

WHITE LIGHT SOLAR ACTIVITY

White light MDF, 1995 December

Observer	MDF				R		Q	
	North	South	Total	Days	Total	Days	Total	Days
E.H. Strach	0.12	0.94	1.06	16	12.83	12	2.19	16
G.F. Johnstone	0.00	0.80	0.80	5	5.00	5	-	-
P. Meadows	0.14	1.29	1.43	7	16.43	7	2.00	7
B. Hardie	0.26	0.63	0.89	19	10.84	19	-	-
K. Medway	0.00	0.37	0.37	19	-	-	-	-
J. Shanklin	-	-	0.30	12	-	-	-	-
M. Götz	-	-	0.31	13	6.34	13	-	-
MEANS	0.12	0.71	0.69	91	10.40	56	2.13	23

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

Shanklin's observations were from Antarctica using 20x80 binoculars.

BAA/TA Comparison

Month	Active areas		Spot numbers	
	BAA	TA	BAA	TA
1995 November	0.93	0.81	11.36	11.75

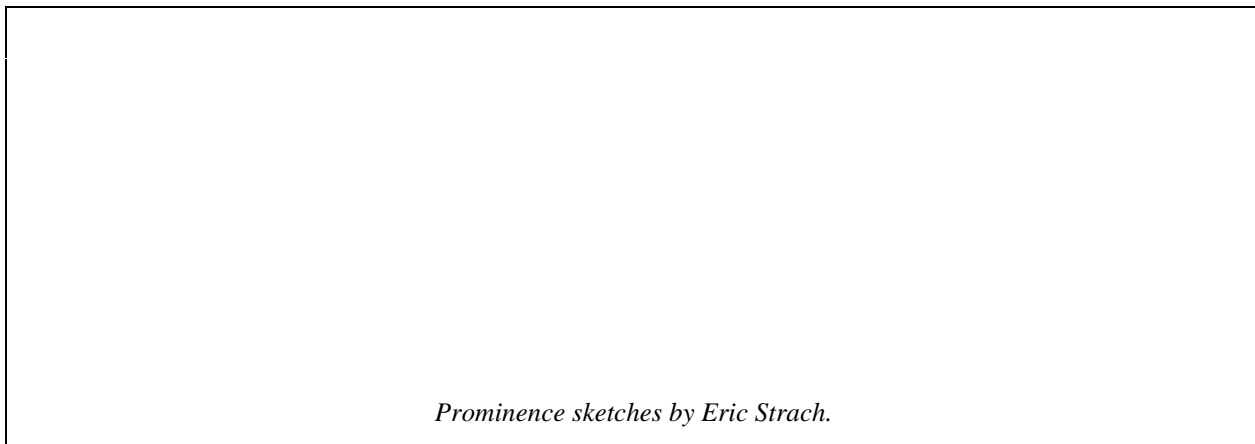
Sunspot Activity, 1995 December

Solar activity remains very low with the S hemisphere dominant. The most prominent group seen during the month crossed the CM on the 9th. According to Meadows it was a single J-type penumbral spot of area 90 millionths on the 8th. He measured the position as S10/151. Strach noted two small satellite spots to its WSW on the 6th and he recorded the position as S10/147. Both observers note that this was the third rotation of a spot originally seen in October. This spot finally crossed the W limb on the 15th/16th leaving bright Hydrogen on the limb for two days.

Very little else of note was seen during the month. On the 10th a new spot appeared at S19/154 but Strach noted that it only survived for two days. On the 20th Strach reports that an Axx spot was seen at S11/301 and on the 26th it was replaced by a plage in the same position. Also on this date two smaller spots were seen in the S hemisphere. Strach categorizes these as an Axx spot at S6/252 and a Bxo spot at S8/277. The only N spot seen appeared on the 27th and was a Jsx type at N10/201.

Strach saw a total of five groups in the S with an average latitude of 10.8°. He recorded *Polar faculae* on December 10 (S), 16 (S & N), 20 (N), 25 (S), 26 (S), 27 (S & N) and 30 (N).

Medway observed the Sun on 289 days in 1995, just beating his 1975 record of 288 days. A tremendous achievement from the UK!



Prominence sketches by Eric Strach.

MONOCHROMATIC SOLAR ACTIVITY

Prominence MDF, 1995 December

Observer	All Latitudes				0-40°			40-90°		
	North	South	Total	Days	North	South	Total	North	South	Total
E.H. Strach	1.64	1.91	3.55	11	0.72	1.45	2.17	0.91	0.45	1.36
K.J. Medway	1.00	2.00	3.00	4	0.75	0.75	1.5	0.25	1.25	1.50
B. Hardie	-	-	2.00	5	-	-	-	-	-	-

Prominence activity, 1995 December

The poor weather in the UK caused problems for H α observers. Strach recorded an arch prominence on the E limb on the 20th. Medway reports that on Christmas day several interesting features were seen. A low arch was seen on the NW limb at N45 and there were some pillars on the SW limb. By the 26th he saw a tall, spindly pillar on the NW limb at N26 and a spectacular tall fountain on the SW limb at S20. Strach also observed these prominences under excellent conditions and his sketches are attached.

Flares, 1995 December

Date	Time	Lat	CMD	Type	Obs.
14	1027-1035	S11	W62	Sb	BH