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KMSC

HAUS BOU 060400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 802A ISSUED 0400Z 06 NOV 1970

A CLASS-M FLARE IS NOT UNLIKELY DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL DURING THE PAST 11 HOURS; ONLY TWO SUB-FAINT FLARES HAVE BEEN REPORTED. ALL DISK REGIONS ARE RELATIVELY UNIMPRESSIVE, AND FEW FEATURES NORMALLY ASSOCIATED WITH SIGNIFICANT ACTIVITY HAVE BEEN OBSERVED. THE TRIO OF SMALL REGIONS AT S15E24, S16E21, AND S08E20 HAS EXHIBITED MINOR SPOT GROWTH, BUT THE PLAGE HAS REMAINED AT MODERATE INTENSITY SINCE THE MAJOR FLARE AT 05/0312Z. ATS-1 PROTON COUNTING RATES HAVE INCREASED TO APPROXIMATELY 1400 PARTICLES PER SQ CM PER SEC AT 5-20 MEV AND 20 PARTICLES PER SQ CM PER SEC AT 20-70 MEV. THE GEOMAGNETIC FIELD HAS SHOWN ONLY MINOR FLUCTUATIONS; THE K-VALUE AT BOULDER FOR 06/0000-0300Z WAS 3.

B. ONLY RELATIVELY MINOR SOLAR ACTIVITY IS EXPECTED DURING THE NEXT 11 HOURS; THERE IS A FAIR CHANCE THAT A CLASS-M EVENT MAY OCCUR NEAR THE TRIO OF REGIONS NEAR S12E22 OR FROM ONE OF THE GROWING BIPOLAR GROUPS AT S07W13 AND S10W46. THE PROTON EVENT DETECTED BY THE ATS-1 SATELLITE IS LIKELY TO CONTINUE FOR AT LEAST THE NEXT 24 HOURS, AND A MODERATE GEOMAGNETIC STORM IS EXPECTED TO BEGIN AT ABOUT 06/1500Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 NOV/0400Z ENDING 09 NOV/0400Z.

CLASS M OR GREATER 60/60/60

CLASS X 02/02/01

PROTON EVENTS 02/02/01

D. OTTAWA 10.7 CM FLUXES FOR 05/1700Z AND 05/2000Z WERE 150 AND 148 RESPECTIVELY.

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KMSC O

HAUS BOU 061725

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 802B ISSUED 1700Z 06 NOV 1970

NO M ACTIVITY IS EXPECTED DURING THE 11-HOUR INTERVAL

BETWEEN MESSAGES.

A. FOR THE PAST 24 HOURS OVERALL DISK ACTIVITY HAS BEEN LOW. OUT OF 8 SMALL SPOT GROUPS NOW VISIBLE, THE REGION NEAR S10W62 IS THE ONLY FEATURE WITH AN AREA GREATER THAN 100 MILLIONTHS. ITS FLUCTUATING HYDROGEN PLAGE HAS GIVEN ~~USE FOR~~ THE MAJORITY OF SUBFLARES REPORTED TODAY. CURRENT ATIS-1 FLUXES ARE ABOUT 600 AND 16 PARTICLES/CM2/SEC ON THE 5-20 AND 20-70 MEV CHANNELS RESPECTIVELY. APPARENTLY THE PCA EVENT WHICH BEGAN ABOUT 05/0700Z PASSED THROUGH A DEFINITE MAXIMUM ROUGHLY 20 HOURS LATER. GROUND-LEVEL RIOMETER ABSORPTION HAS NOT EXCEEDED 1 DB AT THULE. SLIGHTLY HIGHER COSMIC NOISE ATTENUATION WAS REPORTED YESTERDAY ALONG THE ALASKAN CHAIN, BUT THOSE VALUES MAY CONTAIN SOME AURORAL ZONE CONTAMINATION. ENHANCED PROTON FLUXES HAVE BEEN OBSERVED NOW BY OGO, ITOS, AND PIONEERS 6 AND 8 IN ADDITION TO THE GEOSTATIONARY ATIS-1 SATELLITE. GEOMAGNETICALLY CONDITIONS HAVE BEEN DISTURBED SINCE APPROXIMATELY 06/0800Z. PRIMARILY THE, SLOW VARIATIONS HAVE BEEN CONFINED TO THE D TRACE, IMPLYING ~~MORE~~ A CHANGE IN DIRECTION OF SOLAR WIND SPEED RATHER THAN ONE IN MAGNITUDE. NO SHOCK FRONT HAS PASSED BY SINCE THE 05/0312Z X-EVENT.

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B. A MINOR MAGNETIC STORM IS DEFINITELY EXPECTED-ONE INITIATED BY A WELL DEFINED SC. STORM ONSET SHOULD BE NEAR MESSAGE TIME. ANY ENERGETIC FLARES OCCURRING WITHIN THE NEXT THREE DAYS WILL VERY LIKELY BE THRESHOLD M EVENTS WITH NO MORE THAN ONE PER DAY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 NOV/1700Z ENDING 09 NOV/1700Z.

CLASS M OR GREATER 50/50/40

CLASS X 02/01/01

PROTON EVENTS 02/01/01

D. OTTAWA 10.7 CM FLUX FOR 06/1400Z WAS 152. PREDICTED 10.7 CM FLUX FOR 07-09 NOV IS 145-145/143.

E. MAGNETIC A-FREDERICKSBURG FOR 05 NOV WAS 09. FOR 06 NOV ABOUT 24. PREDICTED AP FOR 07-09 NOV, 19/08/09.

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