

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 SLIGHT-
LY. MINOR ACTIVITY AT N20 E LIMB INDICATES THE RETURN OF A REGION
WHICH PRODUCED AN IMPORTANCE 2 FLARE ON MAY 3 BUT WHICH WAS RELA-
TIVELY 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