

WHITE LIGHT SOLAR ACTIVITY

White light MDF, 1995 April

Observer	MDF				R		Q	
	North	South	Total	Days	Total	Days	Total	Days
W. Heyes	0.23	0.54	0.77	13	-	-	2.54	13
K.J. Medway	0.43	0.57	1.00	28	-	-	-	-
T. Tanti	0.25	0.50	0.75	20	15.40	20	2.20	20
E.H. Strach	0.17	0.55	0.72	29	-	-	2.52	29
D.P. Elias	-	-	0.85	27	17.70	27	-	-
M. Gotz	-	-	0.65	20	-	-	-	-
J.G. Gissing	0.21	0.71	0.93	14	-	-	2.50	14
CUAS	0.40	0.60	0.90	17	17.10	17	-	-
P. Meadows	0.80	0.20	1.00	20	16.20	20	3.05	20
MEANS	0.36	0.52	0.84	188	16.67	84	2.56	96

MDF = Mean Daily Frequency of active areas, R = sunspot number, Q = mean quality estimate (JBAA 98,6,pp282-286)

Table 1

BAA/TA Comparison

Month	Active areas		Spot numbers	
	BAA	TA	BAA	TA
1995 March	2.29	2.03	36.45	34.69

Sunspot Activity, 1995 April

Most observers noted that solar activity was very low in April, Elias reports that the disk was blank on 12 days with the N hemisphere less active than the S. Strach's MDF was the lowest recorded since February 1987 and he notes that only four spot groups were followed during the month - two of which had been carried over from the end of March.

As the month opened there were two small groups approaching the W limb. According to Meadows one

was a type B at 0/265 and the other was a type C at S15/275 ($\pm 5^\circ$). These left the disk on the 4th leaving only faculae present.

Strach observed two new groups during the month. The first came around the E limb on April 11 at S4/38 and developed into a significant bipolar Eki group. Medway notes that this group may have in latitude since his positions for the leader were N2/W29 on the 18th and N1/W43 on the 19th. On the 14th a further bipolar group appeared in the N hemisphere at N9/39. Both groups reached the CM on April 10 and crossed the W limb on the 22nd.

Elias observed a polar facula on the 17th in the S and Strach observed polar faculae on the 25th and 27th, both in the S.

MONOCHROMATIC SOLAR ACTIVITY

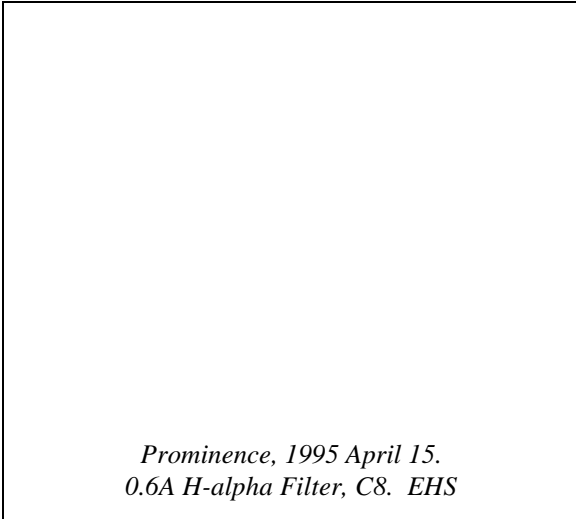
Prominence MDF, 1995 April

Observer	All Latitudes				0-40°			40-90°		
	North	South	Total	Days	North	South	Total	North	South	Total
K.J. Medway	2.06	3.00	5.06	15	1.87	2.00	3.87	0.20	1.00	1.20
E.H. Strach	2.10	2.42	4.52	21	1.38	1.95	3.33	0.71	0.48	1.19

Prominence activity

Prominence activity was relatively low during the month. Strach saw a high arc formation on the W limb at S13 to S18 on the 28th and an incomplete loop was quite

conspicuous on the W limb at N41 on the 15th (see figure). Medway noted that the prominences that he saw were distributed in latitude but that there seemed to be concentration in the zone $\pm 20^\circ$. On the 8th he saw a row



*Prominence, 1995 April 15.
0.6A H-alpha Filter, C8. EHS*

of tall "tree" prominences down the W limb and by the 9th these trees had assumed a leaning posture.

On March 31 a prominence was seen on the E limb at S41. As it rotated on to the disk it was seen as a filament along the 40° parallel where it reached the CM on the 7th. On the 13th it connected with a small prominence on the W limb at S39 and during the next two days Strach saw two interwoven prominences extending from W34 to W38.

Low hedgerow prominences were seen on the E limb from S26 to S31 on April 18, 19 and 20 and on the 21st filaments were seen in the corresponding positions on the disk.

On the 14th Ken Medway took delivery of a camcorder. This is being put to good use imaging the sun in H α . We look forward to publishing some images of spectacular events.

Flares, 1995 April

Medway observed a number of flares during the month. The one seen on the 12th was followed at 1737 by very short-lived, dark surge filaments.

Date	Time	Lat	CMD	Type	Obs.
1	1300	Sf	N08	W43	KJM
2	1040-1100	Sn	N05	W38	KJM
2	1425	Sn	S11	W50	KJM
12	1736-1740	Sf	S02	E56	KJM
13	1149	Sf	S10	E44	KJM
13	1158-1203	Sf	S06	E42	KJM
14	1512	1B	N07	E30	KJM