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The British Astronomical Association

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Registered Charity No. 210769

Burlington House, Piccadilly, London, W1J 0DU

Telephone: 020 7734 4145

Fax No.: 020 7439 4629

Email: office@britastro.org

Website: www.britastro.org

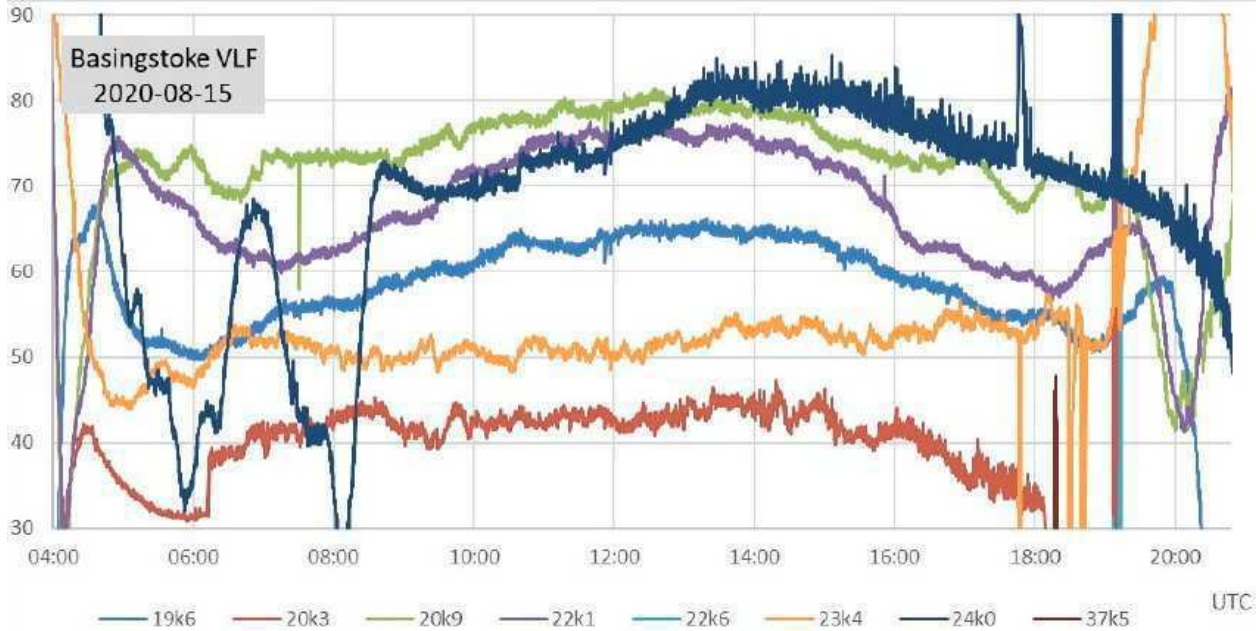


Please send all reports and observations to jacook@jacook.plus.com

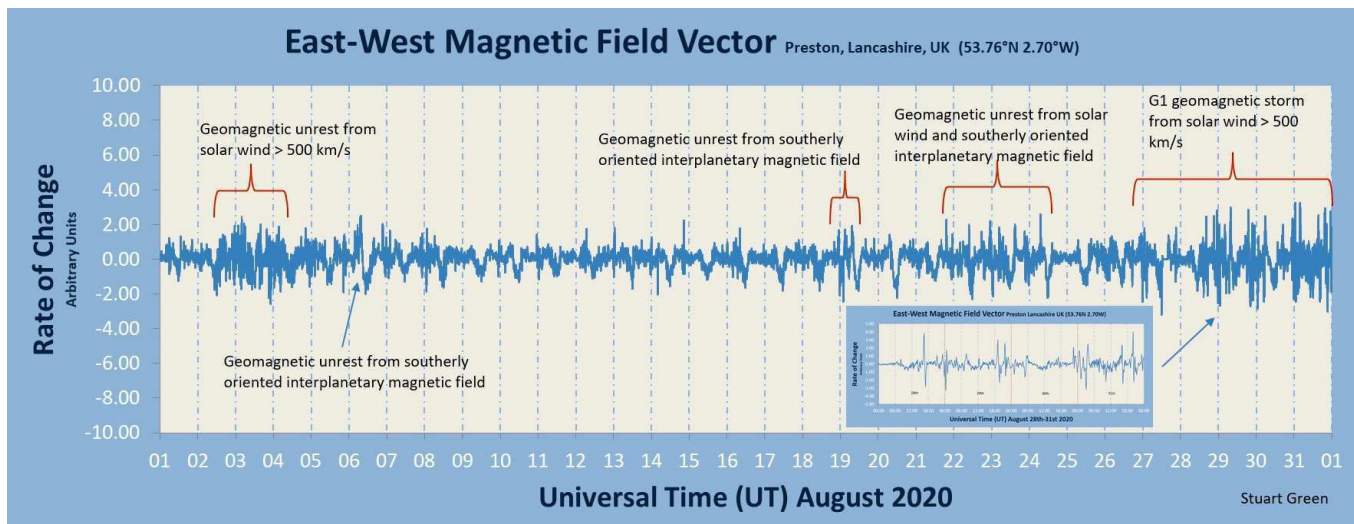
BAA Radio Astronomy Section.

2020 AUGUST.

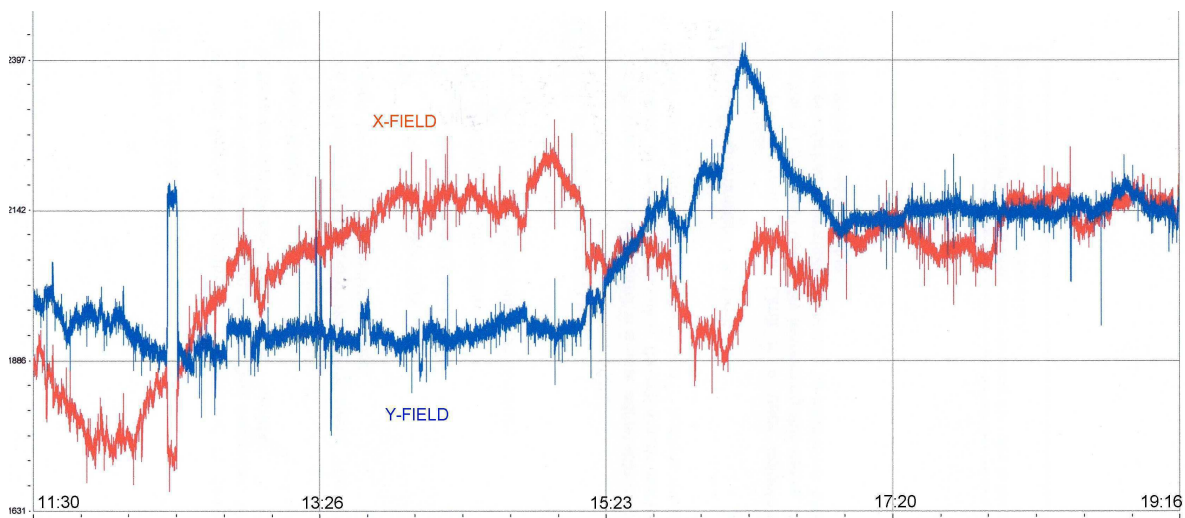
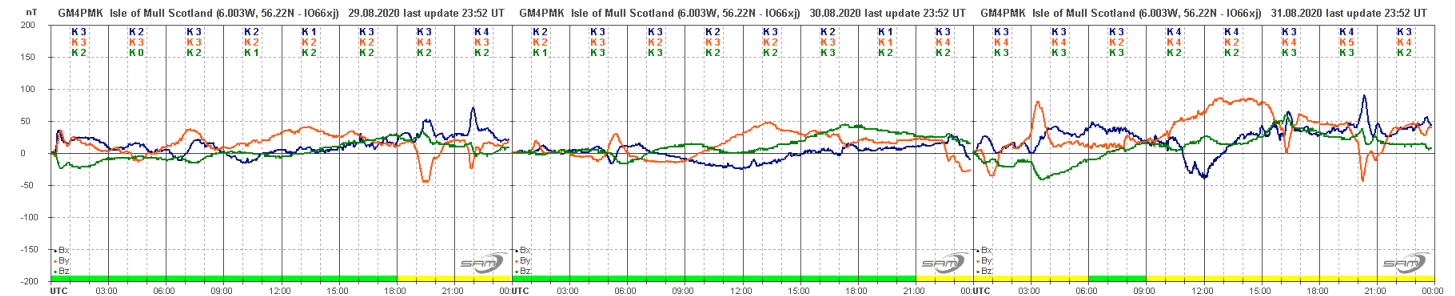
An active region from the new solar cycle was present during the first half of the month, producing a number of small B-class flares as well as a C1.5 flare (03:49UT, 8th) and a C2.0 flare (06:47, 15th). Neither of these was well timed for detection as SIDs, and so our record for the month is again blank. Paul Hyde's recording from the 15th shows a generally noisy background throughout the day:



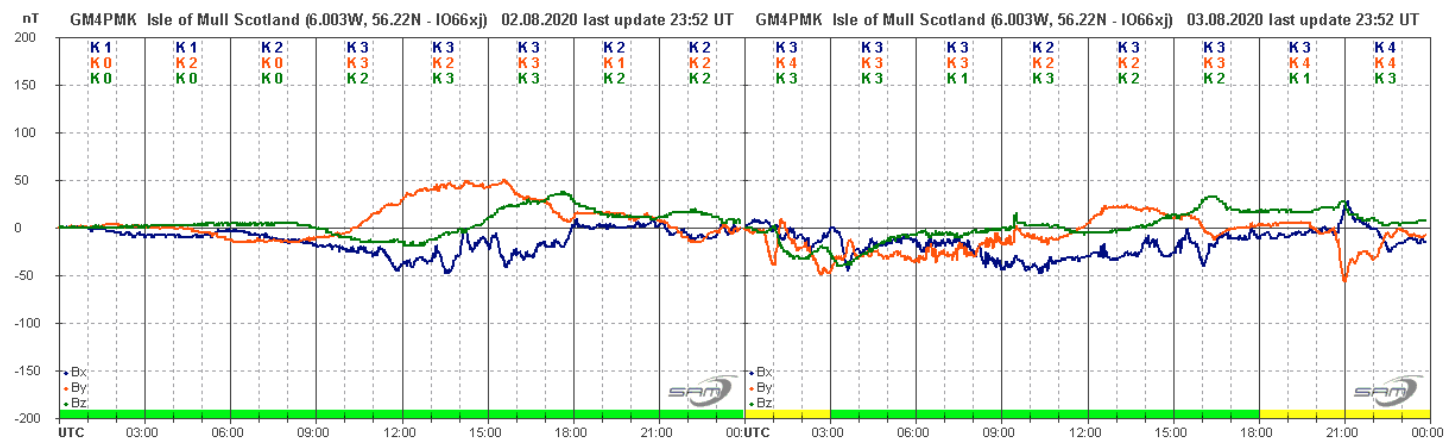
MAGNETIC OBSERVATIONS.



The month's activity chart from Stuart Green shows a distinct storm developing in the last few days of August, the inset chart showing detail from the 28th to 31st. This shows a strong magnetic storm produced by a high speed solar wind from a fairly large northern coronal hole. Moving towards the autumn equinox, the Sun–Earth alignment becomes optimum for stronger magnetic disturbances, as well as good auroral displays. Roger Blackwell's recording shows the storm over the last three days of August:

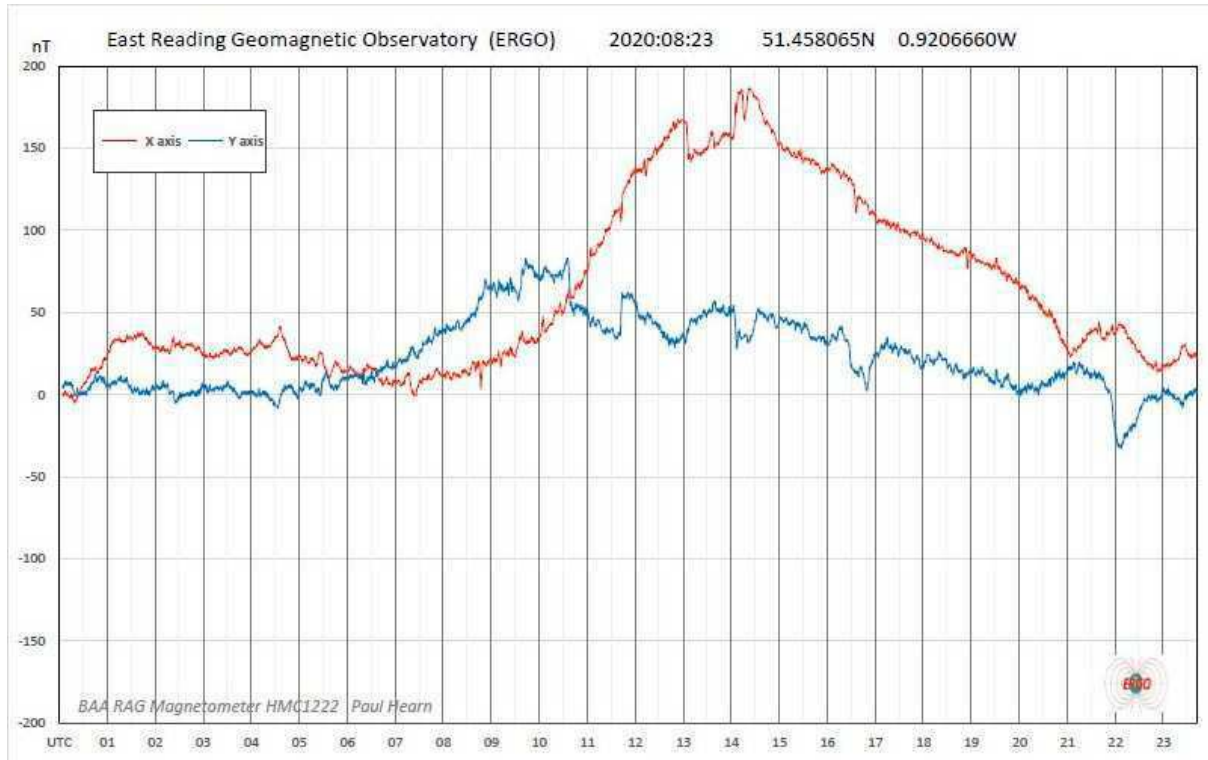


Detail of the stronger activity in the afternoon of 31st is shown recorded by Colin Clements. The large pulse around 12:26 is due to local interference.



This recording from Roger Blackwell shows a milder disturbance from the same coronal hole on the 2nd and 3rd of August. Previous appearances of this coronal hole were on June 7th – 9th, and July 4th and 5th, as shown by the Bartels diagram. Its effects have become stronger with each appearance so far, its next appearance due on September 26th or 27th.

Smaller disturbances on the 18th and 23rd do not seem to be related to specific solar events, with gently increasing solar wind speeds shown in the space weather reports. The disturbance on the 23rd is shown recorded by Paul Hearn.



The most noticeable feature is the larger than normal magnitude of the diurnal variation, especially in the X-axis (red trace).

2546	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	
2547	F	2230	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
2548	F	2231	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
2549	F	2032	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
2550	F	2033	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
2551	F	2234	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
2552	F	2235	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	2	3

Magnetic observations received from Roger Blackwell, Colin Clements, Stuart Green, Paul Hearn, John Cook.

