

NNNN0350

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KMSC

HAUS BOU 210400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 572A ISSUED 0400Z 21 MARCH 1970

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

A. SOLAR ACTIVITY HAS INCREASED DURING THE PAST 3 HOURS IN THE FORM OF FLARES AND ACCOMPANYING BSL ACTIVITY. THE LARGEST, AN IMPORTANCE 3 SURGE AND BSL AT 21/0034Z STARTED WITH A LARGE IN FLARE N20E70. MATERIAL FROM BSL ERUPTED TO .6 SOLAR RADII. THE IN FLARE MAX. WAS 0120Z. VERY LITTLE RADIO OR RIOMETER DISTURBANCE WAS NOTED. THERE HAS BEEN SMALL BSL ACTIVITY ON SW LIMB ALSO. THE GEOMAGNETIC FIELD HAS BECOME SLIGHTLY DISTURBED DURING PAST FOUR HOURS.

B. SOLAR ACTIVITY WILL CONTINUE WITH FLARES FROM THE NORTHEAST COMPLEX AND BSL ACTIVITY ON SW LIMB. NO GEOMAGNETIC STORM IS FORECAST.

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

CLASS M OR GREATER 50/50/50

CLASS X 05/05/05

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUX 20/1700Z AND 2000Z WERE 142 AND 141 RESPECTIVELY.

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NNNN1735

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KMSC

HAUS BOU 211734Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 572B ISSUED 1700Z 21 MARCH 1970

CLASS M FLARES ARE EXPECTED IN THE NEXT 11 HOURS.

A. NO M OR X FLARES HAVE BEEN OBSERVED IN THE LAST 13 HOURS.

THE REGION NEAR N20E42 HAS SHOWN INCREASED COMPLEXITY IN THE FORM OF NEW SPOTS, SPOT DEVELOPMENT (PENUMBRAL GROWTH), PLAGE BRIGHTENING AND ARCH FILAMENTS. IN H-ALPHA THE PLAGE IS SEEN TO LIE IN A COMPACT INTENSE RING OVER THE SPOTS IN THE GROUP. THE REGION HAS DEVELOPED FROM THE MERGING OF TWO BIPOLAR SETS. NEW SPOTS HAVE FORMED NEAR S05E22. SOME SPOT GROWTH IS OBSERVED IN THE REGION NEAR N17W36. THE GEOMAGNETIC FIELD IS QUIET. ATS-1 SATELLITE PROTON FLUXES ARE NEAR BACKGROUND.

B. CLASS M FLARE PRODUCTION FROM THE N20E42 REGION IS EXPECTED TO INCREASE. THIS IS BASED ON ITS NEWLY FORMED COMPLEXITY BOTH IN WHITE LIGHT AND H-ALPHA.

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

CLASS M OR GREATER 70/80/90

CLASS X 10/15/20

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 151. PREDICTED 160/165/170.

E. MAGNETIC A-FREDERICKSBURG FOR 20 MARCH WAS 03. FOR 21 MARCH ABOUT 04. PREDICTED AP FOR MARCH 22-24, 06/06/06.

SOLTERWARN

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