

KMSC

HAUS BOU 110400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 593A ISSUED 0400Z 11 APRIL 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL WITH 2 CLASS M FLARES DURING THE PAST 12 HOURS. ONE 10/1650Z A SUB BRIGHT IN REGION S10W17 AND 10/1816Z A SUB NORMAL N18E29. THE TWO REGIONS S12W22 AND N16E26 CONTINUE TO GROW AND DEVELOP. THE REGION S12W22 HAS DEVELOPED TWO DELTA CONFIGURATIONS WITHIN ITS STRUCTURE, HOWEVER BOTH ARE MAGNETICALLY WEAK. THE REGION N10W23 HAS SHOWN SOME DEVELOPMENT AND GROWTH. THE REMAINING REGIONS ARE STABLE. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS M FLARES CAN BE EXPECTED FROM REGIONS N10W23, S10W17 AND S12W22. IT IS PROBABLE ALSO THAT REGION S12W22 WILL PRODUCE A CLASS X FLARE BEFORE ITS WEST LIMB PASSAGE. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 11 APRIL/0400Z ENDING 14 APRIL/0400Z

CLASS M OR GREATER 90/90/90

CLASS X 30/30/30

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUXES 10/1700Z AND 2000Z WERE 236 AND 215 RESPECTIVELY. 10/2000Z WAS PROBABLY FLARE CONTAMINATED.

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1803

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KMSC

HAUS BOU 111800Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 593B ISSUED 1700Z 11 APRIL 1970

CLASS M FLARES ARE EXPECTED IN THE NEXT 11 HOURS.

A. CONSIDERABLE DEVELOPMENT IS APPARENT IN THE N10W32 REGION, WHERE A MAGNETIC DELTA CONFIGURATION IS NOW INFERRED. FLARES FROM THIS REGION HAVE BEEN OF CLASS C ENERGY SINCE SDF 593A. THE REGION AT S11W31 SEEMS REGENERATING ON THE WEST SIDE OF THE LARGE TRAILING PENUMBRA. TWO DELTA CONFIGURATIONS WERE REPORTED IN THIS ACTIVE CENTER BY MOUNT WILSON YESTERDAY. SOME H- ALPHA INSTABILITY WAS MANIFEST EARLIER IN THE DAY, BUT IS NOT CURRENTLY APPARENT. BY CONTRAST, THE REGION AT N17E16 APPEARS SOMEWHAT SCATTERED, BUT IS BRIGHT IN H-ALPHA, AND REPRESENTS A BETA-GAMMA CONFIGURATION. IT PRODUCED A CLASS M FLARE BEGINNING 11/0207Z. NEW REGIONS ARE APPARENT AT N05W49 AND S08E65, BUT NO EAST LIMB ACTIVITY IS YET APPARENT, ALTHOUGH RETURNING ACTIVE CENTERS ARE EXPECTED. THE GEO-MAGNETIC FIELD IS SLIGHTLY DISTURBED, AND PROTON FLUXES AS OBSERVED BY ATS-1 ARE NEARLY AT BACKGROUND.

B. REGIONS AT N10W32 AND S11W31 ARE CAPABLE OF MAJOR ACTIVITY. LOW LEVEL OF REPORTED ACTIVITY MAY BE DUE TO WEATHER AT MANY OBSERVATORIES. CLASS M FLARES EXPECTED FROM N17E16 REGION, ALTHOUGH MAJOR FLARES NOT EXPECTED. PROTON EVENT PROBABILITIES CONSIDERED CLOSE TO CLASS X PROBABILITIES DUE TO DISK POSITION.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 11 APRIL/1700Z ENDING 14 APRIL/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 25/25/25

PROTON EVENTS 20/20/20

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 209. PREDICTED 200/200/190.

E. MAGNETIC A- FREDERICKSBURG FOR 10 APRIL WAS 02. FOR 11 APRIL ABOUT 14. PREDICTED AP FOR 12-14 APRIL, 10/20/03.

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