

NNNNUM

KMSC

HAUS BOU 140400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 657A ISSUED 0400Z 14 JUNE 1970

CLASS M FLARES ARE EXPECTED AND CLASS X FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS CONTINUED AT A HIGH LEVEL DURING THE PAST 11 HOURS. DURING THIS PERIOD THE ENERGETIC FLARES FROM THE REGION N19E40 HAVE CONTINUED AND FIVE CLASS M FLARES HAVE BEEN OBSERVED. THE REGION N16W03 HAS SUBSIDED IN FLARE PRODUCTION SINCE 13/1200Z. THE REGION S15W90 HAS PRODUCED SEVERAL OPTICAL FLARES BUT THEY HAVE BEEN NON-ENERGETIC. THE REST OF THE DISK REGIONS ARE RATHER QUIET. A NEW J TYPE SPOT HAS ROTATED ON THE DISK AT S10. THE GEOMAGNETIC FIELD IS QUIET.

B. THE REGIONS N19E40 AND N16W03 ARE EXPECTED TO CONTINUE THEIR FLARE ACTIVITY DURING THE NEXT 13 HOURS. CLASS M FLARES WITH AN OCCASIONAL CLASS X FLARE CAN BE EXPECTED. THE GEOMAGNETIC FIELD WILL SHOW PERIODS OF DISTURBANCE DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 JUNE/0400Z ENDING 17 JUNE/0400Z

CLASS M OR GREATER 99/99/99

CLASS X 65/65/65

PROTON EVENTS 20/20/20

D. OTTAWA 10.7 CM FLUXES FOR 13/1700Z AND 13/2000Z WERE BOTH 200.

SOLTERWARN

SPAN

BT

NNNNUU1712
NNNNB1712
NNNNBM

KMSC

HAUS BOU 141700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 657B ISSUED 1700Z 14 JUNE 1970

CLASS X FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. THE LARGE AND COMPLEX REGION NOW CENTERED NEAR N19E31 HAS PRODUCED FIVE CLASS M AND THREE CLASS X EVENTS SO FAR THIS UT DAY. CLASS X EVENTS WITH MAJOR RADIO BURSTS AND SID OCCURRED AT 14/0020Z, 14/0509Z, AND 14/1322Z AND WERE OPTICALLY SB, 1B, AND 2B RESPECTIVELY. PENUMBRAL DEVELOPMENT, MAINLY IN THE TRAILING PORTION, CONTINUES IN THE REGION. PROTON FLUXES NEAR EARTH AS DETECTED BY ATS-1 WERE AT BACKGROUND AS OF 14/0800Z, THE LAST REAL TIME DATA AVAILABLE. THE GEOMAGNETIC FIELD IS QUIET.

B. THE N19E31 REGION IS EXPECTED TO CONTINUE TO PRODUCE FREQUENT CLASS M AND OCCASIONAL CLASS X EVENTS. PROTON EVENTS WILL BECOME MORE LIKELY AS THE REGION APPROACHES CENTRAL MERIDIAN. UNSETLED GEOMAGNETIC CONDITIONS ARE EXPECTED DURING THE NEXT THREE DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 JUNE/1700Z ENDING 17 JUNE/1700Z.

CLASS M OR GREATER 99/99/99

CLASS X 70/65/65

PROTON EVENTS 25/30/30

D. OTTAWA 10.7CM FLUX FOR 14/1400Z WAS 209. PREDICTED 10.7CM FLUX FOR 15-17 JUNE IS 210/215/215.

E. MAGNETIC A-FREDERICKSBURG FOR 13 JUNE WAS 10. FOR 14 JUNE ABOUT 12. PREDICTED AP FOR 15-17 JUNE IS 12/15/15.

SOLTERWARN

SPAN

BT