

NNNNUUU

PP KGFF

DE BOU 200500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 534C ISSUED AT 0500Z

MAY 20 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

BT

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PP KGFF

DE BOU 201100Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 534D ISSUED AT 1100Z

MAY 20 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 535A ISSUED AT 1700Z
MAY 20 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

A. AN IMPORTANCE ONE BRIGHT FLARE OCCURRED TODAY AT 1510Z
AT N23 E57. IT WAS ACCOMPANIED BY TYPE FOUR RADIO EMISSION
AT THE FREQUENCY 10-41 MHZ WHICH LASTED FOR 68 MINUTES AND
A TENFLARE REPORTED BY OTTAWA. THE SPOT GROUP HAS GROWN
TO A CLASS/AREA D/200. THIS REGION PRODUCED ANOTHER IMPOR-
TANCE ONE FLARE AT 1056Z TODAY BUT IT WAS NOT ACCOMPANIED
BY IONOSPHERIC OR RADIO EFFECTS. THE SPOT GROUP AT N25 E63
HAS GROWN SIGNIFICANTLY SINCE YESTERDAY AND IS NOW CLASS/AREA
F/510. IT HAS NOT PRODUCED ANY ACTIVITY TODAY. ALL OTHER
REGIONS APPEAR STABLE.

B. CONTINUED IMPORTANCE ONE OR LARGER FLARES CAN BE EXPECTED
FROM THE REGION AT N23 E51. THE REGION AT N25 E63 ALSO APPEARS
CAPABLE OF MAJOR FLARES BECAUSE OF ITS AREA AND SPOT CONFIGUR-
ATION.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD MAY 21-23 ARE AS FOLLOWS /FIGURES ARE
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 65/70/70

IMPORTANCE THREE OR GREATER 15/20/20

PROTON EVENTS 20/25/25

. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 142.
THE PREDICTED VALUES FOR MAY 21-23 ARE 148/150/154

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 535B ISSUED AT 2300Z
MAY 20 1967

MAJOR FLARES ARE POSSIBLE DURING NEXT 12 HOURS

A. ONLY ONE ADDITIONAL FLARE HAS BEEN REPORTED SINCE 1700Z
TODAY. IT WAS AN IMPORTANCE ONE AT 2000Z FROM THE REGION
AT N23 E52. THE FLARE WAS NOT ACCOMPANIED BY RADIO OR IONO-
SPHERIC EVENTS. THE SPOT GROUP AT N23 E52 HAS A BETA
GAMMA MAGNETIC CONFIGURATION. THE SPOT GROUP AT N25 E63 IS
ALSO OF BETA GAMMA CONFIGURATION AND THE PLAGE WHICH CON-
TAINS BOTH OF THESE SPOT GROUPS IS VERY LARGE, COMPACT AND
BRIGHT. THE REGION AT N23 W12 APPEARS CAPABLE OF MAJOR
FLARES AS OBSERVED AT 3.2 MM BUT THIS IS NOT CONFIRMED BY
OPTICAL OBSERVATIONS.

B. IMPORTANCE ONE FLARES ARE STILL EXPECTED FROM THE REGIONS
AT N23 E52 AND N25 E63 AND MAJOR FLARES ARE POSSIBLE FROM
BOTH SPOT GROUPS.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD MAY 21-23 ARE AS FOLLOWS /FIGURES ARE
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 65/65/65

IMPORTANCE THREE OR GREATER 15/15/15

PROTON EVENTS 20/20/20

D. THE OTTAWA 10.7 CM FLUX TODAY IS 143. THE PREDICTED
VALUES FOR MAY 21-23 ARE 148/152/156

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 9.
TODAY IT WILL BE ABOUT 5. AP RANGES ARE PREDICTED TO BE
20-30 10-15 AND 10-15 FOR MAY 21-23

BT