

NNNN0422

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KMSC

HAUS BOU 060425Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 557A ISSUED 0400Z 06 MAR 1970

M FLARES ARE LIKELY FROM THE SE SPOT GROUP DURING THE NEXT 13-HOUR PERIOD.

A. THE SMALL BIPOLAR REGION NOW NEAR S15E62 HAS BEEN THE MOST ACTIVE SPOT GROUP THESE PAST 24 HOURS. SINCE THE LAST MESSAGE TWO MORE FLARES HAVE BEEN RECLASSIFIED AS M EVENTS - ONE AT 05/1157Z (NO OPTICAL OBSERVATIONS) AND ANOTHER BEGINNING ABOUT 05/1616Z (IMP 1B). THE LATTER OCCURRED WITHIN THE SE REGION. OVERCAST CONDITIONS PREVENTED DISK OBSERVATIONS AT BOULDER AS WELL AS AT A NUMBER OF OTHER SITES YESTERDAY. CARNARVON'S MORNING REPORT INDICATES THAT THE GROUP MENTIONED ABOVE IS THE BRIGHTEST IN HYDROGEN-ALPHA WITH ITS ATTENDANT PLAGE FAVORING THE EASTERN PORTION. MINOR FLUCTUATIONS IN THE GEOMAGNETIC FIELD CONTINUE; A SMALL SC WAS CALLED BY FREDERICKSBURG AND BOULDER OBSERVERS AT 05/0805Z. NEUTRON MONITOR COUNTING RATES ARE CURRENTLY DEPRESSED APPROXIMATELY 4 PER CENT.

B. THE S15E62 REGION SHOULD BE THE SOURCE OF M ACTIVITY FOR THE NEXT 3 DAYS. SLIGHTLY DISTURBED MAGNETIC CONDITIONS CAN BE EXPECTED THROUGH 07 MAR.

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

CLASS M OR GREATER 90/80/70

CLASS X 40/30/20

PROTON EVENTS 05/05/05

D. OTTAWA 10.7CM FLUXES FOR 05/1700 AND 2000Z WERE 166 AND 174 RESPECTIVELY.

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HAUS BOU 061725Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 557B ISSUED 1700Z 06 MARCH 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY REMAINS AT A MODERATE LEVEL WITH THE LATEST CLASS M EVENT AN ERUPTIVE IMPORTANCE 2 BSL AT N12WL AT 06/0926Z.

THIS FLARE BEHIND THE LIMB PRODUCED A 798 F.U. 10 CM RADIO BURST ABOVE BACKGROUND AT 06/0934Z, IMPORTANCE 2 LOOPS STARTING AT 06/1345Z AND AN ATS-1 SATELLITE PROTON ENHANCEMENT ON THE HIGH ENERGY CHANNEL /20-70 MEV/ OF 3 PARTICLES PER SQ CM PER SECOND AT 06/1600Z. THIS MINOR PROTON EVENT STARTED AT 06/1530Z. THE MAJORITY OF THE CLASS C FLARE ACTIVITY IS COMING FROM THE GROWING E-TYPE/470 MILLIONTHS SPOT GROUP AT S14E52. A B-TYPE/10 MILLIONTHS FOLLOWS THIS GROUP AT S13E60. THIS COMPLEX CONTAINS A GROUP OF MINOR FILAMENTS IN H-ALPHA. THE REGION AT N06W26 CONTAINS SOME ABSORPTION FEATURES IN THE LEADER PORTION. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. CLASS M FLARES ARE EXPECTED TO INCREASE DURING THE NEXT THREE DAYS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN DISTURBED DURING THE NEXT 18-24 HOURS.

FINAL UPDATE ESSA ECLIPSE FORECAST CLN

MAJOR CORONAL STREAMER OVER A LARGE QUIESCENT PROMINENCE WILL OCCUR AT GEOCENTRIC POSITION ANGLE 35 TO 45 DEGREES. THIS PROMINENCE COULD ERUPT BEFORE OR DURING THE ECLIPSE. A MODERATE STREAMER WITH A FAINT QUIESCENT PROMINENCE IS EXPECTED AT POSITION ANGLE 80 TO 90. A MINOR STREAMER AT P.A. 230 OVER A PROMINENCE LOCATED JUST BEYOND WEST LIMB. A MAJOR CORONAL CONDENSATION WILL BE AT P.A. 265 AND A MINOR CONDENSATION AT P.A. 65 AND 245. SMALL BRIGHT PROMINENCE AT P.A. 110 AND SMALL PROMINENCES AT P.A. 280 AND 320. POLAR PLUMES WILL BE FAINT OR ABSENT. MAJOR FLARES ARE LIKELY ON THE DISK AT P.A. 80 AND RADIUS VECTOR 0.7.

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

CLASS M OR GREATER 80/90/90

CLASS X 30/40/40

PROTON EVENTS 10/15/20

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 176. PREDICTED 182/188/196.

E. MAGNETIC A-FREDERICKSBURG FOR 05 MAR WAS 10. FOR 06 MAR ABOUT 24. PREDICTED AP FOR 07-09 MAR, 10/08/08.

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