

NNNN0350

NNNN

KMSC

HAUS BOU 220400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 453A ISSUED 0400Z 22 NOVEMBER 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. A CLASS X FLARE OPTICAL CLASSIFICATION 2B WAS OBSERVED 21/2121Z AT N08W01. SATELLITE AND GROUND BASED DETECTORS ARE AT OR NEAR BACKGROUND LEVELS INDICATING NO PROTON EMISSION FROM THIS FLARE.

A CLASS M FLARE OPTICAL CLASSIFICATION SB WAS OBSERVED 21/1728Z AT N14W04. THESE TWO REGIONS WHICH HAVE JUST PASSED CENTRAL MERIDIAN CONTAIN SEVERAL DELTA CONFIGURATIONS. THE 9.1 CM BRIGHTNESS TEMPERATURE FOR THE TWO REGIONS MENTIONED ABOVE HAS NOW REACHED 1 050 000 DEGREES KELVIN. THIS IS THE HIGHEST IT HAS BEEN DURING ITS PASSAGE. ALL OTHER REGIONS ON THE DISK ARE QUIET. THE GEOMAGNETIC FIELD REMAINS QUIET.

B. MAJOR FLARES ARE EXPECTED FROM THE REGIONS N13W01 AND N07W10.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 NOV/0400Z ENDING 25 NOV/0400Z.

CLASS M OR GREATER 100/100/100

CLASS X 65/65/65

PROTON EVENTS 40/40/40

D. OTTAWA 10.7 CM FLUX 21/1700Z AND 2000Z WERE 203 AND 202 RESPECTIVELY.

SOLTERWARN

SPAN

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NNNN0400

NNNN1744

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KMSC

HAUS BOU 221734Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 453B ISSUED 1700Z 22 NOV 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 11 HOURS.

A. CLASS M FLARES WERE OBSERVED FROM THE N07W18 REGION BEGINNING 21/2303Z 22/0237Z 22/0324Z AND 22/0824Z. CONSIDERABLE TENDENCY TOWARD BREAKUP IS REPORTED IN BOTH N07W18 AND N13W11 REGIONS. NEW SPOTS ARE APPARENT AT BOTH S03E86 AND S14E75. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED BUT PROTON FLUXES ARE REPORTED NEAR BACKGROUND. PIONEERS 6 AND 7 INDICATE SOME INCREASE IN LOWER ENERGY PROTON DENSITIES BEGINNING BEFORE 21/1900Z. SINCE COVERAGE BEFORE THIS TIME WAS UNAVAILABLE DUE TO DEEP SPACE NET COMMITMENTS IT IS IMPOSSIBLE TO ASCERTAIN WHETHER THIS INCREASE WAS A RESULT OF THE 13/1636Z FLARE.

B. DISORGANIZATION OF NW REGIONS INDICATES MAJOR FLARE PROBABILITIES WILL DRASTICALLY DECREASE IN 48-72 HOURS. CURRENT INSTABILITIES DECREASE MAJOR FLARE PROBABILITY ONLY SLIGHTLY IN NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 NOV/1700Z ENDING 24 NOV/1700Z.

CLASS M OR GREATER	90/90/90
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CLASS X	60/55/45
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PROTON EVENTS	60/55/45
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D. OTTAWA 10.7 CM FLUX TODAY AT 1400Z WAS 212. PREDICTED 215/215/200.

E. MAGNETIC A-FREDERICKSBURG FOR 21 NOV WAS 01. FOR 22 NOV ABOUT 08.

PREDICTED AP FOR 24-26 NOV 12/08/08.

SOLTERWARN

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