

IV IV IV IV

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 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 ACCCOMPANIED 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. UNSETLED 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 APPROX-

IMATELY 03/0300Z, THE GEOMAGNETIC FIELD BECAME DISTURBED; DIST-

URBANCE 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