

MSC
PP KGFF
DE BOU 040400Z
THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 435A ISSUED 0400Z 04 NOVEMBER 1969
CLASS C FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY REMAINS AT A LOW LEVEL. SURGE ACTIVITY AT NE08
INDICATES THAT THE REGION ROTATING ON THE DISK IS CAPABLE OF GREATER
ACTIVITY. THE REGION APPEARING AT N22 DOES HAVE A LARGE SPOT. THE
REGION APPEARING AT N10 HAS BRIGHT PLAGE. NO TRUE EVALUATION OF
THESE REGIONS IS POSSIBLE AT THIS TIME. FURTHER SCALING AND EVALUA-
TION OF ATS-1 DATA INDICATES START OF PROTON EVENT ON 21-70 MEV
DETECTOR AS 02/1045Z. THE GEOMAGNETIC FIELD IS DISTURBED.

B. THE REGION APPEARING ON EL N10 SHOULD BE WATCHED FOR CLASS M
EVENTS. THE PCA IS DECLINING AND SHOULD END IN ABOUT 12 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 04/0400Z ENDING 07/0400Z.

CLASS M OR GREATER 35/35/35

CLASS X 05/05/05

PROTON EVENTS 05/05/05
D. OTTAWA 10.7 CM FLUX 03/1700Z AND 2000Z WERE 129 AND 130
RESPECTIVELY.

SOLTERWARN

BT

DE BOU 041720Z

HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 435B ISSUED 1700Z 04 NOV 1969

CLASS M FLARES ARE PROBABLE DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS INCREASED WITH TWO CLASS M EVENTS BEING
OBSERVED AT 03/2140Z AT N08E88 (IMP SN) AND AT 04/0408Z AT
N24E78 (IMP 1B). THE N23E75 REGION CONSISTS OF A LARGE
J-TYPE SPOT GROUP WITH AN AREA OF 310 MILLIONTHS. THE N08E76
REGION HAS A BRIGHT PLAGE THAT EXTENDS OVER THE EAST LIMB
WITH GOOD INDICATIONS THAT MORE SPOTS WILL ROTATE OVER.

ALTHOUGH THESE REGIONS ARE QUITE SMALL, MODERATE X-RAY
PRODUCTION HAS OCCURRED THERE. THE REMAINING REGIONS ARE SMALL
& STABLE. PROTON FLUXES AT SATELLITE ALTITUDES CONTINUE THEIR
SLOW DECLINE WITH THE THULE 30 MHZ RIOMETER SHOWING A 1.4 DB
ABSORPTION AT 04/1600Z. THE GEOMAGNETIC FIELD IS CURRENTLY QUIET.

B. CLASS M ACTIVITY IS EXPECTED TO INCREASE FROM THE N24E78 AND
N08E88 REGIONS DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 04/1700Z ENDING 07/1700Z.

CLASS M OR GREATER 45/50/55

CLASS X 05/10/10

PROTON EVENTS 5/10/10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 134. PREDICTED 148/153/168.

E. MAGNETIC A-FREDERICKSBURG FOR 03 NOV WAS 15. FOR 04 NOV ABOUT
08 PREDICTED AP FOR 5-7 NOV, 15/15/10.

F. KP ESTIMATED FOR 1200-1500Z WAS 1. KP FORECAST FOR NEXT 24
HOURS PER KP 15.3; 2/2/2/2/1/1/1.

SOLTERWARN

BT