

NNNNUU0421

NNNNQ02022

KMSC

HAUS BOU 160424Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 639A ISSUED 0400Z 16 JULY 1970

CLASS C FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. NO SOLAR EVENTS HAVE OCCURRED OF ANY SIGNIFICANT ENERGY THE PAST 11 HOURS. THE EIGHT SUNSPOT REGIONS ON THE DISK PRESENTLY ARE EITHER DECLINING OR ARE TOO SMALL TO SUPPORT ENERGETIC FLARES. THE GEOMAGNETIC FIELD IS QUIET.

B. SINCE THE DISK IS UNIMPRESSIVE AND NO SIGNIFICANT REGION IS EXPECTED TO RETURN DURING THE NEXT 72 HOURS, THE SUN IS EXPECTED TO PRODUCE LITTLE ACTIVITY AND IN THE FORM OF NON-ENERGETIC EVENTS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 JULY/0400Z ENDING 19 JULY/0400Z.

CLASS M OR GREATER 20/20/20

CLASS X 02/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 16/1700Z AND 16/2000Z WERE 118 AND 118 RESPECTIVELY.

SOLTERWARN

SPAN

BT

NNNNUU0425

NNNNQG0429

NNNNUMV

NNNNUI1710
NNNNUMVGM1710
NNNNBM
KMSC

HAUS BOU 161705Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BTULDER COLO
SDF NUMBER 689B ISSUED 1700Z 16 JULY 1970

CLASS-C FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST 11 HOURS; ONLY A FEW RELATIVELY NON-ENERGETIC FLARES HAVE BEEN OBSERVED. LITTLE DEVELOPMENT HAS BEEN NOTED IN ANY OF THE DISK REGIONS. REVIEW OF BOULDER FLARE PATROL FILMS REVEALS THAT AN INTERESTING LIMB EVENT OCCURRED AT NE05, BEGINNING AT 15/2204Z; AT THAT TIME A RISING PUFF OF PROMINENCE MATERIAL WAS VISIBLE. BY 2209Z A SMALL FLARE WAS CLEARLY VISIBLE; THE FLARE REACHED MAXIMUM AT ABOUT 2215Z. AT APPROXIMATELY 2223Z A LOOP-SHAPED SURGE ROSE ABOVE THE SITE OF THE FLARE, AND THIS SURGE EVENTUALLY ATTAINED AN ALTITUDE OF .1 SOLAR RADIUS. A CLASS-C X-RAY BURST ACCOMPANYING THIS LIMB EVENT BEGAN AT ABOUT 2205Z AND REACHED AN APPARENT MAXIMUM AT ABOUT 2230Z. SMALL SURGES HAVE BEEN OBSERVED NEAR NE10 THIS ZULU DAY. IT IS LIKELY THAT AN ACTIVE REGION PRESENTLY EXISTS BEHIND THE LIMB NEAR NE10, THOUGH NO SUNSPOTS OR PLAGE ARE YET VISIBLE AT THAT LOCATION. DURING THE PAST 24 HOURS THE GEOMAGNETIC FIELD HAS REMAINED QUIET, ATS-1 PROTON COUNTING RATES HAVE REMAINED AT BACKGROUND, AND DEEP RIVER NEUTRON MONITOR COUNTING RATES HAVE REMAINED NEAR NORMAL.

not in final report

B. DISK ACTIVITY IS ANTICIPATED TO REMAIN VERY LOW DURING THE NEXT 72 HOURS, DUE TO THE RELATIVE LACK OF DEVELOPMENT OF ANY OF THE REGIONS PRESENTLY VISIBLE. RECENT LIMB EVENTS OBSERVED NEAR NE10 SUGGEST THAT AN ACTIVE REGION MAY CROSS THE EAST LIMB AT THAT LOCATION DURING THE NEXT 48 HOURS, AND PRELIMINARY EVIDENCE SUGGESTS THAT ENERGETIC EVENTS EVENTUALLY MAY BE PRODUCED BY THAT REGION. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 JULY/1700Z ENDING 19 JULY/1700Z.

CLASS M OR GREATER 35/45/45

CLASS X 02/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUX FOR 16/1400Z WAS 116. PREDICTED 10.7CM FLUX FOR 17-19 JULY IS 114/114/114.

E. MAGNETIC A-FREDERICKSBURG FOR 15 JULY WAS 06. FOR 16 JULY ABOUT 07. PREDICTED AP FOR 17-19 JULY IS 08/08/08.

SOLTERWARN

SPAN

BT