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KMSC

HAUS BOU 240400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 4558 ISSUED 0400Z 24 NOVEMBER 1969

CLASS M AND CLASS X FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. THE FLARE PROBABILITY REMAINS HIGH AND ENERGETIC FLARES HAVE BEEN OBSERVED DURING THE PAST 24 HOURS. CLASS M AND CLASS X FLARES HAVE BEEN OBSERVED IN THE NORTHWEST REGIONS. THESE REGIONS REMAIN HIGH IN 9.1 CM BRIGHTNESS TEMPERATURE. BOTH REGIONS REMAIN COMPLEX IN STRUCTURE AND BRIGHT AND FLUCTUATING IN H-ALPHA. BSLS HAVE BEEN FREQUENT FROM APPROXIMATELY SE10 TO SE15 THIS AFTERNOON INDICATING A RETURNING REGION. ALL OTHER REGIONS ON THE DISK REMAIN QUIET. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. MAJOR FLARES WILL CONTINUE FROM THE REGIONS N12W29 AND N07W37.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24 NOV/0400Z ENDING 27 NOV/0400Z.

CLASS M OR GREATER 100/100/100

CLASS X 70/60/60

PROTON EVENTS 55/55/45

D. OTTAWA 10.7 CM FLUX 23/1700Z AND 2000Z WERE 215 AND 214 RESPECTIVELY.

SOLTERWARN

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NNNN1720

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KMSC

HAUS BOU 241715Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 455B ISSUED 1700Z 24 NOV 1969

CLASS M AND X FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. A CLASS X (IMP 2B) FLARE WAS OBSERVED AT 24/0906Z AT N19W32. THIS FLARE PRODUCED A 2 300 F.U. RADIO BURST AT 10 CM A VERY LARGE X-RAY BURST STRONG IMPORTANCE 3 SID AND PROTON EMISSION AT SATELLITE ALTITUDES. HIGH ENERGY (20-70 MEV) CHANNELS ON THE ATS SATELLITE SHOWED AN ONSET AT 24/1052Z AND AT 24/1530Z SHOWED A FLUX OF 10 PARTICLES CM-2 SEC-1. AT PRESENT NO PROTONS HAVE BEEN DETECTED AT GROUND LEVELS. IT APPEARS THAT THIS PROTON EVENT IS A MINOR ONE. THE REGION AT N13W36 CURRENTLY SHOWS A WELL DEVELOPED EMBEDDED FILAMENT SYSTEM TO THE SOUTH OF THE LARGE PENUMBRA. THE PLAGE IN THIS AREA IS MORE COMPACT TODAY WITH NUMEROUS POINT BRIGHTENINGS. THE UMBRAL SPOTS IN THE N13W36 HAVE GROWN ARE DARKER IN H-ALPHA AND ARE CLOSER TOGETHER. A NEW LARGE J SPOT IS LOCATED AT S14E87. THE REGION AT N12W07 HAS DECREASED IN SPOT AREA. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS M AND X FLARES ARE EXPECTED TO CONTINUE FROM THE NW COMPLEX. THE PROTON EVENT IS EXPECTED TO REMAIN MINOR A GEOMAGNETIC STORM IS ANTICIPATED TO BEGIN LATE ON 25 NOVEMBER.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24/1700Z ENDING 27/1700Z.

CLASS M OR GREATER 100/100/100

CLASS X 70/70/70

PROTON EVENTS 35/35/40

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 204. PREDICTED 200/195/186

E. MAGNETIC A-FREDERICKSBURG FOR 23 NOV WAS 03. FOR 24 NOV.

ABOUT 04 PREDICTED AP FOR 25-27 NOV 15/40/15.

SOLTERWARN

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