

NNNN0359

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KMSC

HAUS BOU 100400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 836A ISSUED 0400Z 10 DEC 1970

OCCASIONAL CLASS-M FLARES ARE ANTICIPATED DURING THE NEXT 13 HOURS.

A. SEVERAL SMALL CLASS-M FLARES HAVE BEEN PRODUCED DURING THE PAST 11 HOURS BY THE REGIONS AT N15E22, N13E55, N12E63, AND N03E74. THE N15E22 REGION CURRENTLY IS THE MOST IMPRESSIVE DISK FEATURE; GROWTH OF THE INTERMEDIATE SPOTS HAS BEEN REPORTED, AND HIGH MAGNETIC GRADIENTS PROBABLY ARE PRESENT BOTH IN THE SOUTHWEST PORTION OF THE LEADER AND IN THE FOLLOWER SECTION. DEVELOPMENT ALSO HAS OCCURRED IN THE LEADER OF THE N13E55 REGION, AND SMALL FLARE POINTS HAVE BEEN OBSERVED THROUGHOUT THE ENTIRE PLAGE. A ONE-BRILLIANT FLARE OCCURRED AT 09/1751Z FROM A NEW B-TYPE REGION AT N03E74; THIS REGION PRESENTLY APPEARS RELATIVELY SIMPLE BOTH IN H-ALPHA AND WHITE LIGHT. ARCH FILAMENTS AND ENHANCED PLAGE ARE PRESENT IN THE S09E05 REGION, BUT THE SPOTS STILL ARE SMALL. A FLARE-BRIGHT PLAGE WITHOUT SPOTS HAS CROSSED THE LIMB AND IS NOW LOCATED AT S08E30, BUT NO SIGNIFICANT ACTIVITY HAS BEEN PRODUCED AT THAT SITE SO FAR. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST 24 HOURS.

B. DURING THE THREE-DAY FORECAST PERIOD OCCASIONAL SMALL CLASS-M FLARES AND ON OR TWO LARGE CLASS-M OR CLASS-X FLARES ARE LIKELY TO BE PRODUCED BY THE SEVERAL REGIONS IN THE NORTHEASTERN QUADRANT OF THE DISK. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 10 DEC/0400Z ENDING 13 DEC/0400Z.

CLASS M OR GREATER 99/99/95

CLASS X 20/20/15

PROTON EVENTS 02/02/05

D. OTTAWA 10.7 CM FLUXES FOR 09/1700Z AND 09/2000Z WERE 177 AND 177 RESPECTIVELY.

SOLTERWARN

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HAUS BOU 101700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 836B ISSUED 1700Z 10 DEC 1970

A CLASS X EVENT EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS BEEN MODERATE WITH TWO CLASS M FLARES OCCURRING IN THE N15E15 REGION-A SN AT 10/0805Z AND A B AT 10/1429Z. THIS REGION NOW CONTAINS A DELTA IN THE TRAILER AND THE PLAGE LYING ALONG THE N-S NUETRAL LINE IS COMPACT AND FLUCTUATING. THE N19E21 REGION ALSO CONTAINS A DELTA. THE N13E47 REGION HAS ACTIVE ARCH FILAMENTS LOCATED NEAR ITS CENTRAL SPOTS WHERE ANOTHER DELTA EXISTS. THE COMPLEX OF REGIONS NEAR S10E00 ARE DEVELOPING AND HAVE A LARGE AREA OF BRIGHT PLAGE. RF BACKGROUND LEVELS ARE HIGH AND GIVING PERIODIC SMALL BURSTS.

B. A MAJOR, CLASS X, FLARE IS EXPECTED IN THE NEXT 11 HOURS FROM THE NE SECTOR OF THE SUN. THE JUSTIFICATION FOR THIS PREDICTION CENTERS AROUND THE INCREASED COMPLEXITY OF SOLAR REGIONS AND THE RECENT MICROWAVE ACTIVITY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 10 DEC/1700Z ENDING 13 DEC/1700Z.

CLASS M OR GREATER 100/100/100

CLASS X 75/60/50

PROTON EVENTS 02/05/10

D. OTTAWA 10.7 CM FLUX FOR 10/1400Z WAS 176. PREDICTED

10.7 CM FLUX FOR 11-13 DEC IS 185/190/195.

E. MAGNETIC A-FREDERICKSBURG FOR 09 DEC WAS 04. FOR 10 DEC ABOUT 03. PREDICTED AP FOR 11-13 DEC, 03/03/10.

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