

NNNNUUUV

PP KGFF

DE BOU 260500Z

HERE IS THE 0500Z FORECAST FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 540C ISSUED AT 0500Z .

MAY 26, 1967

SEVERE MAGNETIC STORM WHICH BEGAN AT 25/1019Z IS STILL IN
PROGRESS. POLAR CAP ABSORPTION CONTINUES. DURING THE NEXT
12 HRS MAJOR FLARES ARE POSSIBLE.

A LARGE IMPORTANCE TWO NORMAL FLARE FROM N10E20 WAS FIRST O
OBSERVED BY HAWAII AT 26/0205Z. AN SPA, S-SWF, AND TYPE FOUR
RADIO BURST AT DECIMETER WAVELENGTHS ACCOMPANIED THE EVENT.

AURORA VISIBLE AT FORT BELVOIR. VIRGINIA.

BT

NNNNUUUV

PP KGFF

DE BOU 261100Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO.

SPACE DISTURBANCE FORECAST NUMBER 540D ISSUED 1100Z

MAY 26 1967

THE PROTON EVENT CONTINUES, AS WELL AS THE VERY SEVERE
MAGNETIC STORM. DURING THE NEXT 12 HOURS, MAJOR FLARES
ARE LIKELY.

THE IMPORTANCE TWO NORMAL FLARE AT 26/0205Z HAS BEEN
RECLASSIFIED AS IMPORTANCE THREE NORMAL. THE FLARE DID NOT OCCUR
WITHIN THE MAJOR DELTA CONFIGURATION BUT MAY ADD TO THE PRESENT
PROTON EVENT.

AURORA IS REPORTED AS FAR SOUTH AS NEW MEXICO.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 541A ISSUED AT 1700Z
MAY 26 1967

MAJOR FLARES EXPECTED PROTON EVENT IN PROGRESS

A. AN IMPORTANCE TWO FLARE WAS REPORTED BY THREE OBSERVATORIES AT ABOUT 0205Z NEAR N12 E15. THIS IS THE FIRST MAJOR FLARE IN THIS REGION. SOME MINOR SUNSPOT GROWTH IS OCCURRING HERE. IMPORTANCE SUNSPOT AND PLAGE GROWTH IS OCCURRING NEAR N26 W23 CMMA WEST OF THE SOURCE OF PREVIOUS RECENT MAJOR FLARES. THE SPOTS NEAR N26 W08 CONTINUE TO EXHIBIT COMPLEX MAGNETIC FIELD ARRANGEMENT BUT WITH A SOMEWHAT LOWER FIELD GRADIENT IN THE DELTA CONFIGURATION. IMPORTANCE ONE FLARES OCCURRED IN THIS COMPLEX REGION AT 0242Z 1240Z AND BEFORE 1600Z. THE LAST FLARE MAY BE IMPORTANCE TWO AND PROBABLY IS RELATED TO A 10 CM BURST AT 1538Z. SOME REGION GROWTH IS REPORTED NEAR S17 W06 AND N20 E43.

B. MAJOR FLARES ARE EXPECTED AT A LESS FREQUENT RATE FROM THE COMPLEX NW REGIONS. SOME INCREASE IN SMALLER FLARE ACTIVITY MAY OCCUR IN THE SMALL DEVELOPING REGIONS SOUTH CENTRAL AND NE AND IN A LARGE REGION NEAR SE LIMB.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 27-29 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 85/85/85

IMPORTANCE THREE OR GREATER 40/40/40

PROTON EVENTS 95/80/50

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 200.
THE PREDICTED VALUES FOR MAY 27-29 ARE 195/190/185

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 541B ISSUED 2300Z
MAY 26 1967.

MAJOR FLARES EXPECTED AT REDUCED FREQUENCY DURING THE
NEXT 12 HOURS. MAGNETIC ACTIVITY SHOULD CONTINUE.

A. NO MAJOR FLARE ACTIVITY HAS BEEN REPORTED SINCE THE
FLARES DISCUSSED IN SDF 541A. THE EASTERN PORTION AT ABOUT
N26 W09 OF THE VERY LARGE REGION APPEARED TO BE DECAYING BUT
NOW FINE STRUCTURE THERE IS AGAIN BECOMING INTERESTING. THE
WESTERN PORTION OF THE REGION AT ABOUT N26 W15 CONTAINS A
DELTA CONFIGURATION AND IS STILL VERY BRIGHT IN HYDROGEN AND
CALCIUM. SIGNIFICANT GROWTH HAS OCCURRED NEAR N26 W31.

GROUND SENSORS WHICH MONITORED THE PROTON EVENT HAVE RETURNED
TO NORMAL. MAGNETIC ACTIVITY WAS GREAT FROM 25/1234Z TO PAST
26/0900Z BUT HAS BEEN CONSIDERABLY QUIETER SINCE THEN.

B. MAJOR FLARES ARE EXPECTED AT A LESS FREQUENT RATE COMPARED
TO EARLIER THIS WEEK. SMALL FLARE ACTIVITY MAY BECOME DISTRI-
BUTED AMONG SEVERAL SMALL DEVELOPING REGIONS IN ADDITION TO THE
COMPLEX NW REGION. FLARES ASSOCIATED WITH THE DELTA CONFIGURA-
TION ARE LIKELY TO PRODUCE PROTONS. MAGNETIC ACTIVITY SHOULD
INTENSIFY AFTER 27/0000Z LASTING FOR ABOUT 12 HOURS.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD MAY 27-29 ARE AS FOLLOWS /FIGURES ARE
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 85/80/80

IMPORTANCE THREE OR GREATER 40/40/40

PROTON EVENTS 40/40/40

D. THE OTTAWA 10.7 CM FLUX TODAY IS 214. THE PREDICTED
VALUES FOR MAY 27-29 ARE 220/220/220.

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 112.
TODAY IT WILL BE ABOUT 150. THE PREDICTED AP VALUES FOR
MAY 27-29 ARE 60-80/20-40/15-25.