

NNNN0531

NNNN

KMSC

HAUS BOU 300435Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 522A ISSUED 0400Z 30 JAN 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS DECREASED SINCE SDF 521B. ONLY ONE CLASS M FLARE HAS BEEN OBSERVED. THIS FLARE AT 29/2010Z OCCURRED S14W46, OPTICAL 1N, MOST OF THE FLARE ACTIVITY HAS BEEN CENTERED IN THE REGION AT S16W45. THE ATS-1 SATELLITE SHOWED AN INCREASE IN PROTON COUNT ON THE 20-70 MEV DETECTOR TO 20 PARTICLES PER SQ CM PER SEC. THIS MAXIMUM WAS REACHED AT 29/2350Z. THE COUNT HAS DECREASED SINCE THAT TIME. NO ABSORPTION ON GROUND BASED DETECTORS HAS BEEN OBSERVED. THE MAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. SOLAR ACTIVITY WILL CONTINUE FROM THE SW REGIONS DURING THE NEXT 24 HOURS. THE MINOR MAGNETIC DISTURBANCE MAY INCREASE DURING THIS FORECAST PERIOD.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 JAN/0400 ENDING 02 FEB/0400Z.

CLASS M OR GREATER 100/100/100

CLASS X 70/70/70

PROTON EVENTS 15/10/10

D. OTTAWA 10.7 CM FLUX 29/1700Z AND 2000Z WERE 171 AND 172 RESPECTIVELY.

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KMSC

HAUS BOU 301719Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 522B ISSUED 1700Z 30 JAN 1970

CLASS X FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS INCREASED THE PAST 3 HOURS WITH AN OPTICAL IMPORTANCE 1B CLASS M FLARE AT 30/1459Z AT S06W33. IONOSPHERIC EFFECTS FROM THIS FLARE WERE MODERATE WITH A SIMPLE TYPE II 10 CM RADIO BURST OF 112 FLUX UNITS ABOVE BACKGROUND AT 30/1506Z. DYNAMIC BRIGHTENINGS AND FLUCTUATIONS HAVE OCCURRED IN H-ALPHA ALONG AN ACTIVE FILAMENT IN THIS REGION JUST EAST OF THE LARGE LEADER UMBRA AT S05W33. HOWEVER, THIS REGION IN WHITE LIGHT HAS NOT CHANGED AT ALL. THE REGION AT S15W59 PRODUCED A CLASS M FLARE (IMP SN) AT 30/0521Z AT S13W53. IT APPEARS THAT THIS REGION IS SLOWLY DECAYING AND BREAKING UP IN WHITE LIGHT. THE ATS-1 SATELLITE PROTON EVENT IS SLOWLY DECAYING WITH THE 30/1700Z READING ON THE 20-70 MEV CHANNEL AT 10 PARTICLES PER SQ CM PER SEC. THE GEOMAGNETIC FIELD IS CURRENTLY DISTURBED.

B. CLASS M FLARES ARE EXPECTED DURING THE NEXT THREE DAYS FROM THE S15W59 AND S05W33 REGIONS. A MAJOR CLASS X FLARE IS STILL PROBABLE FROM THE S15W59 REGION BEFORE WEST LIMB PASSAGE. THE GEOMAGNETIC DISTURBANCE IS EXPECTED TO INTENSIFY DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30/1700Z ENDING 02/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 50/50/50

PROTON EVENTS 20/20/25

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 160. PREDICTED 155/145/138.

E. MAGNETIC A-FREDERICKSBURG FOR 29 JAN WAS 07. FOR 30 JAN ABOUT 14. PREDICTED AP FOR 31 JAN - 02 FEB, 20/15/10.

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