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KMSC

HAUS BOU 140400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 014A ISSUED 0400Z 14 JAN 1971

OCCASIONAL CLASS-C FLARES AND PERHAPS ONE CLASS-M FLARE ARE ANTICIPATED DURING THE NEXT 13 HOURS.

A. THE MOST SIGNIFICANT SOLAR EVENT REPORTED DURING THE PAST 11 HOURS CONSISTED OF A BORDERLINE CLASS M1 SUBNORMAL FLARE AT 13/2103Z FROM THE SLOWLY DECAYING REGION AT S06W50. WHILE LITTLE RECENT SIGNIFICANT CHANGE HAS BEEN NOTED IN THE S06W50 CENTER, PLAGE DEVELOPMENT HAS OCCURRED IN THE NEW REGION AT S22W60, AND A NEW REGION POSSESSING MODERATELY BRIGHT PLAGE HAS APPEARED ON THE EAST LIMB AT N15. OTHER REGIONS ARE UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST 11 HOURS. ALTHOUGH ATS-1 PROTON COUNTING RATES ARE AT BACKGROUND LEVELS, A SIGNIFICANT APPARENT ENHANCEMENT OF PARTICLES IN THE 0.6-13 MEV RANGE HAS BEEN OBSERVED BY THE PIONEER 6 SPACECRAFT, WHICH IS APPROXIMATELY THREE COROTATIONAL DAYS AHEAD OF EARTH. ALTHOUGH THE ORIGIN OF THESE LOW-ENERGY PARTICLES IS UNCERTAIN, IT SEEMS REASONABLE TO SUPPOSE THAT THEY WERE PRODUCED BY THE LARGE REGION AT S06W50.

B. DURING THE THREE-DAY FORECAST PERIOD, SOLAR ACTIVITY IS EXPECTED TO REMAIN NEAR THE PRESENT LEVEL. OCCASIONAL CLASS-C FLARES AND ONE OR TWO CLASS-M FLARES ARE LIKELY DURING THE 72-HOUR PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN MODERATELY QUIET UNTIL ABOUT 15/1200Z, WHEN A MAGNETIC DISTURBANCE OF UNCERTAIN MAGNITUDE MAY BE PRODUCED AS THE STREAM OF LOW-ENERGY PARTICLES DETECTED BY PIONEER 6 INTERACTS WITH THE EARTH'S GEOMAGNETIC ENVIRONMENT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 JAN/0400Z ENDING 17 JAN/0400Z.

CLASS M OR GREATER 50/50/50

CLASS X 02/02/02

PROTON EVENTS 02/02/01

D. OTTAWA 10.7 CM FLUXES FOR 13/1700Z AND 13/2000Z WERE 153 AND 156 RESPECTIVELY.

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HAUS BOU 141745

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 014B ISSUED 1700Z 14 JAN 1971

INFREQUENT CLASS M FLARES ARE EXPECTED DURING NEXT 11 HOURS.

A. A CLASS M4/M5 EVENT WITH OPTICAL IMPORTANCE SUBBRIGHT/ONE BRIGHT BEGAN AT 1119Z AT S09W57. MAXIMUM WAS AT ABOUT 1123Z. A CLASS C OR POSSIBLY M1 SUBFLARE IN THE SAME REGION BEGAN AT 1045Z AND PEAKED AT 1047Z. SIGNIFICANT DEVELOPMENT HAS NOT BEEN REPORTED IN THE REGION. A REGION IS ROTATING ONTO THE DISK AT NE17-19. PLAGE STRUCTURE IS INDETERMINANT BUT THE ASSOCIATED LIMB ACTIVITY HAS BEEN FREQUENT AND LATITUDINALLY EXTENSIVE LIMB EVENTS ARE OCCURRING. A STILL-ELEMENTARY BUT NOMINAL BI-POLAR STRUCTURE IS EMERGING AT N10W10. OCCASIONAL CLASS C EVENTS HAVE ORIGINATED FROM BOTH OF THESE REGIONS.

B. A SLIGHT INCREASE IN THE FREQUENCY OF CLASS C AND POSSIBLY CLASS M FLARES IS EXPECTED AT N10W10 AND, PENDING FURTHER OBSERVATION, AT NE 18. SOME GEOMAGNETIC DISTURBANCE IS EXPECTED TO PEAK IN THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 JAN/1700Z ENDING 17 JAN/1700Z.

CLASS M OR GREATER 60/60/60

CLASS X 02/02/05

PROTON EVENTS 02/02/05

D. OTTAWA 10.7 CM FLUX FOR 14/1400Z WAS 158.5. PREDICTED 10.7 CM FLUX FOR 15-17 JAN IS 160/161/162.

E. MAGNETIC A-FREDERICKSBURG FOR 13 JAN WAS 06. FOR 14 JAN ABOUT 09 PREDICTED AP FOR 15-17 JAN 12/10/08.

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