

NNNN0403

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KMSC

HAUS BOU 010400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 552A ISSUED 0400Z 01 MARCH 1970

CLASS C FLARES ARE EXPECTED AND CLASS M FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. REGIONS N15W27 AND N07E55 HAVE BOTH SHOWN GROWTH AND DEVELOPMENT DURING THE PAST 24 HOURS. BOTH OF THESE REGIONS CONTAIN DELTA CONFIGURATIONS AND HAVE SHOWN ACTIVITY DURING THE DAY. BOTH REGIONS HAVE PRODUCED CLASS M FLARES. THE NORTHWEST REGION APPEARS MOST ACTIVE. THE GEOMAGNETIC FIELD REMAINS DISTURBED.

B. CLASS M FLARES ARE PROBABLE FROM REGIONS N15W27 AND N07E55. THE GEOMAGNETIC FIELD WILL REMAIN DISTURBED DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 01 MAR/0400Z ENDING 04 MAR/0400Z

CLASS M OR GREATER 70/70/70

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX 28/1700Z AND 2000Z WERE 177 AND 180 RESPECTIVELY.

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HAUS BOU 011800Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 552B ISSUED 1700Z 01 MARCH 1970

CLASS X FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. MARCH CAME IN LIKE A LION WITH 9 CONFIRMED CLASS M AND ONE CLASS X EVENT SO FAR THIS UT DAY.

THESE EVENTS OCCURRED AT 0200, 0253, 0422, 0435, 0500, 0808, 0933, 1050, 1132, AND 1530Z. OF THESE<sup>10</sup> EVENTS, THREE OCCURRED IN THE REGION NEAR N15W36; SIX, INCLUDING THE CLASS X, IN THAT NEAR N07E46; AND ONE CORRESPONDED TO AN IMP ONE BRIGHT FLARE REPORTED NEAR S08W82. THE CLASS X EVENT WAS OPTICALLY OF IMP ONE BRIGHT AT 0933Z AND WAS ACCOMPANIED BY MAJOR SID AND RADIO EMISSION /975 FLUX UNITS AT 10CM/. SIGNIFICANT RADIO EMISSION HAS ACCOMPANIED SEVERAL OF THE OTHER EVENTS. THE MOST RECENT EVENT, A SUB BRIGHT AT 1530Z IN THE NE REGION, WAS ACCOMPANIED BY A 563 FLUX UNIT TEN CM BURST. RECENT VISUAL EVALUATION HAS BEEN HAMPERED BY WEATHER AND THE ALMOST CONSTANT ACTIVITY. HOWEVER, BOTH THE N15W36 AND N07E46 APPEAR TO RETAIN THEIR MAGNETIC COMPLEXITY AND, IF ANYTHING, APPEAR TO BE INCREASING IN MAJOR FLARE POTENTIAL AT THIS TIME. THE GEOMAGNETIC DISTURBANCE IS NEARING STORM PROPORTIONS WITH BOULDER K-INDICES BEING 5 TO 6 SINCE 0600Z.

B. ENHANCED ACTIVITY IS FORESEEN FOR THE NEXT 72 HOURS. CLASS M EVENTS SHOULD BE FREQUENT AND ONE OR TWO CLASS X EVENTS PER DAY CAN BE EXPECTED FROM THE N15W36 AND N07E46 REGIONS. THE ACTIVE CENTER WHICH PRODUCED NUMEROUS CLASS M AND X EVENTS EARLY IN FEBRUARY SHOULD RETURN TO EAST LIMB 03-04 MARCH AND MAY CONTRIBUTE TO THE ACTIVITY. THE GEOMAGNETIC DISTURBANCE IS EXPECTED TO GRADUALLY SUBSIDE DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 01 MAR/1700Z ENDING 04/1700Z.

CLASS M OR GREATER 100/100/90

CLASS X 50/50/50

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 178. AT 1700Z, 181. PREDICTED 178/175/170.

E. MAGNETIC A-FREDERICKSBURG FOR 28 FEB WAS 11. FOR 01 MAR ABOUT 25. PREDICTED AP FOR 02-04 MAR, 15/10/08.

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