MCC	CCX	CMMC	CCMM	C		MC	MCCM	MCM	C	CCC	MCM	C		CCC	CCCC	MC	MCC	XMMM	CCCC	CCMM
2608	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
	F	CM	CC	CMMM	MCMM	MM	MCMM	MMMM	MMMM	MMMM	MMMX	CCCC	CCCC	M	C	C	CC	CCC	M		CC	MMMM			CC	M	M	
2609	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
	F	MC	CC	CCCM			CC	CC	C		MC	MMC	MCC	CCM	XCCM	C	MCM	MCCM	CCM	MCM			CCCC			MCCM	CCM	
2610	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
	F	CM	M	MCMC	C		M	MM	MMMM	MMMM		C	C	X	CCX	MM								CC			MMMC
2611	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
	F	CCCC	CC	CC	M	MC	CC	CCC		CC	M	CC		CC	CCMC	CCCM	MMMM	MCCM	CMMC	CCCC	MCCC	MCC	MCCC	C	CC	CC	C	CMCC
2612	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	1	2	3	4	5	6	7	8	9	10	11	12
	F	MC	C	C	CCMC		CC	C	CMMC	C	MMMX	MCC	M	CCC	C	CCC	CCCC	C	CC	CCC	M			CC			MC	CCCC
2613	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
	F	CC	CCCC	CC	C	CCCC	C	CC	C	M	C	CCC	CC	CC	MCCC	CCC	CXMM	CCCM	CMCC	MCCC	CCCC	CCC	CCC	C	C	CCCC		
2614	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
	F	CCC	CCC	CCCM	MMMM	MMMM	MMCC	CMCM	C	CCC		C	CMC	M	M	C	CC			C		MMMC	CMC			CCCC	CCCC	C
2615	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
	F	CCCC	CCCC	CCCC	C	CC	CCCC	CC	CX	MXMM	CM			M	CCCC	C			CCCM	MCMM	CMM	C	CCCC	C	MCCM	MMCM	CC
2616	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
	F	MC	M		CC	CC	CC	C		C	CCCC	C	C	CCM	MMCM	CCMM	CX	CCCC	CCCC	CM		C					
2617	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
	F				C							CCCC	CC	MMCC		CCC			CC	C	C	CCCC		CC	C	CCC	
2618	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
	F	C	C			CC		C	C	CMC	C	M	CCCM	CMC	CCC	CCMM	CM	CCMM	CCCC	C		CCC					
2619	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
	F		C	CM	MCMM	CM	CC	CMM	C	CMM			C	M		C	CCCC				C					C	
2620	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	13	14
	F	C				C	M	MC	C		MCC	MCCC	MMMC	CMM	CM	C	CCM		C			M			CC	CMCM	CCCM	
2621	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
	F	MCCM	CCCM	CMMM	MCM	CC	C											C	C	MMM	C	CMC	CCC	CCC	C	X	CXCC
2622	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	6	7
	F	MCX		C	X		M		C	C	C	C						CC	CM	CC							C
2623	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
	F	M	CCM	MCM	CC	C	C					M	M									CC		M			

2582: 2022 December; 2023 January
2583: 2023 January
2584: 2023 February
2585: 2023 March
2586: 2023 April
2587: 2023 May
2588: 2023 June
2589: 2023 July
2590: 2023 August
2591: 2023 September
2592: 2023 October
2593: 2023 November
2594: 2023 December
2595: 2024 January
2596: 2024 February
2597: 2024 March
2598: 2024 April
2599: 2024 May
2600: 2024 June
2601: 2024 July
2602: 2024 August
2603: 2024 September
2604: 2024 October
2605: 2024 November
2606: 2024 December
2607: 2025 January
2608: 2025 February
2609: 2025 March
2610: 2025 April
2611: 2025 May
2612: 2025 June
2613: 2025 July
2614: 2025 August
2615: 2025 September
2616: 2025 October
2617: 2025 November
2618: 2025 December
2619: 2026 January