

NNNNUUU

PP KGFF

DE BOU 1230500

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 517C ISSUED 0500Z

MAY 3 1967

NO SIGNIFICANT FLARE ACTIVITY IS EXPECTED

BT

NNNNMUUV

PP KGFF

DE BOU 030500Z

THIS IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 517D ISSUED 1100Z

MAY 3 1967

ONLY MINOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

THE MAGNETIC DISTURBANCE WHICH BEGAN AT 1907Z MAY 1

ATTAINED MODERATE MAGSTORM PROPORTIONS AS OF 0000Z, MAY

3 AND IS STILL IN PROGRESS.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 518A ISSUED AT 1700Z

~~MAY~~
APRIL 3 1967

A. A BRIGHT IMPORTANCE TWO CMMA POSSIBLE IMPORTANCE THREE CMMA FLARE BEGAN AT ABOUT 1535Z TODAY IN THE REGION NEAR N20 E50. THE FLARE WAS ACCOMPANIED BY MODERATELY STRONG RADIO EMISSION INCLUDING TYPE IV CONTINUUM CMMA AND MODERATE IONOSPHERIC EFFECTS. THE RADIO EMISSION WAS OBSERVED IN FREQUENCIES RANGING FROM 10 GHZ DOWN TO LESS THAN 20 MHZ. THE SPOT GROUP AT N20 E49 IS A CLASS J WITH AREA ABOUT 210 MILLIONTHS. IT IS OF SIMPLE MAGNETIC STRUCTURE. THE PLAGE THERE IS ONLY MODERATELY BRIGHT. SEVERAL MINOR FLARES HAVE BEEN OBSERVED IN THE REGION NOW NEAR S20 E02. THE SPOT GROUP THERE IS OF SMALLER TOTAL AREA THAN YESTERDAY HOWEVER IT IS MAGNETICALLY COMPLEX AND IS MORE INTERESTING STRUCTURALLY. 9.1 CM EMISSION HAS INCREASED SUBSTANTIALLY FROM THIS REGION. THE MINOR MAGNETIC DISTURBANCE WHICH BEGAN AT 01/1907Z DECLINED THROUGHOUT THE 2ND BUT INCREASED TO ~~STORM~~ PROPORTIONS AFTER 0100Z TODAY.

B. A PROTON EVENT IS POSSIBLE DUE TO THE 1535Z FLARE. MANY FEATURES OF THE FLARE ARE INDICATIVE OF PROTONS HOWEVER AT THIS TIME THE FLARE DOES NOT COVER THE SPOT UMBRAE CMMA AND THE SPOT IS OF SIMPLE MAGNETIC CONFIGURATION. INFREQUENT CONTINUED MAJOR FLARES ARE LIKELY FROM THE REGION AT N20 E50 AND FLARES AS LARGE AS IMPORTANCE TWO ARE POSSIBLE FROM THE S20 E02 REGION. THE MAGNETIC A-INDEX TODAY IS ESTIMATED TO BE NEAR 30 DUE TO THE ESENT STORM.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 4-6 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100
IMPORTANCE TWO OR GREATER 50/40/30
IMPORTANCE THREE OR GREATER 25/15/10
PROTON EVENTS 50/30/10

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 124. THE PREDICTED VALUES FOR MAY 4-6 ARE 124/122/122

BT

DE BOU 032300Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 518B ISSUED AT 2300Z
MAY 3 1967

A. A FLARE AT ABOUT 1720Z IN THE REGION NEAR N20 E46 HAS BEEN CALLED BOTH IMPORTANCE ONE AND TWO. NO FURTHER INFORMATION HAS BEEN LEARNED OF THE 1535Z FLARE WHICH WAS DISCUSSED IN SDF 518A. THERE HAVE BEEN NO REPORTS OF PROTONS EITHER FROM GROUND BASED OR FROM SPACE OBSERVING SYSTEMS. THE EXISTING MAGNETIC ACTIVITY MAY OBSCURE GROUND DETECTION OF PROTONS. THE MAGNETIC DISTURBANCE PREVIOUSLY DISCUSSED STILL CONTINUES AND SHOWS NO SIGN OF ABATING. OTTAWA FAILED TO OBTAIN A 1700Z 10 CM RADIO FLUX MEASUREMENT EVIDENTLY BECAUSE OF ENHANCED RADIATION DUE TO THE FLARE ACTIVITY.

B. OCCASSIONAL MAJOR FLARES ARE POSSIBLE FROM THE REGION AT N20 E46 AND TO A LESSER EXTENT FROM S20 W04. PROTONS FROM THE 1535Z FLARE CONTINUE TO BE POSSIBLE BUT ARE NOW UNLIKELY. MAGNETIC ACTIVITY SHOULD DECLINE DURING THE NEXT 12 HOURS.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 4-6 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100
IMPORTANCE TWO OR GREATER 40/30/20
IMPORTANCE THREE OR GREATER 20/15/5
PROTON EVENTS 20/10/5

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 124. THE PREDICTED VALUES FOR MAY 4-6 ARE 126/124/122

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 17. TODAY IT WILL BE ABOUT 52. THE PREDICTED AP VALUES FOR MAY 4-6 ARE 20/10/6