

UNCLAS

KMSC

HAUS BOU 030400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 676A ISSUED 0400Z 03 JULY 1970

SMALL, ENERGETIC FLARES ARE VERY LIKELY TO OCCUR DURING THE NEXT 13 HOURS.

A. RECENT SIGNIFICANT ACTIVITY HAS TAKEN THE FORM OF (1) A SN FLARE OF 02/1807Z START TIME AND N18W26 POSITION AND (2) AN IMPORTANCE 1 IN FLARE BEGINNING ABOUT 02/2313Z NEAR S07E15. BOTH EVENTS MAY WELL RATE AS SMALL M'S. IMPORTANCE 1 SPA'S AND 10CM RADIO BURSTS OF THE ORDER OF 100 UNITS ACCOMPANIED EACH. THE 2313Z FLARE WAS UNUSUAL IN THE SENSE THAT IT MAINTAINED MAXIMUM BRIGHTNESS FOR NEARLY 30 MINUTES. THE TWO REGIONS INVOLVED ESSENTIALLY DOMINATE THE DISK IN WHITE AND MONOCHROMATIC LIGHT AS WELL AS IN THEIR CONTRIBUTION TO OVERALL ACTIVITY. UNSETTLED CONDITIONS PREVAILING GEOMAGNETICALLY YESTERDAY HAVE TERMINATED. DEEP RIVER'S NEUTRON COUNTING RATE, HOWEVER, REMAINS DEPRESSED.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 03 JULY/0400Z ENDING 07 JULY/0400Z.

CLASS M OR GREATER 85/90/90

CLASS X 15/15/15

PROTON EVENTS 10/15/20

D. OTTAWA 10.7 CM FLUXES FOR 02/1700Z AND 02/2000Z WERE 185 AND 182 RESPECTIVELY.

SOLTERWARN

SPAN

BT

NNNNU1700

NNNNJM

KMSC

HAUS BOU 031700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 676B ISSUED 1700Z 03 JULY 1970

ONE OR TWO CLASS-M FLARES ARE LIKELY DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY DURING THE PAST 13 HOURS HAS CONSISTED PRIMARILY OF CLASS-C SUBFLARES FROM THE VARIOUS DISK REGIONS; NO CLASS-M FLARES HAVE BEEN REPORTED. AN INFERRED MAGNETIC DELTA CONFIGURATION EXISTS IN THE LARGE S07E05 REGION. DRAMATIC SPOT GROWTH, BRIGHT PLAGE, AND TWO PARALLEL IMBEDDED FILAMENTS RUNNING EAST-WEST PRESENTLY CHARACTERIZE THE N15E25 REGION, BUT NO SIGNIFICANT FLARES HAVE APPEARED AT THAT SITE YET. THE WESTERN PORTION OF THE REGION AT N23W36 STILL APPEARS CAPABLE OF OCCASIONAL ENERGETIC FLARE PRODUCTION. BEGINNING AT APPROXIMATELY 03/0300Z, THE GEOMAGNETIC FIELD BECAME DISTURBED; DISTURBANCE REACHED A MAXIMUM BETWEEN 0900Z AND 1200Z, FOR WHICH PERIOD A K-VALUE OF 5 WAS RECORDED IN BOULDER. DEEP RIVER NEUTRON COUNTING RATES HAVE REMAINED DEPRESSED APPROXIMATELY THREE PERCENT SINCE ABOUT 02/0200Z.

B. SPORADIC ENERGETIC FLARES ARE PROBABLE AT THE S09E49, N15E25, S07E05, AND N23W36 SITES. THE GEOMAGNETIC FIELD IS EXPECTED TO SHOW OCCASIONAL PERIODS OF DISTURBANCE DURING THE NEXT 24 HOURS; DISTURBANCE IS LIKELY TO BE GREATEST BETWEEN 0600Z AND 1300Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 03 JULY/1700Z ENDING 06 JULY/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 15/15/15

PROTON EVENTS 15/15/20

D. OTTAWA 10.7CM FLUX FOR 03/1400Z WAS 190. PREDICTED 10.7 CM FLUX FOR 04-06 JULY IS 194/198/198.

E. MAGNETIC A-FREDERICKSBURG FOR 02 JULY WAS 15. FOR 03 JULY ABOUT 13. PREDICTED AP FOR 04-06 JULY IS 12/10/08.

SOLTERWARN

SPAN

BT