

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION

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SOLAR ACTIVITY DURING JUNE 1982

Sunspot data for June 1982 are given in the table of daily numbers (R_a and R'_I) on page 2, with recent monthly means graphed at the bottom of this page. Overall activity increased from May levels, but remained low, as the June mean for daily AAVSO final sunspot numbers rose to 113.5 from the 82.6 in May. The 12-month smoothed mean continued its decrease, dropping to 139.8 for December 1981, its lowest in three years. Final daily AAVSO numbers varied from 150 on the 20th to a 3-year low of 34 on the 28th. Numbers began low and rose steadily through the 14th, as clusters of spot groups rotated around the east limb on the 1st, 2nd, and 8th. The cluster of the 2nd was dominated by a single group of 60+ spots, which remained at a high level of activity for its entire disc passage. As active regions rotated off the disc on the 13th, another large group appeared around the east limb, and increased to 90+ spots by the 16th. A small following group developed on disc into a major complex group of 80+ spots by the 20th. From the 22nd, numbers fell rapidly, as the major active regions rotated around the west limb.

Sudden Enhancements of VLF Signals (SEs) detected by participants in the AAVSO Indirect Solar Flare Patrol shot up to a surprising 217 in June (list on page 2), after only 60 in April and 75 in May. 139 of the events occurred in the first half of the month, with the greatest numbers on the 4th (16), 5th (21), and 12th (14), and with zero frequencies on the 28th and the 30th. Importance 3 events increased to 22 from 3 in May, and Importance 4 from zero in May to 3. Readers should note and correct a transposed caption in the May issue: caption on lower tape record should read "A-55, Eureka, Montana, 28 May 1982, SES 60 kHz," rather than "A-31...."



