

NNNNUUU

PP KGFF

DE BOU 310500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 544C ISSUED AT 0500Z

MAY 31 1967

MAJOR MAGNETIC STORM IS IN PROGRESS. MAJOR FLARES

POSSIBLE DURING NEXT 12 HOURS.

THE MAGNETIC DISTURBANCE WHICH BEGAN AT 30/1429Z ASSUMED MAJOR
PROPORTIONS AT ABOUT 31/0200Z.

BT

NNNNUUUV

PP KGFF

DE BOU 311100Z

THIS IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 544D ISSUED AT 1100Z

MAY 31 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS. THE

MAGNETIC STORM OF 30/1429Z ENDED AT APPROX 31/0700Z.

RT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 546A ISSUED AT 1700Z
MAY 31 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. SOLAR FLARE ACTIVITY CONTINUES AT A LOW LEVEL WITH ONLY SUBFLARES REPORTED. THE REGION WHICH PRODUCED THE MAJOR FLARE ACTIVITY OF THE PAST 12 DAYS IS NOW BEGINNING WEST LIMB PASSAGE. A LARGE MODERATELY BRIGHT REGION NEAR N21 E44 POSSESSES FINE STRUCTURE INDICATING POTENTIAL FOR MAJOR FLARES. THUS FAR IT HAS PRODUCED ONLY MINOR FLARE ACTIVITY. THE MAGNETIC STORM WHICH BEGAN 30/1429Z ENDED AT ABOUT 31/0700Z.

B. MAJOR FLARES ARE POSSIBLE. THE REGION AT NORTH-WEST LIMB CONTINUES TO BE A PROBABLE SOURCE FOR MAJOR FLARE ACTIVITY. BECAUSE OF THE REGION'S VERY LARGE SIZE WEST LIMB PASSAGE OF FLARE PRODUCING PORTIONS WILL NOT BE COMPLETED BEFORE EARLY JUNE 2. MAJOR FLARES ARE POSSIBLE FROM THE REGION AT N21 E44 BUT THEY WILL BECOME MORE LIKELY IF THE PRODUCTION OF MINOR FLARES INCREASES.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD JUNE 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 50/25/20

IMPORTANCE THREE OR GREATER 30/15/10

PROTON EVENTS 40/30/20

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 173. THE PREDICTED VALUES FOR JUNE 1-3 ARE 155/140/125

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 546B ISSUED 2300Z

MAY 31 1967.

MAJOR FLARE PROBABILITY DECREASING

A. SOLAR FLARE ACTIVITY CONTINUES AT THE SUBFLARE LEVEL. THERE HAVE BEEN NO SIGNIFICANT EVENTS REPORTED SINCE SDFC 546A.

ANCHORAGE REPORTS THE PROTON EVENT WHICH BEGAN AT 28/0625

ENDED AT 31/0030Z MAY 1967.

B. THE ACTIVE REGION NOW NEARING WEST LIMB AT N27 AND THE BRIGHT REGION AT N21 E42 BOTH HAVE THE POTENTIAL FOR MAJOR FLARE PRODUCTION DURING THE FORECAST PERIOD.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD JUNE 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 50/25/15

IMPORTANCE THREE OR GREATER 25/15/10

PROTON EVENTS 30/20/20

D. THE OTTAWA 10.7 CM FLUX TODAY IS 171. THE PREDICTED VALUES FOR JUNE 1-3 ARE 155/145/135.

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 37. TODAY IT WILL BE ABOUT 33. THE PREDICTED AP RANGES FOR JUNE 1-3 ARE UNDER 10 FOR EACH OF THE NEXT THREE DAYS.

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