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PP KGFF

DE BOU 300500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 544C ISSUED AT 0500Z

MAY 30 1967

MAGNETIC STORM EXPECTED AND MAJOR FLARES POSSIBLE DURING NEXT
12 HOURS. PROTON EVENT CONTINUES TO DIMINISH AND SHOULD END
WITHIN 6 HOURS.

BT

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PP KGFF

DE BOU 301100Z

THIS IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 544D ISSUED AT 1100Z

MAY 30 1967

MAJOR FLARES AND A MAGNETIC STORM ARE EXPECTED DURING
THE NEXT 12 HOURS.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO,
SPACE DISTURBANCE FORECAST NUMBER 545A ISSUED AT 1700Z
MAY 30 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. NO MAJOR FLARES HAVE BEEN REPORTED SINCE 28/0718Z. ONLY
MINOR FLARE ACTIVITY IN THE REGION NOW NEAR N27W62 SEEMS
TO HAVE BEEN ASSOCIATED WITH THE INCREASE IN METRIC AND
DECAMETRIC RADIO NOISE DISCUSSED IN SDF 544B. ALL THE
VISIBLE REGIONS NOW APPEAR TO BE STABLE OR DECLINING
JUDGING FROM THE SPOT PLAGE AND 9.1 CM INFORMATION AVAIL-
ABLE. THE PROTON EVENT IS NOW GREATLY DIMINISHED AND MAY
BE OVER. MAGNETIC ACTIVITY INCREASED ABRUPTLY AT 1429Z
AND HAS SINCE BEEN MODERATELY DISTURBED.

B. THE PROBABILITY FOR MAJOR FLARES IS NOW REDUCED ALTHOUGH
SUCH FLARES ARE STILL LIKELY FROM THE REGION AT N27W62.
SEVERAL OF THE OTHER REGIONS APPEAR CAPABLE OF PRODUCING
MAJOR FLARES.

. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD MAY 31-JUNE 02 ARE AS FOLLOWS/FIGURES ARE
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 75/60/30

IMPORTANCE THREE OR GREATER 50/30/10

PROTON EVENTS 60/50/30

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 176.
THE PREDICTED VALUES FOR MAY 31-JUNE 02 ARE 170/155/140

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 545B ISSUED AT 2300Z

MAY 30 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS. THE
MAGNETIC STORM SHOULD INCREASE IN SEVERITY.

A. NO FLARES LARGER THAN SUBFLARES HAVE BEEN REPORTED TODAY.
SUBFLARES WERE OBSERVED IN THE REGIONS NEAR N27W66 S17E17
N21E53 AND N09W42. INFORMATION OF THE VISIBLE SUN IS LIMITED
DUE TO WEATHER CONDITIONS AT MANY OBSERVATORIES HOWEVER SOLAR
RADIO EMISSION AND IONOSPHERIC XRAY SENSORS HAVE NOT INDICATED
ANY MAJOR FLARE EVENTS. FROM THE INFORMATION AVAILABLE IT
APPEARS THAT THE REGION NEAR N27W66 IS DEFINITELY DECLINING
AND THE OTHER REGIONS ARE STABLE OR DECLINING. THE MAGNETIC
STORM WHICH BEGAN AT 30/1429Z HAS INCREASED IN INTENSITY.

B. MAJOR FLARE ACTIVITY IS EXPECTED FROM THE N27W66 REGION
PRIOR TO ITS WEST LIMB PASSAGE. SEVERAL OF THE OTHER REGIONS
APPEAR CAPABLE OF PRODUCING MAJOR FLARES. THE MAGNETIC
STORM IS EXPECTED TO INCREASE IN SEVERITY DURING THE NEXT
12 HOURS.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD MAY 31-JUNE 2 ARE AS FOLLOWS /FIGURES ARE
PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100
IMPORTANCE TWO OR GREATER 60/50/25
IMPORTANCE THREE OR GREATER 40/30/10
PROTON EVENTS 50/40/25

D. THE OTTAWA 10.7 CM FLUX TODAY IS 173. THE PREDICTED
VALUES FOR MAY 31-JUNE 2 ARE 160/145/125

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 35.
TODAY IT WILL BE ABOUT 38. THE PREDICTED AP RANGES FOR
MAY 31-JUNE 2 ARE 30-40/15-25/10-16