

NNNN0350

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KMSC

HAUS BOU 180400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 018A ISSUED 0400Z 18 JANUARY 1971

CLASS C ACTIVITY IS EXPECTED AND CLASS M ACTIVITY IS PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS CONSISTED OF ONLY A FEW MINOR SUBFLARES DURING THE PAST 24 HOURS. THE REGION N19E40 HAS SHOWN A SLIGHT GROWTH IN THE LEADER PORTION. A NEW REGION S20E78 IS THE BRIGHTEST DISK FEATURE, AND SMALL BSL ACTIVITY HAS BEEN ASSOCIATED WITH THIS GROUP. THE OTHER GROUPS ARE QUIET. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. ACTIVITY FROM REGIONS N19E40 AND S20E78 WILL BE ON THE INCREASE WITH CLASS C FLARES AND AN OCCASIONAL CLASS M FLARE. THE GEOMAGNETIC FIELD WILL HAVE PERIODS OF DISTURBANCE AND MAY REACH STORM PROPORTIONS LATE ON THE 20TH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 JAN/0400Z ENDING 21 JAN/0400Z

CLASS M OR GREATER 80/80/75

CLASS X 25/20/15

PROTON EVENTS 10/10/15

D. OTTAWA 10.7 CM FLUXES FOR 17/1700Z AND 17/2000Z WERE 160 AND 162 RESPECTIVELY.

SOLTERWARN

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NNNN1808

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KMSC

HAUS BOU 181810

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 018B ISSUED 1700Z 18 JAN 1971

M EVENTS ARE LIKELY BUT THEIR PROBABILITY OF OCCURRENCE IS DECLINING RAPIDLY.

A. THE PAST 13 HOURS HAVE BEEN CHARACTERIZED BY INFREQUENT, SCATTERED SUBFLARES. NINE REGIONS ARE CURRENTLY VISIBLE RANGING IN SIZE FROM PORE-LIKE STRUCTURES TO AN AREA L EXTENT OF ABOUT 540 MILLIONTHS. THE BRIGHTEST PLAGE IS CONCENTRATED NEAR A MODERATE SIZE GROUP JUST INSIDE THE SE LIMB. ALL DISK FEATURES REMAIN INACTIVE. AT ROUGHLY 18/1000Z THE GEOMAGNETIC FIELD BEGAN TO FLUCTUATE. THE UNSETTLED CONDITIONS ARE NOT BELIEVED TO BE TIED TO THE 16/0801Z FLARE AND ASSOCIATED RADIO BURST.

B. NO CLEAR CUT EVIDENCE, EITHER AT RADIO OR OPTICAL WAVELENGTHS, CONCERNING THE IMMEDIATE FLARE POTENTIAL OF THE N19E31 REGION IS AVAILABLE. IT WOULD APPEAR THAT THE SPOT GROUP, WHICH GAVE RISE TO THE LARGE RADIO BURST ON THE 16TH, COULD GO EITHER WAY, I.E. FLARE OR NOT. A MAGNETIC STORM IS DEFINITELY EXPECTED. START TIME SHOULD BE ABOUT 20/0400Z. ADMITTEDLY THIS START TIME IS A GUESS DUE TO THE UNFORTUNATE GEOMETRY BETWEEN THE FLARE POSITION AND THE PIONEER 6 AND 8 SPACECRAFTS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 JAN/1700Z ENDING 21 JAN/1700Z.

CLASS M OR GREATER 80/70/65

CLASS X 20/15/10

PROTON EVENTS 20/15/15

D. OTTAWA 10.7 CM FLUX FOR 18/1400Z WAS 166. PREDICTED 10.7 CM FLUX FOR 19-21 JAN IS 14/13/34. BAD DATA.

E. MAGNETIC A-FREDERICKSBURG FOR 17 JAN WAS 04. FOR 18 JAN ABOUT 13. PREDICTED AP FOR 19-21 JAN, 14/34/25.

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