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KMSC

HAUS BOU 260400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 026A ISSUED 0400Z 26 JANUARY 1971

OCCASIONAL CLASS M FLARES EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY IS PRESENTLY LOW CONSISTING OF OCCASIONAL SUBFAINT AND SUBNORMAL FLARES FROM THE N18W64 AND S12W32 REGIONS. DUE TO POOR SEEING AND FORESHORTENING OF THE NW REGION NO ACCURATE ANALYSIS HAS BEEN MADE RECENTLY. OBSERVATORY REPORTS INDICATE A WEAKENING IN THE REGIONS STRUCTURE. H-ALPHA PLAGE IS LESS INTENSE ESPECIALLY NEAR THE NEUTRAL LINE WHICH WAS THE SITE OF THE 24/2309Z FLARE. THE S12W29 REGION HAS EXPERIENCED ONLY MINOR GROWTH AND HAS BEEN INACTIVE. THE S12E57 REGION HAS PRODUCED THREE SMALL FLARES. THIS REGION HAS A CLASS/AREA OF E/610 AND IS AN OPEN BIPOLAR WITH MODERATELY BRIGHT TRAILING PLAGE.

B. THE POTENTIAL FOR MORE MAJOR SOLAR ACTIVITY HAS DECLINED, HOWEVER, SEVERAL MORE CLASS M FLARES ARE EXPECTED FROM THE NW REGION IN THE NEXT 72 HOURS. THE THULE 30MHZ GEOPOLE RIOMETER HAS RECORDED 4.7 DB ABSORPTION AS OF 25/2000Z. THIS PCA EVENT IS EXPECTED TO CONTINUE FOR ANOTHER 36 HOURS. A MAJOR GEOMAGNETIC STORM IS EXPECTED TO BEGIN AROUND 26/1200Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 26 JAN/0400Z ENDING 29 JAN/0400Z
CLASS M OR GREATER 90/80/80

CLASS X 20/15/15

PROTON EVENTS 20/15/15

D. OTTAWA 10.7 CM FLUXES FOR 25/1700Z AND 25/2000Z WERE 177 AND 176 RESPECTIVELY.

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HAUS BOU 261720

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 026B ISSUED 1700Z 26 JAN 1971

OCCASIONAL CLASS M FLARES ARE EXPECTED NEXT 11 HOURS.

A. ONLY MINOR ACTIVITY HAS BEEN OBSERVED IN THE PAST 13 HOURS.

THE N18W75 CENTER IS TOO NEAR THE WEST LIMB FOR FURTHER EVALUATION.
NEAR-EARTH SATELLITE DATA INDICATE THAT HIGH ENERGY PARTICLE FLUX
FROM THE 24/2309Z EVENT IS CONTINUING TO DECLINE WHILE LOWER ENERGY
(LESS THAN 13 MEV) COSMIC RAYS HAVE REVERSED A POSSIBLE DOWNWARD
TREND AND HAVE BEEN INCREASING FOR THE PAST 6 HOURS OR MORE. NO
MAGNETIC STORM HAS BEEN DETECTED YET.

B. PLAGE FLUCTUATIONS INDICATE SOME CONTINUED FLARE ACTIVITY IN THE
NW COMPLEX. MINOR FLARES MAY ORIGINATE IN THE STRUCTURALLY SIMPLE
REGIONS AT S12W42 AND S13E51. A MAGNETIC STORM IS EXPECTED TO
BEGIN IN THE NEXT 4-10 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 26 JAN/1700Z ENDING 29 JAN/1700Z.

CLASS M OR GREATER 80/75/75

CLASS X 20/15/15

PROTON EVENTS 20/15/15

D. OTTAWA 10.7 CM FLUX FOR 26/1400Z WAS 174. PREDICTED 10.7 CM
FLUX FOR 27-29 JAN IS 172/170/174.

E. MAGNETIC A-FREDERICKSBURG FOR 25 JAN WAS 09. FOR 26 JAN
ABOUT 50. PREDICTED AP FOR 27-29 JAN, 45/20/12.

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