

NNNNUU0350

NNNNGM

KMSC

HAUS BOU 270400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 700A ISSUED 0400Z 27 JULY 1970

CLASS C FLARES AND AN OCCASIONAL CLASS M FLARE CAN BE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 11 HOURS. ACTIVITY HAS BEEN BASICALLY FROM REGIONS N06E29 AND N03W29. THE REGION N06E29 WHICH SHOWED RAPID GROWTH EARLIER HAS NOW STABILIZED. A SMALL 1B FLARE WAS OBSERVED IN THIS REGION 27/0120Z. ONLY SMALL RADIO EFFECTS WERE OBSERVED. WITH DECAY OF REGION N03W29 THE REGION N06E29 IS LIKELY TO BE THE MAJOR FLARE PRODUCING REGION. THE GEOMAGNETIC STORM HAS SUBSIDED. PERIODS OF GEOMAGNETIC DISTURBANCE WILL CONTINUE.

B. CLASS C FLARES AND CLASS M FLARES CAN BE EXPECTED FROM REGIONS N03W29 AND N06E29 DURING THE NEXT THREE DAYS. THE GEOMAGNETIC FIELD WILL HAVE DISTURBED PERIODS WITH FURTHER DISTURBANCE STARTING 28 JULY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 27 JULY/0400Z ENDING 30 JULY/0400Z

CLASS M OR GREATER 80/80/80

CLASS X 40/40/40

PROTON EVENTS 40/40/40

D. OTTAWA 10.7 CM FLUXES FOR 26/1700Z AND 26/2000Z WERE 171 AND 174 RESPECTIVELY.

SOLTERWARN

SPAN

BT

NNNNUU0400

NNNNNGM

KMSC

HAUS 1 BOU 271700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 700B ISSUED 1700Z 27 JULY 1970

INFREQUENT CLASS M FLARES EXPECTED DURING THE NEXT 11 HOURS

A. A CLASS M FLARE OCCURRED AT 27/0706Z AND WAS OPTICALLY CLASSIFIED FROM 1N TO 1B; LOCATION WAS N13W30. MINOR RADIO BURSTS AND IONOSPHERIC DISTURBANCES ACCOMPANIED THE FLARE. THE REGION NEAR N06E21 HAS GROWN SPECTACULARLY SINCE YESTERDAY BUT APPEARS AS AN OPEN BIPOLAR WITH MODERATE PLAGE THREADED WITH ARCH FILAMENTS. AN H TYPE SPOT IS RETURNING AT SE10. MINOR SPOT GROWTH IN THE N13W26 REGION HAS OCCURRED AND THE PENUMBRA HAS BECOME MORE JAGGED BUT STILL CONTAINS A WEAK DELTA. THE N08W34 REGION CONTINUES TO FLARE AROUND THE TRAILER. THE GEOMAGNETIC FIELD IS UNSETTLED.

B. A FAIRLY HIGH PROBABILITY FOR M FLARES EXISTS DUE TO THE NUMBER OF ACTIVE GROUPS ON THE SUN; THESE ARE N08W47, N13W39 AND N06E21 PRESENTLY. THE N08W47 REGION LOOKS SMALLER IN SPOT AREA BUT RETAINS ITS MAGNETIC COMPLEXITY AND IT IS LOOKING LESS AND LESS LIKELY FOR ANOTHER CLASS X FLARE OR PROTON EVENT IN THE NEXT 72 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME DISTURBED AROUND 30 JULY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 27 JULY/1700Z ENDING 30 JULY/1700Z.

CLASS M OR GREATER 80/80/80

CLASS X 30/25/20

PROTON EVENTS 30/25/20

D. OTTAWA 10.7CM FLUX FOR 27/1400Z WAS 178. PREDICTED 10.7CM FLUX FOR 28-30 JULY IS 183/186/188.

E. MAGNETIC A-FREDERICKSBURG FOR 26 JULY WAS 16. FOR 27 JULY ABOUT 14. PREDICTED AP FOR 28-30 JULY IS 12/14/20.

SOLTERWARN

SPAN

BT