

NNNN

PP KGFF

DE BOU 290500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 543C ISSUED AT 0500Z

MAY 29 1967

MINOR MAGNETIC STORM IN PROGRESS EXPECTED TO INTENSIFY DURING  
THE NEXT 12 HOURS. POLAR CAP ABSORPTION IN PROGRESS DUE TO  
ELECTRONS. MAJOR FLARES POSSIBLE.

BT

NNNNUUUV

P KGFF

DE BOU 291100Z

THIS IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 543D ISSUED AT 1100Z

MAY 29 1967

MODERATE MAGNETIC STORM IN PROGRESS, EXPECTED TO INTENSIFY  
WITHIN 12 HOURS. PROTON EVENT CONTINUES. MAJOR FLARES  
POSSIBLE DURING NEXT 12 HOURS.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 544A ISSUED AT 1700Z  
MAY 29 1967

MAJOR FLARES EXPECTED DURING NEXT 12 HOURS -- PROTON EVENT  
IN PROGRESS -- MAGNETIC STORM IN PROGRESS

- A. NO MAJOR SOLAR FLARES HAVE BEEN REPORTED SINCE THE IMPORTANCE TWO AT 28/0718Z. THE MAJOR FLARE PRODUCING REGION NOW AT N26 W48 HAS UNDERGONE CONSIDERABLE CHANGE OVER THE PAST 48 HOURS. A SIGNIFICANT MAGNETIC DELTA CONFIGURATION IS STILL APPARENTLY PRESENT THERE BUT THE SPOT GROUP CONTAINING THE DELTA HAS NOW DECLINED TO F/500. THIS REGION REMAINS BRIGHT IN HYDROGEN AND IN 9.1 CM RADIO EMISSION. SPOT AND PLAGE FINE STRUCTURE ALSO INDICATED THAT REGIONS LOCATED AT ABOUT N10 W24 AND N20 E04 HAVE INCREASED FLARE POTENTIAL. RECENTLY THEY HAVE PRODUCED ONLY MINOR FLARES. A MAGNETIC STORM IS IN PROGRESS. THE PROTON EVENT CONTINUES.
- B. MAJOR FLARES ARE STILL LIKELY FROM THE N26 W48 REGION DURING THE REMAING THREE DAYS OF ITS DISK PASSAGE. MAJOR FLARE ACTIVITY IS POSSIBLE FROM SEVERAL OTHER VISIBLE REGIONS.
- C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 30-JUNE 1 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/  
IMPORTANCE ONE OR GREATER 100/100/100  
IMPORTANCE TWO OR GREATER 90/90/80  
IMPORTANCE THREE OR GREATER 50/40/40  
PROTON EVENTS 80/70/70
- D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 185. THE PREDICTED VALUES FOR MAY 30A-JUNE 1 ARE 190/185/175

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 544B ISSUED 2300Z

MAY 29 1967.

MAJOR FLARES EXPECTED DURING THE NEXT 12 HOURS. PROTON EVENT  
CONTINUES. MAGNETIC ACTIVITY EXPECTED.

A. NO MAJOR FLARE ACTIVITY HAS BEEN REPORTED FOR THE PAST 38 HOURS. NO SIGNIFICANT CHANGES HAVE BEEN REPORTED SINCE THOSE DISCUSSED IN SDFC 544A. SOLAR RADIO EMISSION AT METRIC AND DECAMETRIC WAVELENGTHS INCREASED BEGINNING ABOUT 2100Z. THE MAGNETIC ACTIVITY OF THE PAST DAY SEEMS TO HAVE ENDED AT ABOUT 1800Z TODAY. THE PROTON EVENT IS STILL IN PROGRESS WITH WEAK ABSORPTION STILL BEING REPORTED FROM ALASKAN RIOMETERS.

B. FLARES ARE EXPECTED FROM THE DELTA REGION NOW AT N26 W48 AND PROTONS ARE STILL POSSIBLE IF FLARES ARE INTIMATELY ASSOCIATED WITH THE DELTA CONFIGURATION. THE SOLAR RADIO EMISSION CURRENTLY OBSERVED IS SIMILAR TO THAT WHICH PRECEDED THE MAJOR FLARES OF THE PAST WEEK. A MAGNETIC STORM IS EXPECTED FROM THE FLARE AT 28/0527Z.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 30-JUNE 1 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 90/80/70

IMPORTANCE THREE OR GREATER 60/40/30

PROTON EVENTS 90/70/50

D. THE OTTAWA 10.7 CM FLUX TODAY IS 183. THE PREDICTED VALUES FOR MAY 30-JUNE 1 ARE 188/183/175.

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 35. TODAY IT WILL BE ABOUT 34. THE PREDICTED AP RANGES FOR MAY 30-JUNE 1 ARE 50-70/25-35/15-20.