

# Solar Bulletin

Publisher:

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION  
540 NORTH CENTRAL AVENUE  
RAMSEY, NEW JERSEY, U.S.A.



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Volume 21 Number 6

June 1965

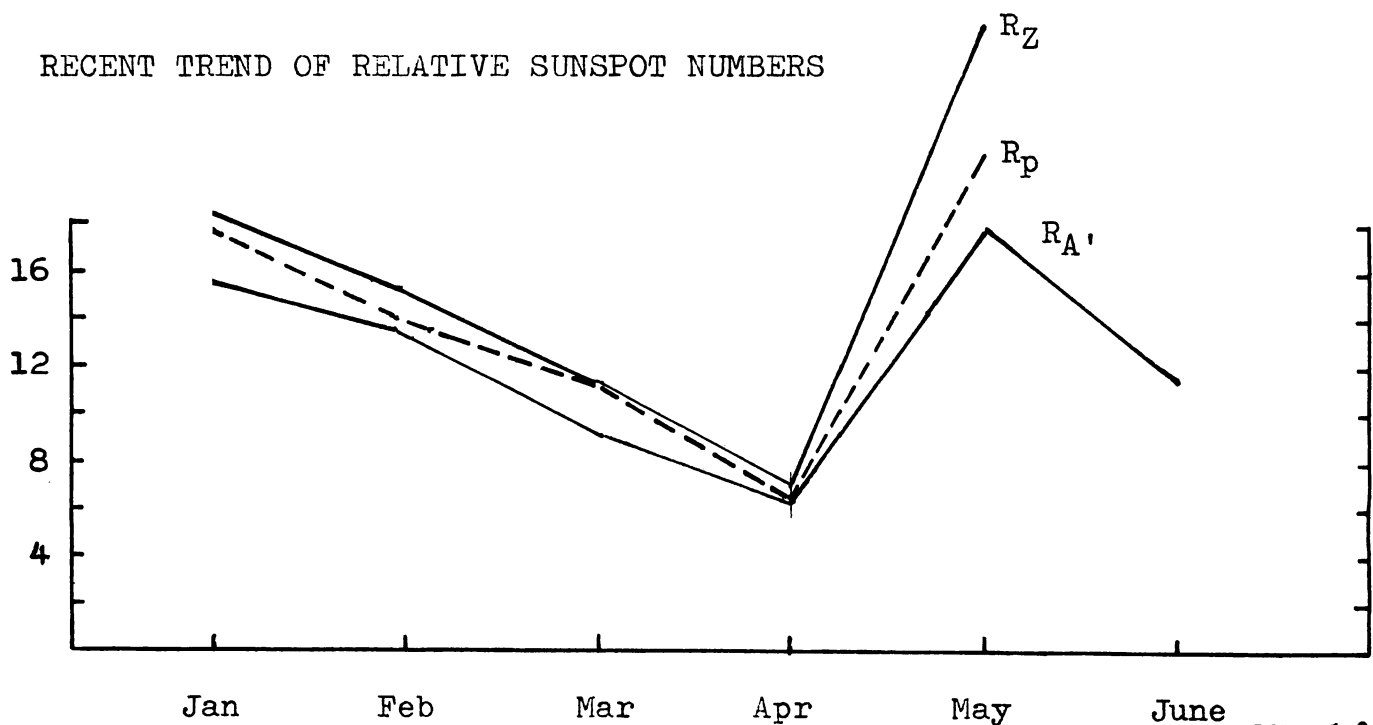
## SOLAR ACTIVITY DURING JUNE

Solar activity decreased from the higher level of last month. Early reports received do not show any definite sudden ionospheric disturbances recorded by Solar Division observers during June.

Sunspot activity was down considerably from last month, but unlike May, most of the activity was in the southern hemisphere. The monthly mean of the American Sunspot Numbers ( $R_A'$ ) fell from 17.7 in May to 11.4 this month (see note on page 2). There were 9 spotless days this month compared to 7 last month. 6 groups with lifetimes greater than 2 days were seen in June.

June started with the formation of the most prominent group of the month; an old-cycle group in the southern hemisphere which reached the west limb by 9 June. A second old-cycle southern group formed on the disk on the 3rd and lasted until 6 June. A pair of spots (2 groups) also appeared at the east limb late on the 6th to give 4 groups, the highest for June. The disk was spotless from 11 through 16 June. A new-cycle southern group formed on the 17th and had reached the west limb by the 22nd. There followed 4 spotless days. A new-cycle northern group formed on the 27th and had reached the meridian by the end of the month. Additional small faint groups were counted by some observers on 18, 19, and 21 June.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



JUL 10 1965

(R<sub>A</sub>,) APRIL 1965

mean = 6.4

|    |    |
|----|----|
| 1  | 0  |
| 2  | 0  |
| 3  | 0  |
| 4  | 0  |
| 5  | 0  |
| 6  | 0  |
| 7  | 0  |
| 8  | 0  |
| 9  | 0  |
| 10 | 0  |
| 11 | 5  |
| 12 | 10 |
| 13 | 11 |
| 14 | 12 |
| 15 | 17 |
| 16 | 12 |
| 17 | 14 |
| 18 | 8  |
| 19 | 0  |
| 20 | 1  |
| 21 | 13 |
| 22 | 19 |
| 23 | 18 |
| 24 | 10 |
| 25 | 10 |
| 26 | 16 |
| 27 | 12 |
| 28 | 3  |
| 29 | 0  |
| 30 | 0  |

(R<sub>A</sub>,) MAY 1965

mean = 17.7

|    |    |
|----|----|
| 1  | 0  |
| 2  | 3  |
| 3  | 4  |
| 4  | 1  |
| 5  | 1  |
| 6  | 0  |
| 7  | 9  |
| 8  | 10 |
| 9  | 4  |
| 10 | 0  |
| 11 | 1  |
| 12 | 7  |
| 13 | 10 |
| 14 | 4  |
| 15 | 29 |
| 16 | 37 |
| 17 | 57 |
| 18 | 55 |
| 19 | 65 |
| 20 | 55 |
| 21 | 48 |
| 22 | 43 |
| 23 | 39 |
| 24 | 30 |
| 25 | 23 |
| 26 | 14 |
| 27 | 1  |
| 28 | 0  |
| 29 | 0  |
| 30 | 0  |
| 31 | 0  |

(R<sub>A</sub>,) JUNE 1965

mean = 11.4

|    |    |
|----|----|
| 1  | 14 |
| 2  | 20 |
| 3  | 29 |
| 4  | 39 |
| 5  | 33 |
| 6  | 33 |
| 7  | 34 |
| 8  | 21 |
| 9  | 13 |
| 10 | 2  |
| 11 | 0  |
| 12 | 0  |
| 13 | 0  |
| 14 | 0  |
| 15 | 0  |
| 16 | 0  |
| 17 | 10 |
| 18 | 17 |
| 19 | 15 |
| 20 | 13 |
| 21 | 11 |
| 22 | 5  |
| 23 | 0  |
| 24 | 0  |
| 25 | 0  |
| 26 | 1  |
| 27 | 6  |
| 28 | 6  |
| 29 | 8  |
| 30 | 13 |

NOTE:

The American Relative Sunspot Number (R<sub>A</sub>,) will be published for the current month starting with this issue of the Solar Bulletin. The provisional sunspot number (R<sub>p</sub>) will therefore be discontinued.



ZURICH RELATIVE SUNSPOT NUMBERS (R<sub>Z</sub>) FOR APRIL 1965

April mean = 6.8

|    |   |    |    |    |    |
|----|---|----|----|----|----|
| 1  | 0 | 11 | 7  | 21 | 9  |
| 2  | 0 | 12 | 9  | 22 | 15 |
| 3  | 0 | 13 | 9  | 23 | 17 |
| 4  | 0 | 14 | 9  | 24 | 10 |
| 5  | 0 | 15 | 27 | 25 | 7  |
| 6  | 0 | 16 | 18 | 26 | 11 |
| 7  | 0 | 17 | 17 | 27 | 10 |
| 8  | 0 | 18 | 8  | 28 | 8  |
| 9  | 0 | 19 | 7  | 29 | 0  |
| 10 | 0 | 20 | 7  | 30 | 0  |