

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 541C ISSUED AT 0500Z

MAY 27 1967

MAJOR FLARES POSSIBLE DURING THE NEXT 12 HOURS. MAGNETIC  
ACTIVITY HAS DECLINED.

BT

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PP KGFF

DE BOU 271100Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 541D ISSUED AT 1100Z

MAY 27 1967

MAJOR FLARES POSSIBLE DURING NEXT 12 HOURS. PROTON EVENT  
NOW VERY MINOR. MAGNETIC ACTIVITY DECLINING.

SATELLITE OBSERVATIONS AT ABOUT 26/0710Z FOUND NEUTRON C  
ONLY 1.4 TIMES NORMAL BACKGROUND. MAX DURING EVENT WAS  
ABOUT 27 TIMES NORMAL BACKGROUND.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 542A ISSUED 1700Z

MAY 27 1967.

MAJOR FLARES POSSIBLE DURING NEXT 12 HOURS. PROTON EVENT  
AND MAGNETIC STORM BOTH ENDED.

A. NO MAJOR FLARES HAVE BEEN REPORTED FOR OVER 24 HOURS. AN IMPORTANCE ONE FLARE OCCURRED AT 0130Z IN THE REGION NOW NEAR N26 W24. THIS REGION CONTINUES TO EXHIBIT A DELTA MAGNETIC CONFIGURATION AND IT HAS BEEN THE SOURCE OF NUMEROUS SUBFLARES IN RECENT HOURS. HYDROGEN FINE STRUCTURE THERE IS INDICATIVE OF HIGHER FLARE POTENTIAL THAN YESTERDAY. THE SUNSPOTS IN THIS REGION ARE DECLINING IN SIZE. THE REGION AT N10 E02 IS NOW THE BRIGHTEST VISIBLE AND ITS ASSOCIATED SPOT GROUP HAS GROWN SLIGHTLY. MINOR ACTIVITY AT N20 E LIMB INDICATES THE RETURN OF A REGION WHICH PRODUCED AN IMPORTANCE 2 FLARE ON MAY 3 BUT WHICH WAS RELATIVELY INACTIVE OTHERWISE. THE SUNSPOT NUMBER AND RADIO FLUX REMAIN HIGH WITH 14 SUNSPOT GROUPS REPORTED TODAY.

B. MAJOR FLARE ACTIVITY MAY RESUME DURING THE NEXT 12-24 HOURS ORIGINATING NEAR THE COMPLEX REGION NEAR N26 W24. MAJOR ACTIVITY IS ALSO POSSIBLE FROM THE BRIGHT REGION NEAR CENTRAL MERIDIAN. OVERALL ACTIVITY INDICES SHOULD SHOW ONLY MINOR CHANGES.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 28-30 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 80/80/80

IMPORTANCE THREE OR GREATER 30/30/30

PROTON EVENTS 30/30/30

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 210.

THE PREDICTED VALUES FOR MAY 28-30 ARE 208/206/202.

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 542B ISSUED AT 2300Z

MAY 27 1967

MAJOR FLARES POSSIBLE DURING NEXT 12 HOURS

A. NO SOLAR EVENTS OF CONSEQUENCE HAVE BEEN REPORTED SINCE THE 1700Z FORECAST. A PLAGE NEAR N23 E75 IS NOW REPORTED AS BRIGHT AND FLUCTUATING. NO SUNSPOTS HAVE BEEN REPORTED AT THIS LOCATION. SURGE ACTIVITY CONTINUES AT N20 E LIMB.

B. THE POTENTIAL FOR MAJOR FLARES REMAINS HIGH IN THE COMPLEX REGION NEAR N26 W28. ACTIVITY IN FOUR REGIONS IN THE NE QUADRANT MAY INCREASE DURING THE FORECAST PERIOD.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 28-30 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 80/80/80

IMPORTANCE THREE OR GREATER 30/30/30

PROTON EVENTS 30/30/30

D. THE OTTAWA 10.7 CM. FLUX TODAY IS 208. THE PREDICTED VALUES FOR MAY 28-30 ARE 206/204/200

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 156. TODAY IT WILL BE ABOUT 15. THE PREDICTED AP RANGES FOR MAY 28-30 ARE 15-30/10-15/6-12

BT