

Dorothy Trotter

HIGH ALTITUDE OBSERVATORY

BOULDER, COLORADO

30 September 1963

Mr. B. C. Parmenter
Northwestern Observatory
6718 East Seventh
Spokane, Washington

Dear Mr. Parmenter:

We were interested to receive your letter to the Solar Data Center concerning your observations of the active region of the past two weeks. The McMath plage number for the region is 6964. It will be some time before the Mt. Wilson sunspot number is available.

The 1928 revision of the Rowland Tables of Fraunhofer Lines gives a very faint, fuzzy line (-3N) at $\lambda 6209.760$. The tables do not indicate that it is enhanced in sunspots, but such enhancement would not be surprising, since this is the case with most low-excitation lines. It is difficult to understand why such short-lived enhancement should be present, or what the apparent emission in the wings might have been.

Mrs. Charlotte Moore Sitterly, National Bureau of Standards, Washington, D. C., who has been working for many years to compile a new table of solar lines would, I believe, be interested in hearing of the marked active-region enhancement at this wavelength.

Very truly yours,

Donald E. Billings

DEB:nkw