

NNNN0359

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KMSC

HAUS BOU 210400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 633A ISSUED 0400Z 21 MAY 1970

DURING THE NEXT 13-HOUR PERIOD NO ENERGETIC FLARES ARE ANTICIPATED.

A. NO M FLARES WERE OBSERVED YESTERDAY. (M FLARES ARE DEFINED TO BE ERUPTIONS WITH A PEAK 1-3A FLUX GREATER THAN 10^{-2} TO THE MINUS 2 ERGS/CM²/SEC.) OVERALL ACTIVITY FOR THE 20TH DROPPED BY NEARLY A FACTOR OF 2 FROM THE PREVIOUS DAY, PRODUCING NEAR SUNSPOT MINIMUM CONDITIONS. THE LARGE, DORMANT SPOT GROUP NOW CENTERED NEAR N17W34 HAS DECLINED ABOUT 20 PERCENT IN AREA WITH LITTLE CHANGE IN THE VERTICAL MAGNETIC FIELD DISTRIBUTION. MOREOVER, ITS DIFFUSE HYDROGEN PLAGE APPEARS SUBDUED. OVER THE NEXT 12-HOUR PERIOD THE SMALL H-TYPE SPOT GROUP NEAR N15E20 LOOKS THE MOST PROMISING IN TERMS OF SUBFLARE ACTIVITY. THE LONG FILAMENT THERE IS BORDERED BY BRIGHT PLAGE WHERE IT ENTERS THE REGION.

STATE OF GEOMAGNETIC FIELD CLN QUIET.

B. THE CURRENT LULL IN ACTIVITY IS EXPECTED TO CONTINUE ABOUT 24 MORE HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21 MAY/0400Z ENDING 24/0400Z.

CLASS M OR GREATER 40/50/60

CLASS X 05/10/10

PROTON EVENTS 05/10/10

D. OTTAWA 10.7CM FLUXES FOR 20/1700 AND 2000Z WERE 180 AND 132 RESPECTIVELY.

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NNNN1735
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HAUS BOU 211700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 633B ISSUED 1700Z 21 MAY 1970

NO ENERGETIC FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY HAS REMAINED AT A RELATIVELY LOW LEVEL DURING THE PAST 13 HOURS; ONLY CLASS-C FLARES HAVE BEEN REPORTED. A ONE-NORMAL FLARE WAS OBSERVED AT 21/0940Z FROM THE REGION AT N15E13. THE REGION AT N15E13 HAS DEVELOPED A TRAILER SECTION, AND THE REGION AT S10W27 HAS SHOWN DEVELOPMENT IN THE LEADER WITH DECAY IN THE FOLLOWER. THE LARGE REGION AT N17W41 HAS CONTINUED ITS PATTERN OF SLOW DEGENERATION, THOUGH FLUCTUATIONS AND SEVERAL SUB-FLARES HAVE BEEN OBSERVED IN THIS REGION. SURGE ACTIVITY AT ABOUT N18 ON THE EAST LIMB INDICATES THE PRESENCE OF SOME SORT OF ACTIVE REGION PRESENTLY COMING ONTO THE DISK; SURGE ACTIVITY IS CONTINUING NEAR THE SOUTHWEST LIMB AS THE LARGE SOUTHWEST REGION BEGINS ITS LIMB PASSAGE. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST 24 HOURS.

B. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A RELATIVELY LOW LEVEL, AND ENERGETIC ACTIVITY IS NOT CONSIDERED VERY LIKELY DURING THE NEXT 24 HOURS; HOWEVER, EITHER REJUVENATION OF THE REGION AT N17W41 OR UNEXPECTED RAPID DEVELOPMENT OF THE REGIONS AT N15E13 AND S10W27 COULD PRODUCE ENERGETIC ACTIVITY. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY STABLE DURING THE NEXT 24 HOURS. THE PIONEER 8 SATELLITE INDICATES AN ENHANCED SOLAR WIND, AND THIS ENHANCEMENT PROBABLY WILL PRODUCE A SLIGHT MAGNETIC DISTURBANCE WITHIN ABOUT 50 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21 MAY/1700Z ENDING 24 MAY/1700Z.

CLASS M OR GREATER 45/50/50

CLASS X 05/05/05

PROTON EVENTS 08/08/08

D. OTTAWA 10.7 CM FLUX FOR 21/1400Z WAS 171. PREDICTED 10.7 CM FLUX FOR 22-24 MAY IS 162/154/146.

E. MAGNETIC A-FREDERICKSBURG FOR 20 MAY WAS 11. FOR 21 MAY ABOUT 07. PREDICTED AP FOR 22-24 MAY 06/09/10.

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KMSC

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