

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

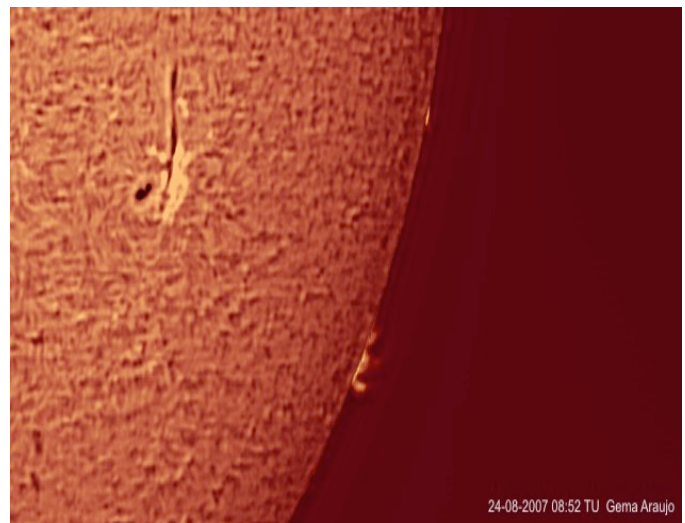
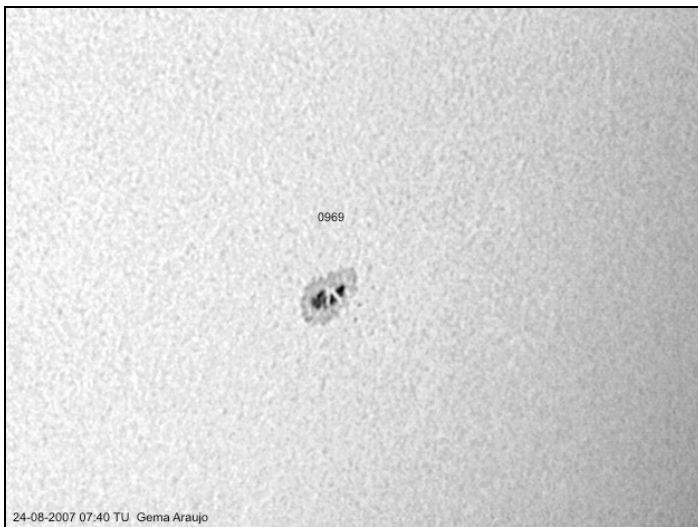


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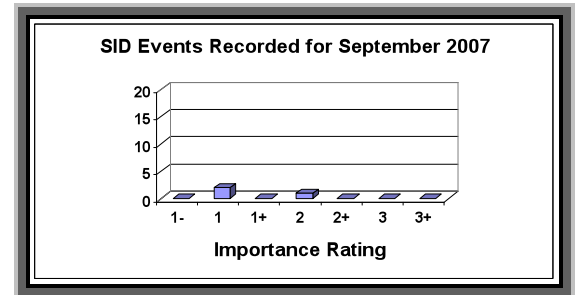


Gema Araujo caught wonderful images of AR0969 on August 24, 2007, a few minutes before (left) and an hour after (right) a class C2.0 flare erupted and recorded by several SID observers. You can see more of Gema's nearly daily images at www.astrosurf.com/obsolar/

August must have produced many clear days as sunspot observers added nearly 200 more observations this month than July. Hopefully the clear weather trend will continue into September.

Remember to send me any solar drawings, SID flares or photos for me to include here.

Solar Events

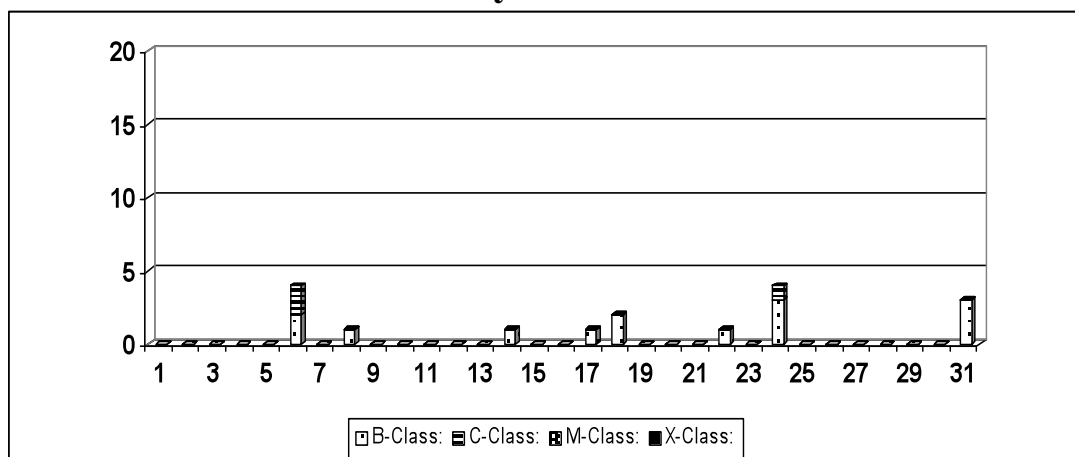


August was an exceptionally slow month again for SID activity. There were only 3 correlated SID events reported by observers. Even the GOES Spacecraft did not see much action recording only 17 X-Ray flare events. All of these in fact were only B and C class events.

One of our observers Jon Wallace (A97) had the pleasure of visiting one of the most powerful VLF stations that are used in the SID program (NAA in Cutler, Maine) here is a picture that gives an idea of the size of one of these transmitting stations.



Solar Flare Summary Based on GOES-12 Data



American Relative Sunspot Numbers (Ra) for
August 2007 [**boldface = maximum, minimum**]

| Day | N | Raw Mean | Ra |
|-----|----|----------|-----------|
| 1 | 38 | 0 | 0 |
| 2 | 29 | 0 | 0 |
| 3 | 44 | 3 | 2 |
| 4 | 41 | 10 | 7 |
| 5 | 37 | 11 | 8 |
| 6 | 37 | 14 | 10 |
| 7 | 35 | 12 | 9 |
| 8 | 36 | 16 | 12 |
| 9 | 31 | 15 | 11 |
| 10 | 33 | 14 | 10 |
| 11 | 37 | 11 | 8 |
| 12 | 41 | 9 | 5 |
| 13 | 39 | 6 | 4 |
| 14 | 38 | 2 | 1 |
| 15 | 37 | 1 | 1 |
| 16 | 37 | 0 | 0 |
| 17 | 40 | 0 | 0 |
| 18 | 39 | 0 | 0 |
| 19 | 36 | 0 | 0 |
| 20 | 38 | 0 | 0 |
| 21 | 32 | 11 | 7 |
| 22 | 34 | 12 | 9 |
| 23 | 32 | 13 | 9 |
| 24 | 33 | 14 | 10 |
| 25 | 38 | 13 | 10 |
| 26 | 40 | 13 | 10 |
| 27 | 37 | 12 | 9 |
| 28 | 40 | 13 | 10 |
| 29 | 34 | 13 | 9 |
| 30 | 33 | 19 | 14 |
| 31 | 36 | 22 | 17 |

Means 36.5 9.0 6.5

No. of Observers: 58

Total No. of Observations: 1132

Reporting Addresses:

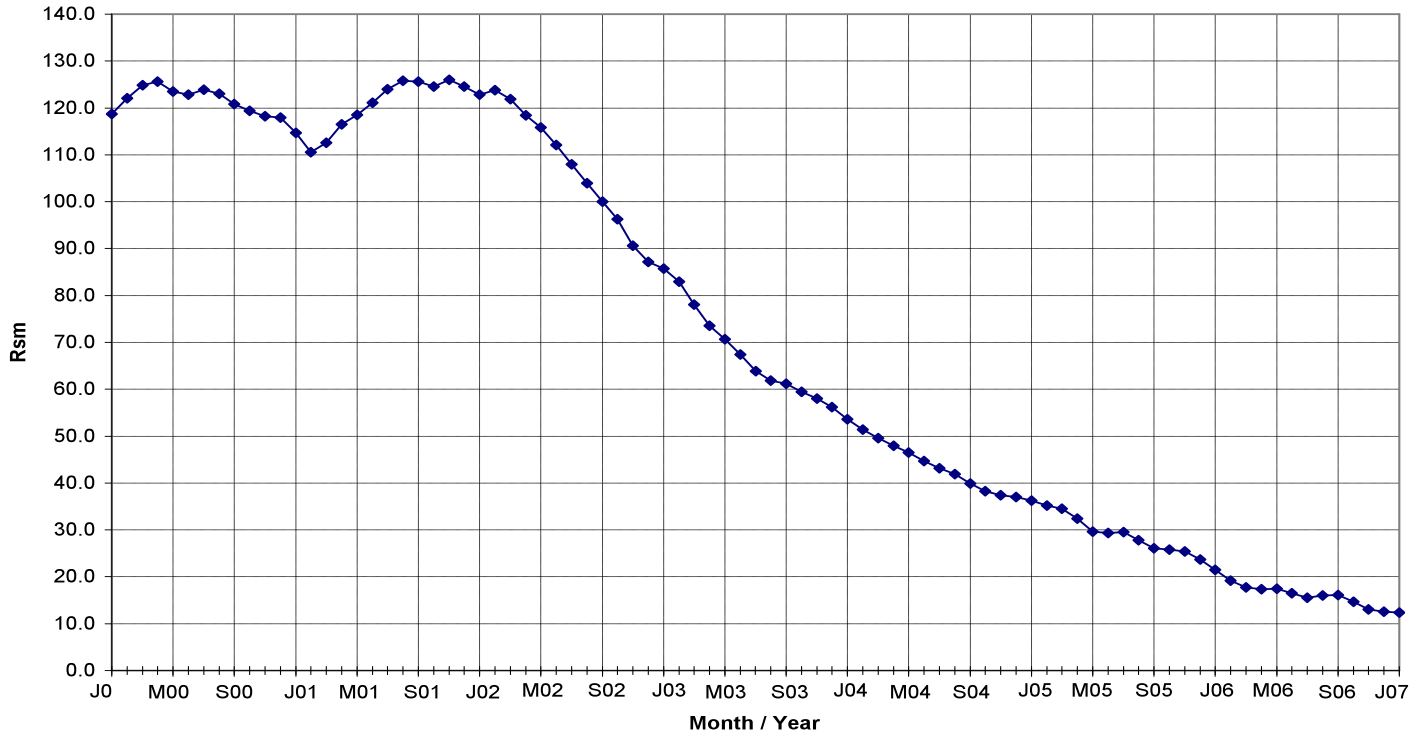
Sunspot Reports – Email: solar@aavso.org Postal Mail: AAVSO,
49 Bay State Rd. Cambridge, MA, 02138 Fax: 617-354-0665

SID Flare Reports – email: noatak@aol.com Postal Mail: Mike Hill,
114 Prospect St., Marlboro, MA, 01752

August 2007 Sunspot Observers

| | | |
|------|------------------|----|
| AAP | A. Abbott | 17 |
| AJV | J. Alonso | 27 |
| ARAG | G. Araujo | 31 |
| ARE | R. Alessi | 2 |
| BARH | H. Barnes | 10 |
| BATR | R. Battaiola | 18 |
| BEB | R. Berg | 10 |
| BERJ | J. Berdejo | 6 |
| BMF | M. Boschat | 19 |
| BRAB | B. Branchett | 30 |
| BRAD | D. Branchett | 22 |
| BRAR | R. Branch | 31 |
| BROB | R. Brown | 31 |
| BVC | A. Buck | 31 |
| CHAG | G. Morales | 30 |
| CKB | B. Cudnik | 17 |
| CLZ | L. Corp | 9 |
| CNT | D. Chantiles | 6 |
| COMT | T. Compton | 14 |
| DEJV | J. van Delft | 41 |
| DGP | G. Dyck | 19 |
| DUBF | F. Dubois | 27 |
| FLET | T. Fleming | 27 |
| FUJK | K. Fujimori | 27 |
| GFT | F. Gobet | 19 |
| GOEM | M. Goetz | 8 |
| HALB | B. Halls | 16 |
| HAYK | K. Hay | 21 |
| HMQ | M. Harris | 12 |
| KAPJ | J. Kaplan | 17 |
| KNJS | J. & S. Knight | 10 |
| KROL | L. Krozel | 2 |
| KUZM | M. Kuzmin | 6 |
| LARJ | J. Larriba | 9 |
| LERM | M. Lerman | 15 |
| MARJ | J. Maranon | 30 |
| MCE | E. Mochizuki | 23 |
| MCHL | L. McHenry | 2 |
| MILJ | J. Miller | 17 |
| MMI | M. Moeller | 24 |
| OATS | S. Oatney | 28 |
| OBSO | IPS Observatory | 18 |
| RICE | E. C. Richardson | 19 |
| RITA | A. Ritchie | 22 |
| SCGL | G. Schott | 27 |
| SIMC | C. Simpson | 6 |
| STEF | G. Stefanopoulos | 16 |
| STEM | G. Stemmler | 22 |
| STQ | N. Stoikidis | 29 |
| SUZM | M. Suzuki | 30 |
| SZUM | M. Szulc | 31 |
| TESD | D. Teske | 28 |
| TJV | J. Temprano | 18 |
| URBP | P. Urbanski | 23 |
| VIDD | D. Vidican | 21 |
| WILW | W. Wilson | 28 |
| WRP | R. Wheeler | 2 |
| YESH | H. Yesilyaprak | 31 |

Smoothed Mean Sunspot Numbers (Rsm) from January 2000 to January 2007
(Waldmeier Method)



10 cm Solar Flux and American Relative Sunspot Numbers (Ra) for August 2007

10 cm source: <http://www.drao.nrc.ca>

