

KMSC

HAUS BOU 210400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 544A ISSUED 0400Z 21 FEBRUARY 1970

CLASS M FLARES ARE PROBABLE IN THE NEXT 13 HOURS.

A. SINCE THE FLARE 20/0943Z ACTIVITY ON THE DISK HAS BEEN RATHER LOW. A FEW CLASS C FLARES, ALL SUB FLARES, HAVE BEEN OBSERVED TODAY. HOWEVER THE NORTH EAST LIMB HAS BEEN QUITE ACTIVE. BRIGHTENINGS, SURGES, AND MOUNDS HAVE BEEN OBSERVED. THIS REGION HAS STARTED ITS LIMB TRANSIT AND SEVERAL SPOTS ARE NOW VISIBLE. FURTHER EVALUATION WILL HAVE TO WAIT FOR BETTER SEEING. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS M FLARES ARE PROBABLE FROM THE REGIONS S22W16, N19E60 AND S20E18.

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

CLASS M OR GREATER 30/30/30

CLASS X 15/15/15

PROTON EVENTS 5/5/5

D. OTTAWA 10.7 CM FLUX 20/1700Z AND 2000Z WERE 201 AND 192 RESPECTIVELY.

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KMSC

HAUS BOU 211850Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 544B ISSUED 1700Z 21 FEBRUARY 1970

CLASS M FLARES ARE PROBABLE IN THE NEXT 11 HOURS.

A. CONSIDERABLE PLAGE DEVELOPMENT HAS OCCURRED TO THE NORTH OF THE S12E03/S15E17 COMPLEX OF ACTIVE CENTERS. SPOT DECLINE IS NOTED IN THE TRAILING REGION AT S19E17, WHILE MAJOR WHITE LIGHT GROWTH IS APPARENT IN THE S14E09 REGION. A FLARE OF POSSIBLE M-ENERGY OCCURRED IN THIS REGION BEGINNING 21/0935 /OPTICALLY 1N/. MAJOR GROWTH HAS OCCURRED IN THE SPOTS AT N20E45, BUT ACTIVITY HAS NOT BEEN ENERGETIC. FLARE ACTIVITY CONTINUES FROM THE S21W28 REGION, BUT HAS NOT BEEN ENERGETIC. THE REGION AT N18E71, WHILE PRODUCING OCCASIONAL ENERGETIC FLARES, AS AT 21/1559Z, CURRENTLY SEEMS SIMPLE BIPOLAR, AND DOES NOT APPEAR GROWING. THE GEOMAGNETIC FIELD IS QUIET, AND PROTON FLUXES AT ATS-1 ARE AT BACKGROUND. TYPE I NOISE STORM AT METER WAVELENGTHS CONTINUES.

B. CLASS X FLARES ARE POSSIBLE FROM S14E09 REGION, AND CLASS M FLARES ARE PROBABLE, BOTH FROM THIS REGION AND FROM N18E71 REGION.

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

CLASS M OR GREATER 80/80/80

CLASS X 20/20/20

PROTON EVENTS 10/10 10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 194. PREDICTED 200/200/200.

E. MAGNETIC A-FREDERICKSBURG FOR 20 FEBRUARY WAS 01. FOR 21 FEB ABOUT 03. PREDICTED AP FOR 22-24 FEB, 08/09/05.

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TRUE !!