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KMSC

HAUS BOU 040400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 830A ISSUED 0400Z 04 DEC 1970

OCCASIONAL CLASS-C FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST 11 HOURS; ONLY A FEW CLASS-C FLARES HAVE BEEN REPORTED. THE MOST SIGNIFICANT EVENT CONSISTED OF A RELATIVELY NON-ENERGETIC ONE-NORMAL FLARE AT 03/2109Z FROM THE REGION AT S16E07. LITTLE ACTIVITY HAS BEEN OBSERVED RECENTLY ON THE NORTHEAST LIMB, WHERE A PREVIOUSLY ACTIVE REGION IS EXPECTED TO RETURN AT NE16 DURING THE NEXT 24 HOURS. A MODERATELY BRIGHT, FLUCTUATING PLAGE AND SMALL SPOTS ARE PRESENT AT S10E35, BUT NO SIGNIFICANT ACTIVITY HAS BEEN REPORTED FROM THAT REGION SO FAR. SOME SPOT GROWTH HAS BEEN NOTED IN THE REGION AT S16E07 ALONG AN ACTIVE FILAMENT THAT WINDS THROUGH THE REGION. THE OTHER DISK REGIONS ARE RELATIVELY UNIMPRESSIVE. DURING THE PAST 24 HOURS THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET.

B. OCCASIONAL CLASS-C FLARES ARE EXPECTED TO CONTINUE FROM THE VARIOUS DISK REGIONS DURING THE FORECAST PERIOD. THERE IS A FAIR CHANCE THAT THE REGION NOW ABOUT TO CROSS THE LIMB AT NE16 MAY PRODUCE ONE OR TWO ENERGETIC EVENTS DURING THE NEXT 36 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET DURING THE NEXT 24 HOURS, BUT GEOMAGNETIC ACTIVITY PROBABLY WILL INCREASE GRADUALLY TOWARD THE END OF THE FORECAST PERIOD.

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

CLASS M OR GREATER 40/45/50

CLASS X 01/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 03/1700Z AND 03/2000Z WERE 152 AND 150 RESPECTIVELY.

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HAUS BOU 041700
FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO
SDF NUMBER 830B ISSUED 1700Z 04 DEC 1970
ENERGETIC EVENTS ARE EXPECTED FROM THE NE LIMB DURING THE
NEXT 24 HOURS.

A. A CLASS M6 EVENT OCCURRED ON THE EAST LIMB NEAR N18
AT 04/0952Z. VISUALLY THE EVENT STARTED AS A BRIGHT MOUND
AT 0952Z. THIS MOUND BEGAN TO ERUPT INTO AN IMP 3 SURGE POINTING
NORTHWARD AT 0956Z. BY 1020Z THE LENGTH OF THE SURGE HAD GROWN
TO 0.6 SOLAR RADIUS AND IT EXTENDED 0.4 RADIUS BEYOND THE LIMB.
AT 1035Z BRIGHT MATERIAL WAS OBSERVED FALLING BACK TO THE LIMB
AS FAR NORTH AS N50 AND MATERIAL CONTINUED TO RETURN TO THE LIMB
UNTIL 1258Z. THE PLAGE AND SPOTS ASSOCIATED WITH THE S17W02
REGION ARE DEVELOPING AND ARCH FILAMENTS IN THE CENTER OF THE
REGION SUGGEST THAT NEW MAGNETIC FIELDS MAY BE EMERGING. THE
GEOMAGNETIC FIELD IS VERY QUIET.

B. ENERGETIC EVENTS ARE EXPECTED FROM THE NE LIMB. LIMB
ACTIVITY SUGGESTS THAT TWO REGIONS MAY BE APPROACHING THE DISK,
ONE NEAR N10 AND THE OTHER NEAR N20. CLASS X EVENTS MUST BE
CONSIDERED POSSIBLE FOR THE NEXT 36 HOURS. THE S17W02 REGION
COULD PRODUCE INFREQUENT CLASS M EVENTS. QUIET GEOMAGNETIC
CONDITIONS WILL CONTINUE THROUGH 06 DECEMBER, AFTER WHICH TIME
THE FIELD IS EXPECTED TO BECOME UNSETTLED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE
24 HOUR PERIODS BEGINNING 04 DEC/1700Z ENDING 07 DEC/1700Z.
CLASS M OR GREATER 70/80/80
CLASS X 10/15/15
PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUX FOR 04/1400Z WAS 158. PREDICTED
10.7 CM FLUX FOR 05-07 DEC IS 164/168/172.

E. MAGNETIC A-FREDERICKSBURG FOR 03 DEC WAS 04. FOR 04 DEC
ABOUT 04. PREDICTED AP FOR 05-07 DEC, 05/08/10.

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