

NNNNUUUV

PP KGFF

DE BOU 1390500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 533C ISSUED AT 0500Z

MAY 19, 1967

MAJOR FLARES ARE POSSIBLE BUT NOT EXPECTED DURING THE NEXT 12 H

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PP KGFF

DE BOU 191100Z

THIS IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 533D ISSUED AT 1100Z

MAY 19 1967

MAJOR FLARE ACTIVITY IS POSSIBLE BUT NOT LIKELY DURING THE NEXT
12 HOURS.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 534Z ISSUED AT 1700Z
MAY 19 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. A BRIGHT IMPORTANCE TWO FLARE BEGAN AT ABOUT 1520Z NEAR N26E70. IT WAS CONFIRMED BY THREE OBSERVATORIES. THE FLARE PRODUCED MODERATELY INTENSE RADIO EMISSION INCLUDING TYPE FOUR IN THE FREQUENCY RANGE 9-41 MHZ AND A COMPLEX BURST AT 10CM. THE TYPE FOUR WAS STILL IN PROGRESS AT 1700Z. MODERATELY STRONG IONOSPHERICALLY DETECTED XRAY EFFECTS ALSO ACCOMPANIED THE FLARE. AN IMPORTANCE ONE FLARE REPORTEDLY OCCURRED AT THE SAME TIME IN A REGION LOCATED AT ABOUT N24E75. THE SPOT GROUP AT N22E65 APPEARS TO BE DEVELOPING AND IS D/150. IT IS ASSOCIATED WITH A MODERATELY LARGE AND BRIGHT PLAGE. AN ESTIMATED C/110 SPOT GROUP IS NOW VISIBLE IN THE SOMEWHAT FAINTER REGION NEAR N24E75. THESE REGIONS HAVE INCREASED SIGNIFICANTLY IN 9.1 CM EMISSION DUE PROBABLY TO GROWTH AS WELL AS TO FURTHER ROTATION ONTO THE DISK. THE MODERATELY LARGE AND BRIGHT REGION NEAR S14E25 CONTAINS DEVELOPING SPOT GROUPS WHICH ARE NOW D/120 AND C/20.

B. CONTINUED OCCASSIONAL MAJOR FLARE ACTIVITY IS EXPECTED FROM THE REGIONS NEAR THE NORTHEAST LIMB. THE REGION NEAR S14E25 IS A POTENTIAL MAJOR FLARE PRODUCER BUT ONLY A FEW MINOR FLARES HAVE BEEN PRODUCED THERE SO FAR.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 20-22 ARE AS FOLLOWS/FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 60/65/65

IMPORTANCE THREE OR GREATER 10/15/15

PROTON EVENTS 20/25/25

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 135.

THE PREDICTED VALUES FOR MAY 20-22 ARE 140/145/150

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 534B ISSUED AT 2300Z
MAY 19 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

A. NO ADDITIONAL MAJOR FLARES HAVE BEEN REPORTED SINCE THE 1520Z IMPORTANCE TWO BRIGHT DISCUSSED IN SDF 534A. SEVERAL MINOR FLARES HAVE BEEN OBSERVED IN THE N22 E62 REGION AS WELL AS A FEW IN THE REGION NEAR S14 W35. THE SPOT GROUP AT N22 E62 IS NOW REPORTED AS D/230 AND THE GROUP AT ABOUT N24 E73 AS ABOUT D/120. A J/180 SPOT GROUP WAS OBSERVED AT S17 E88 AT 19.8 MAY. 3.2 MM OBSERVATIONS IDENTIFY A POSSIBLE MAJOR FLARE SOURCE NEAR N21 W02 HOWEVER THIS IS NOT SUPPORTED BY OPTICAL DATA.

B. OCCASSIONAL MAJOR FLARES ARE EXPECTED FROM THE REGIONS NEAR N22 E62 AND N24 E73. OTTAWA 10 CM FLUX SHOULD CONTINUE TO INCREASE AS THE EASTERN REGIONS DEVELOP AND ROTATE MORE FULLY ONTO THE DISK.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 20-22 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100
IMPORTANCE TWO OR GREATER 60/65/65
IMPORTANCE THREE OR GREATER 10/15/15
PROTON EVENTS 10/15/15

D. THE OTTAWA 10.7 CM FLUX TODAY IS 135. THE PREDICTED VALUES FOR MAY 20-22 ARE 142/148/153

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 9. TODAY IT WILL BE ABOUT 9. AP RANGES ARE PREDICTED TO BE 10-15 25-40 AND 15-25 FOR MAY 20-22