

WHITE LIGHT SOLAR ACTIVITY

White light MDF, 1995 July

| Observer | MDF | | | | R | | Q | |
|--------------|-------|-------|-------|------|-------|------|-------|------|
| | North | South | Total | Days | Total | Days | Total | Days |
| J.G. Gissing | 0.36 | 0.14 | 0.50 | 14 | - | - | 1.10 | 14 |
| W. Heyes | 0.47 | 0.07 | 0.53 | 15 | - | - | 1.53 | 15 |
| K.J. Medway | 0.77 | 0.29 | 1.06 | 31 | - | - | - | - |
| B. Hardie | 0.76 | 0.16 | 0.92 | 25 | 13.16 | 25 | - | - |
| P.J. Meadows | 0.50 | 0.19 | 0.69 | 16 | 9.63 | 16 | 1.56 | 16 |
| E.H. Strach | 0.68 | 0.24 | 0.92 | 25 | 17.60 | 15 | 2.60 | 25 |
| CUAS | 0.60 | 0.40 | 1.00 | 25 | 13.00 | 25 | - | - |
| M. Götz | - | - | 0.61 | 18 | 11.76 | 18 | - | - |
| MEANS | 0.63 | 0.23 | 0.83 | 169 | 12.97 | 99 | 1.83 | 70 |

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

BAA/TA Comparison

| Month | Active areas | | Spot numbers | |
|-----------|--------------|------|--------------|-------|
| | BAA | TA | BAA | TA |
| 1995 June | 1.00 | 0.87 | 16.83 | 15.24 |

Sunspot Activity, 1995 July

Solar activity remained as miserable levels in July with most activity in the N hemisphere. Strach observed a total of six groups during the month with four in the N and two in the S. One of the S groups was visible for only one day and, according to Strach, was at the relatively high latitude of S16/117.

July started with two groups in the N, one of type Cao at N10/43 and the other, a faint spot, of type Axx at N9/67. The only S group of importance was first seen near to the E limb on the 6th at S10/320. It assumed a bipolar configuration and then died on the disk around the 13th.

Strach saw a near-equatorial group on the 14th at N3/280. This crossed the Cm on the 16th but it must have died on the disk since he could not see it on the 20th. On this date another bipolar group was seen approaching the CM at N8/213. It was last seen on the 22nd as three small spots but must have then died on the disk leaving bright plages in its place up to the 25th. This plage flared up on the 24th giving rise to a Sf flare at 0624.

Medway noted that the good weather during July allowed him to complete white light observations on all 31 days of the month. He reports that a probable new cycle spot was observed at S28/E15 on the 20th at 0624. This spot had gone by the next day. Meadows reports the position of this spot as S20/223.

Strach observed *polar faculae* in the S on July 3, 9, 10, 14, 22, 25, 26, 27 and 29 and in the N on July 9, 10, 22, 25, 26, 27 and 29.

MONOCHROMATIC SOLAR ACTIVITY

Prominence MDF, 1995 July

| Observer | All Latitudes | | | | 0-40° | | | 40-90° | | |
|-------------|---------------|-------|-------|------|-------|-------|-------|--------|-------|-------|
| | North | South | Total | Days | North | South | Total | North | South | Total |
| E.H. Strach | 1.52 | 1.65 | 3.17 | 23 | 0.87 | 1.17 | 2.04 | 0.65 | 0.48 | 1.13 |
| K.J. Medway | 1.79 | 2.54 | 4.33 | 24 | 1.21 | 2.08 | 3.29 | 0.58 | 0.46 | 1.04 |
| B. Hardie | | | 3.81 | 16 | | | | | | |

Prominence activity, 1995 July

Medway reports that most of the prominences that he observed during the month were confined to latitudes within $\pm 40^\circ$ of the equator. He notes that most prominences were small except for a hedgerow on the

NW limb on the 13th and several tall spikes on the NW limb on the 16th. Strach reports that "remarkable" prominences were seen on the NW limb between the 13th and 16th culminating in multiple arch systems on the 15th. The appearance of these prominences was anticipated from the 9th since two sets of filaments were

approaching the W limb. The figure shows the growth of the prominence on the 15th.

Flares, 1995 July

| Date | Time | Lat | CMD | Type | Obs. |
|------|-----------|-----|-----|------|------|
| 1 | 0942 | N12 | E72 | SB | BH |
| 9 | 1011-1055 | S11 | E30 | Sn | BH |