WHITE LIGHT SOLAR ACTIVITY

White light MDF, 1995 March

Observer	MDF				R		Q	
	North	South	Total	Days	Total	Days	Total	Days
B. Hardie	0.52	1.82	2.34	23	35.82	23	-	-
K.J. Medway	0.50	1.53	2.03	28	-	-	-	-
E. Strach	0.50	1.64	2.14	22	36.94	16	6.23	22
P. Meadows	0.93	1.60	2.53	15	37.90	15	7.33	15
J.G. Gissing	0.33	1.67	2.00	12	-	-	4.60	12
W. Hayes	-	-	1.14	7	-	-	2.86	7
D.P. Elias	-	-	2.21	28	37.60	28	-	-
Shanklin (Faraday)	-	-	1.60	14	21.00	14	-	-
M. Götz	-	-	1.10	10	-	-	-	-
MEANS	0.55	1.65	2.03	159	34.69	96	5.75	56

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 February	2.60	2.17	36.82	40.61

Sunspot Activity, 1995 March

Activity was slightly lower than the month before. Observers noted that there was a predominance of activity in the S hemisphere. Strach notes that no spots were seen in the N in the first half of the month.

At the beginning of the month Medway reports that a medium bipolar group was just visible to the naked eye after it had passed the CM on the 4th. This group was also seen by Strach and was to reappear after one rotation at the end of the month.

The 15th saw the return of a group from the previous rotation at S15/29. According to Strach it had become a clear bipolar group of the Dao type. As it approached the CM it developed many minor spots between the two main members causing the main spots to drift more than 10° apart. This group cleared the W limb on the 27th.

A spot appeared around the E limb on the 23rd at S16/277 and developed into a unipolar group. It crossed the CM on the 29th. This spot had been seen on the previous rotation as it crossed the CM on the 2nd at S14/278.

Unusually for this time in the cycle Strach noted two small low-latitude groups. One was at S2.5/264 and the other at N7.5/243. Strach's average *spot latitude's* were 11.7° in the N (3 groups) and 12.7°in the S (8 groups). He observed *polar faculae* in the S on March 12, 13, 17, 18, 19, 20, 22, 23 and 27. Elias observed polar faculae in the S on the 12th and 17th.

MONOCHROMATIC SOLAR ACTIVITY

Prominence MDF, 1995 March

Observer	All Latitudes				0-40°			40-90°		
	North	South	Total	Days	North	South	Total	North	South	Total
E.H. Strach	2.24	2.33	4.52	21	1.86	1.95	3.81	0.38	0.38	0.76
K.J.Medway	3.00	2.40	5.40	10	1.50	1.80	3.20	1.60	0.60	2.20
B. Hardie			5.27	11						

Prominence activity

Strach observed a few remarkable prominences during the month. A high arc was seen on the 2nd at S50 on the W limb; its N part being adjacent to a filament. On the 4th Medway noted a tree-type prominence was visible on the NE limb at N20. Later, a tall pillar was noted on the NW limb on the 12th. More impressive was a large loop seen on the NW limb on the 16th.

By the 22nd Strach noted a dense and very active prominence on the E limb at S23. He observed its

evolution from 0940 until 1605 and throughout this period it was slightly above the chromosphere. On the following day it was seen as a slightly extended hedgerow type.

Medway observed a long hedgerow/arch on the NW limb on the 25th at N40. It had gone by the 27th. A very tall spire was seen on the 29th at N38 on the NE limb. Strach also observed this prominence and estimated its height as 120,000km above the photosphere. Medway reports an arch prominence on the SW limb which developed into a tight loop by 1414UT on the 29th. By the 31st Strach noted a faint, high arch in a similar position to the pillar seen on the 29th and on the same day a feather shaped prominence was seen on the W limb at S15.

Medway reports that filaments were very numerous in March. Six were counted on the 18th. According to Strach the bipolar group at S15/260 was accompanied by a curved filament covering the N side of the group up to its crossing of the W limb on March 9. Filaments also accompanied the bipolar group at S15/29.

Flares, 1995 March

Date	Time	Lat	CMD	Type	Obs.
16	1053	S8	E62	Sf	KJM
19	1400	S16	E23	Sf	KJM
27	1608	S14	E34	Sf	KJM
29	0750	S15	0	Sf	EHS
29	1322-1334	S18	E8	Sf/Sn	KJM
29	1434-1442	S18	E8	Sn	KJM
29	1511	S16	E3	2xSB	KJM