

NNNNUUU

PP KGFF

DE BOU 240500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 538C ISSUED AT 0500Z

MAY 24 1967

PROTON EVENT EXPECTED FROM IMP 3B FLARE AT 1836Z AND IMP 2B
FLARE AT 1936Z. MAJOR FLARES ARE EXPECTED DURING THE NEXT 12
HOURS.

BT

NNNNUUUV

PP KGFF

DE BOU 241100Z

THIS IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 538D ISSUED AT 1100Z

MAY 24 1967

MINOR PROTON EVENT IN PROGRESS. MAJOR FLARES EXPECTED
DURING THE NEXT 12 HOURS.

ANCHORAGE REPORTS A MINOR PCA BEGINNING ABOUT 0310Z WITH
MAXIMUM RIOMETER ABSORPTION OF 1.4DB AT FT. YUKON. THIS WAS
CONFIRMED BY SHEPPARDS BAY RIOMETER ABSORPTION OF ABOUT 1.0DB.
A MAGNETIC STORM IS EXPECTED WITHIN THE NEXT 36 HOURS. NO
MAJOR FLARES HAVE BEEN REPORTED SINCE 23/2045Z AS PRESENT LULL
CONTINUES.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 439A ISSUED AT 1700Z
MAY 24 1967

MAJOR FLARES EXPECTED DURING THE NEXT 12 HOURS

A. NUMEROUS SMALL FLARES HAVE OCCURRED FOLLOWING THE MAJOR FLARES WHICH BEGAN BEFORE 23/1940Z. THESE INCLUDE AN IMPORTANCE TWO AT ABOUT 23/2045Z AND IMPORTANCE ONES AT 24/0312 AND 0833Z. CONSIDERABLE CHANGE OCCURRED IN THE FINE STRUCTURE OF THE REGION NOW CENTERED AT ABOUT N25E10 FOLLOWING YESTERDAYS MAJOR ACTIVITY. THE SUNSPOT GROUP STILL HAS A STRAINED APPEARANCE AND POSSESSES STRONG DELTA CONFIGURATIONS. SATELLITE SYSTEMS DETECTED PROTONS FROM YESTERDAYS ACTIVITY BEGINNING AT 23/1925Z. GROUND BASED DETECTORS CONFIRM THE PRESENCE OF PROTONS. A LARGE MODERATELY BRIGHT REGION AT THE NORTHEAST LIMB IS EXHIBITING MINOR ACTIVITY. IT CONTAINS A SPOT GROUP ESTIMATED TO BE D/200.

B. CONTINUED MAJOR FLARE ACTIVITY FROM THE NORTHCENTRAL REGION IS HIGHLY PROBABLE. THE APPEARANCE OF OTHER REGIONS ON THE SUN INDICATE THAT THE INCREASING ACTIVITY IS GLOBAL IN CHARACTER. A MAGNETIC STORM IS EXPECTED WITHIN THE NEXT 36 HOURS.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MAY 25-27 ARE AS FOLLOWS/ FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100 /
IMPORTANCE TWO OR GREATER 90/90/90
IMPORTANCE THREE OR GREATER 60/60/60
PROTON EVENTS 100/80/60

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 185
THE PREDICTED VALUES FOR MAY 25-27 ARE 190/195/200

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BQULDER COLO
SPACE DISTURBANCE FORECAST NUMBER 539B ISSUED 2300Z
MAY 24 1967.

MINOR SOLAR PROTON EVENT INPROGRESS. MAJOR FLARES ARE
LIKELY WITHIN THE NEXT 12 HOURS.

A. A BRIGHT IMPORTANCE ONE FLARE OCCURRED AT 1805Z LOCATED
AT N23 AND CENTRAL MERIDIAN. THIS IS SLIGHTLY WEST OF THE SOURCE
OF THE MAJOR EVENTS OF YESTERDAY. THE RADIO AND IONOSPHERIC
EFFECTS WERE MINOR COMPARED TO THOSE ACCOMPANYING YESTERDAYS
EVENTS. THE SUNSPOTS AND PLAGE AT N26 E15 REMAIN CAPABLE OF
FURTHER MAJOR FLARES. SIGNIFICANT GROWTH IS OCCURRING IN NEW
SUNSPOT GROUPS AT N12 W01 S21 E26 AND N11 E40. TWO SMALL SPOT
GROUPS ARE NOW VISIBLE IN A LARGE BRIGHT PLAGE NEAR N22 E80.
THIS REGION HAS BEEN SLIGHTLY ACTIVE. A TINY SPOT AT S22 E66
IS ACCOMPANIED BY A SMALL BUT BRILLIANT PLAGE. THE SMALL PROTON
EVENT APPEARS TO HAVE REACHED MAXIMUM AT 1924Z TODAY JUDGING
FROM THE SHEPHERDS BAY CANADA 30 AND 50 MHZ RIOMETERS.

B. OCCASSIONAL MAJOR FLARES ARE EXPECTED FROM THE NORTH CENTRAL
REGION FOR THE REMAINDER OF ITS DISK PASSAGE. SOME OF THESE MAY
PRODUCE PROTONS. A GENERAL INCREASE IN SOLAR ACTIVITY INDICES
IS EXPECTED FROM THE GROWTH OF SEVERAL REGIONS AND THE RETURN OF
A REGION AT SE LIMB TOMORROW.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD MAY 25-27 ARE AS FOLLOWS /FIGURES ARE
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 90/90/90

IMPORTANCE THREE OR GREATER 60/60/60

PROTON EVENTS 95/70/50

D. THE OTTAWA 10.7 CM FLUX TODAY IS 190. THE PREDICTED
VALUES FOR MAY 25-27 -43 196/202/206.

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 14.
TODAY IT WILL BE ABOUT 10. THE PREDICTED AP ^{RANGES} ~~VALUES~~ FOR
MAY 25-27 ARE 50-70/30-50/8-15.

BT