



Month: October 2023

- **NEWS FROM THE SOLAR SECTION**



On 25 October a Solar Observation webinar was presented to the Pretoria branch of ASSA. 17 Persons from 4 different countries participated on the online event. One person from Japan, one person from the UK, one person from Spain and the rest from South Africa. A PowerPoint presentation about Solar observations was presented by Jacques van Delft and Andrew Devey presented some good H-Alpha images and videos he took with his equipment.

• **SUNSPOT OBSERVATIONS**

Day	Time	Groups	Spots	W no.	North Groups	South groups	North spots	South spots
1	1345	7	26	96	5	2	15	11
2				0				
3	1110	6	34	94	4	2	16	18
4				0				
5	841	8	31	111	4	4	22	9
6								
7	908	7	40	110	5	2	34	6
8				0				
9				0				
10				0				
11				0				
12				0				
13				0				
14	1110	5	20	70	3	2	13	7
15	1115	5	18	68	3	2	12	6
16	1245	5	15	65	3	2	13	2
17	1330	3	17	47	2	1	16	1
18	1340	3	8	38	2	1	7	1
19	1300	5	13	63	4	1	11	2
20	1245	4	12	52	3	1	9	3
21	131	3	7	37	1	2	2	5
22				0				
23	1300	2	4	24	1	1	3	1
24	1310	2	3	23	1	1	1	2
25	1440	2	5	25	1	1	1	4
26	1325	3	8	38	1	2	1	7
27				0				
28	1250	3	8	38	1	2	2	6
29	920	3	9	39	1	2	2	7
30				0				
31				0				

Observations	Groups	Spots	W no.	North Groups	South groups	North spots	South spots
18	76	278	1038	45	31	180	98

	<u>Monthly Means</u>	
MDF	57,7	1 Observer
MDF g	4,2	1 Observer
MDF Ng	2,5	1 Observer
MDF Sg	1,7	1 Observer

Observers:

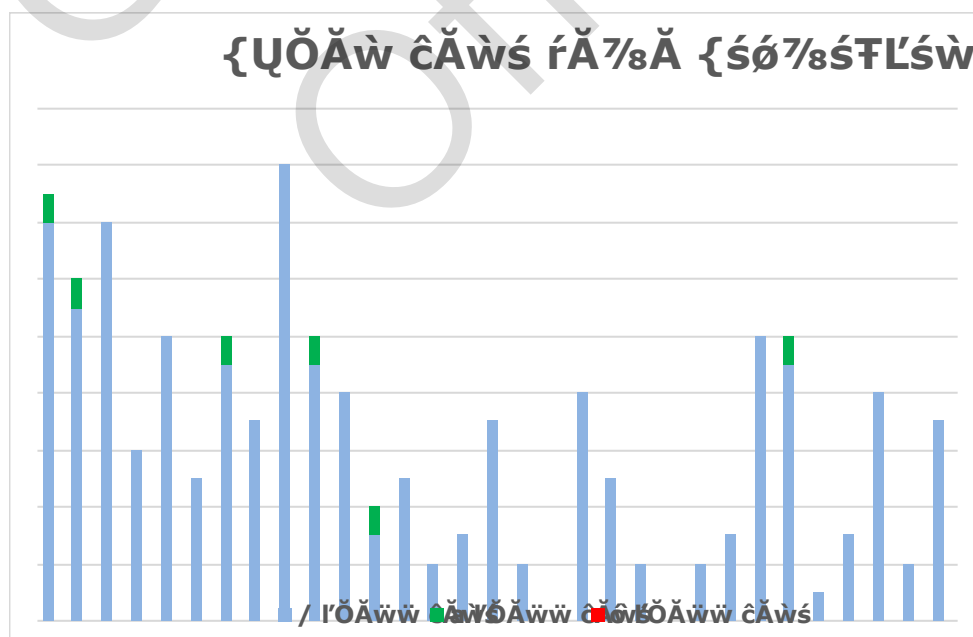
Jacques van Delft

ASSA Bloemfontein South Africa

When more than 1 observer is submitting sunspots, the average per day is calculated and noted.

- SOLAR FLARE ACTIVITY OCTOBER 2023**

Solar flares are classified according to their x-ray brightness in the wavelength range 1 to 8 Angstrom. There are 3 categories: C class – minor, M class – medium and X class – big. Each category has 9 subdivisions.



2023	October	C class	M class	X class
	1	14	1	
	2	11	1	
	3	14		
	4	6		
	5	10		
	6	5		
	7	9	1	
	8	7		
	9	16		
	10	9	1	
	11	8		
	12	3	1	
	13	5		
	14	2		
	15	3		
	16	7		
	17	2		
	18	0		
	19	8		
	20	5		
	21	2		
	22	0		
	23	2		
	24	3		
	25	10		
	26	9	1	
	27	1		
	28	3		
	29	8		
	30	2		
	31	7		
	Totals	191	6	0

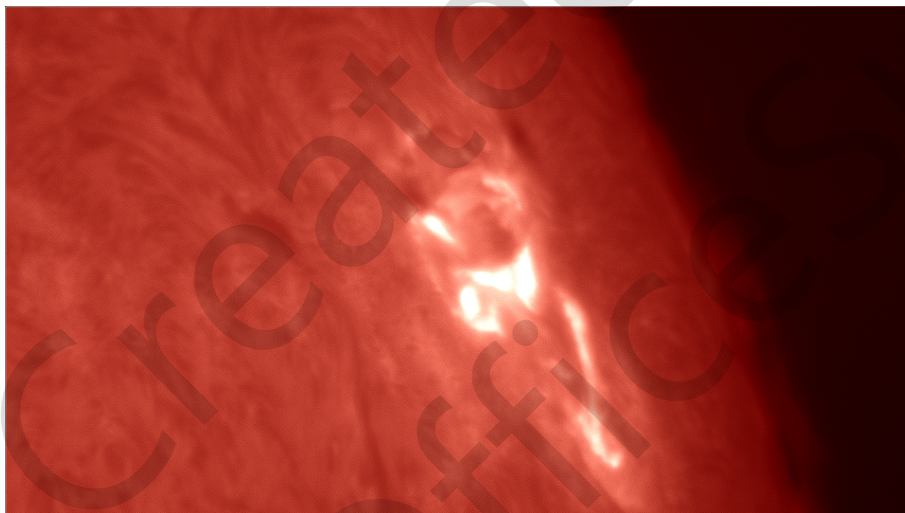
Credit: NASA
SDO

- **H Alpha Observations**

Two observers shared their H Alpha data for August 2023. Andrew Devey from BAA & MSAS living in Spain using a PST double stack H Alpha telescope, Mick Nicholls from BAA and MSAS living in the United Kingdom using a PST 40mm single or double stack H Alpha telescope.

October. 2023	Counts	Observations	MDF
Prominance	190	30	6,3
Plage Areas	134	30	4,5
Filaments	246	30	8,2
Flares	1	30	0,0

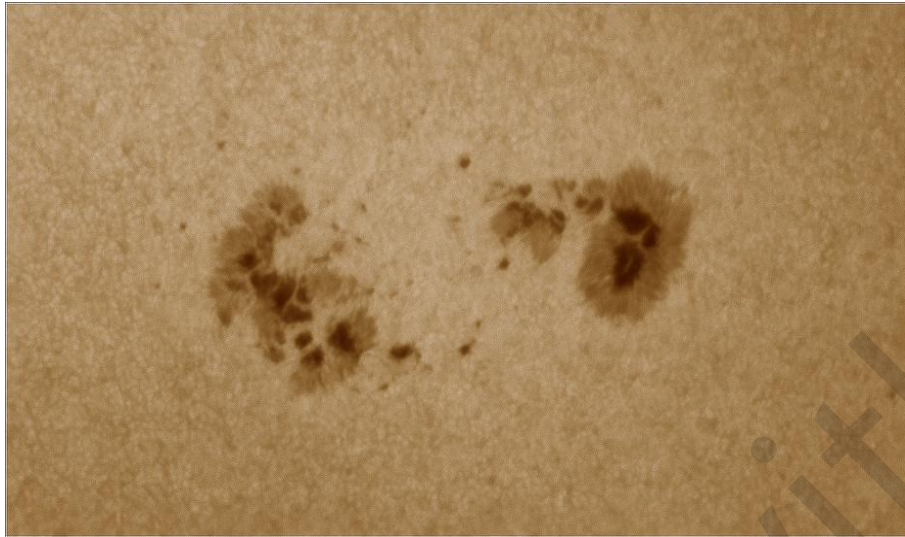
- **Solar images**



Andrew Devey BAA & MSAS image of a M 2.3 class flare AR 3451 Oct 10

See the video at:

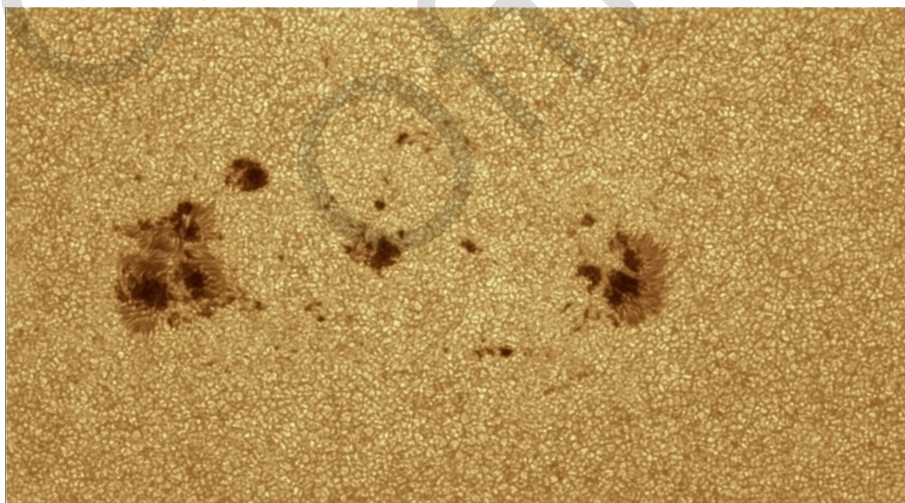
https://spaceweathergallery2.com/full_image.php?image_name=Andy-Devey-2023-10-10-from-1207-to-1236UT_1696956498.gif



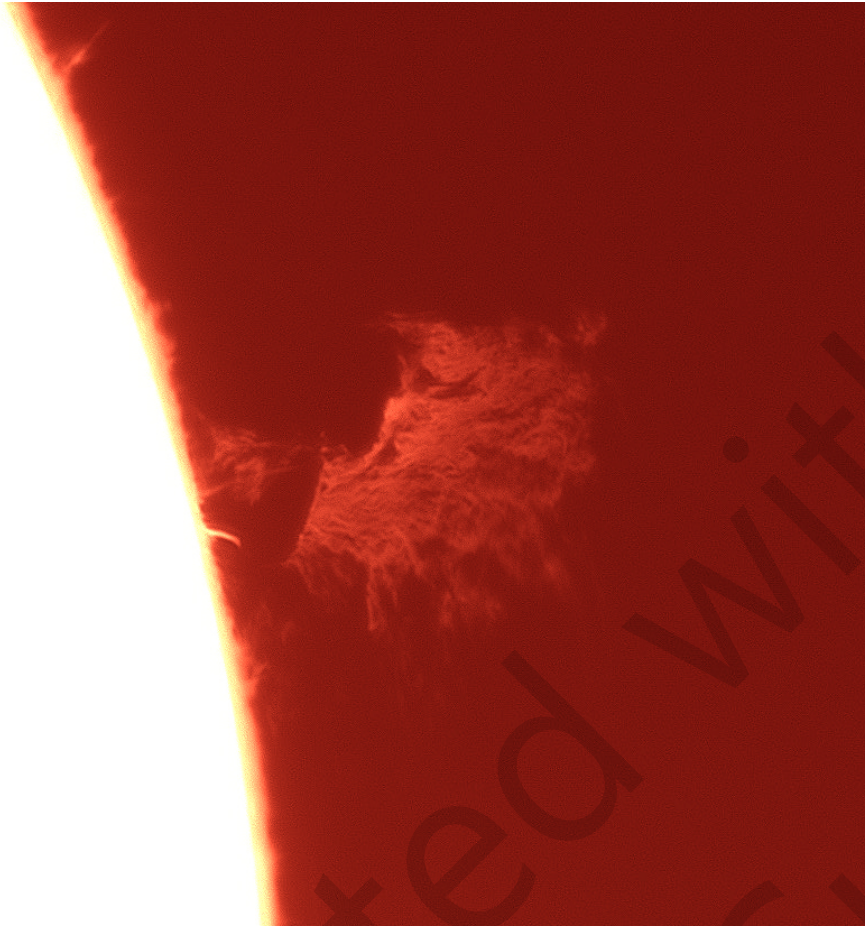
Andrew Devey BAA & MSAS Sunspot AR 3475



Andrew Devey BAA & MSAS Sunspot AR 3451 & 3452



Andrew Devey BAA & MSAS Sunspot AR 3460



Andrew Devey BAA & MSAS Prominence on the North Western limb

Thanks to Mick and Andrew for they're valuable contributions.

Clear Skies

Jacques van Delft

Solar Section ASSA