

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 515A ISSUED AT 1700Z

APRIL 30 1967

- A. FLARE ACTIVITY HAS BEEN FREQUENT DURING THE PAST 24 HOURS FROM THE REGION NOW AT S20 E42. AN UNCONFIRMED IMPORTANCE 2 FLARE WAS REPORTED FROM THIS REGION BY WENDELSTEIN AT 1050Z. IMPORTANCE ONE FLARES WERE REPORTED FROM THE REGION AT 0055Z 0425Z 0530Z 0600Z 0938Z 1152Z AND 1310Z. NONE OF THE EVENTS WERE ACCOMPANIED BY REPORTS OF RADIO EMISSIONS OR X-RAY EFFECTS. ALL OF THE EVENTS ARE CONSIDERED LESS IMPORTANT THAN THE OPTICAL REPORTS INDICATE. THE SUNSPOTS IN THIS SE REGION HAVE GROWN SLIGHTLY. ALL OTHER REGIONS ON THE DISK OF THE SUN APPEAR TO BE DECAYING SLOWLY. A PREVIOUSLY UNREPORTED IMPORTANCE ONE FLARE OCCURRED YESTERDAY AT 1514Z AT S22 E60.
- B. SOLAR ACTIVITY IS EXPECTED TO BE RELATIVELY UNCHANGED DURING THE FORECAST PERIOD. SMALL FLARES SHOULD CONTINUE TO OCCUR IN THE SE REGION. MAJOR FLARES ARE POSSIBLE BUT UNLIKELY TO OCCUR.
- . CTHE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 1-3 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
- IMPORTANCE ONE OR GREATER 100/100/100
- IMPORTANCE TWO OR GREATER 15/15/15
- IMPORTANCE THREE OR GREATER 1/1/1
- PROTON EVENTS 5/5/5
- D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 134. THE PREDICTED VALUES FOR MAY 1-3 ARE 135/135/135
- E. THE MAGNETIC INFORMATION WILL BE INCLUDED ON THE 2300Z FORECAST.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 515B ISSUED AT 2300Z

APRIL 30 1967

A. SOLAR ACTIVITY HAS BEEN LIMITED TO SUBFLARES SINCE THE PREVIOUS FORECAST. THE MOST SIGNIFICANT WAS A BRIGHT SUBFLARE AT S20 E41 AT 1637Z. IT WAS ACCOMPANIED BY A VERY SMALL IONOSPHERIC DISTURBANCE. THE REGION WHICH PRODUCED THIS EVENT CONTINUES AS THE MOST LIKELY SOURCE OF FUTURE ACTIVITY. THE 3 MM RADIO TEMPERATURE OF THIS REGION HAS RISEN STILL FURTHER BUT THE SUNSPOT GROUP REMAINS AT ONLY 100 MILLIONTHS AREA AND TYPE D. A SURGE WAS REPORTED AT 1857Z FROM EAST LIMB N35. THE GREEN CORONA IS MODERATELY BRIGHT AT N07 EAST LIMB.

B. SOLAR ACTIVITY SHOULD REMAIN UNCHANGED DURING THE FORECAST PERIOD. SMALL FLARE ACTIVITY SHOULD CONTINUE IN THE SE REGION. MAJOR FLARES ARE POSSIBLE THERE BUT NOT LIKELY. NEW REGIONS MAY APPEAR AT EAST LIMB TOMORROW BUT REGIONS PASSING OVER WEST LIMB ARE EXPECTED TO COMPENSATE AS FAR AS RADIO FLUX IS CONCERNED.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 1-3 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/  
IMPORTANCE ONE OR GREATER 100/100/100  
IMPORTANCE TWO OR GREATER 15/15/15  
IMPORTANCE THREE OR GREATER 1/1/1  
PROTON EVENTS 5/5/5

D. THE OTTAWA 10.7 CM FLUX TODAY IS 133. THE PREDICTED VALUES FOR MAY 1-3 ARE 133/133/133.

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 6. TODAY IT WILL BE ABOUT 3. THE PREDICTED AP VALUES FOR MAY 1-3 ARE 6/6/6.