



**Papers & Presentations:**  
**A Report on Carrington Rotations 2216 through 2220**  
**(2019 04 08.7993 to 2019 08 22.9000)**

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**Overview**

Activity in this reporting period ranged from very low to extremely low (see “*R<sub>i</sub> by Carrington Rotation*”). The average *R<sub>i</sub>* (international sunspot number) for the period was 3.75, well below the 5.65 of the previous reporting period (CR 2210-2215) as we plunge towards solar minimum.

Of the 137 days of this report, 97 (or about 70%) were spotless. Most of the activity took place in the first two rotations, but then in CR 2218, the bottom fell out of the sunspot numbers with a low for the report occurring in CR 2220 with an *R<sub>i</sub>* average of only 0.85 (see “*Rotational R<sub>i</sub> for this Report*”).

Peak daily activity occurred on 5/11 at 27 with ARs 2740 & 2741 on the solar disk. Only one region evolved beyond C-class during the period and that was for only one day: AR 2740, which attained Dho with an area of 280 millionths on 5/6.

**Terms and Abbreviations Used In This Report**

Readers are encouraged to review this section to reacquaint themselves with the terms and abbreviations that will be used. In this paper, the ALPO Solar Section is referred to as “the Section”, and Carrington Rotations are called “CRs”. Active Regions are “ARs” and are

