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HAUS BOU 300400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 673A ISSUED 0400Z 30 JUNE 1970

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

A. THE MAJOR PORTION OF SOLAR ACTIVITY DURING THE PAST 24 HOURS HAS BEEN OBSERVED FROM REGIONS N22E11 AND S07E52. THE N22E11 REGION HOWEVER HAS BEEN BREAKING UP IN THE LEADER PORTION AND NO LONGER CONTAINS A DELTA CONFIGURATION. THE S07E52 REGION HAS BEEN GROWING DURING THE PAST 11 HOURS AND IS NOW THE BRIGHTEST DISK FEATURE. BSL ACTIVITY AT SE12 AND PIONEER 6 AND 7 WOULD INDICATE AN ACTIVE REGION BEYOND THE EAST LIMB. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS C AND M ACTIVITY CAN BE EXPECTED FROM REGIONS N22E11 AND S07E52. NO RETURNING REGIONS ARE DUE IN THE SE FOR ABOUT 3 DAYS. THE GEOMAGNETIC FIELD WILL REMAIN QUIET WITH SHORT PERIODS OF SLIGHT DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 JUNE/0400Z ENDING 3 JULY/0400Z

CLASS M OR GREATER 70/70/70

CLASS X 15/15/15

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUXES FOR 29/1700Z AND 29/2000Z WERE 169 AND 167 RESPECTIVELY.

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HAUS BOU 301700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 673B ISSUED 1700Z 30 JUNE 1970

CLASS-C FLARES ARE EXPECTED AND CLASS-M FLARES ARE PROBABLE DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A MODERATE LEVEL DURING THE PAST 13 HOURS; TWO CLASS-M FLARES, A SUB-BRILLIANT AT 30/0435Z AND A ONE-BRILLIANT AT 30/0705Z, BOTH FROM THE REGION AT N22E03, HAVE BEEN REPORTED. THIS REGION PRESENTLY APPEARS TO BE UNDERGOING DECAY. SIGNIFICANT SPOT GROWTH HAS OCCURRED AROUND THE LARGE SPOT AT S07E44, AND DEVELOPMENT IS PROCEEDING IN THE S02E29 REGION. FREQUENT SURGE ACTIVITY CENTERED AT ABOUT SE10 INDICATES THE EXISTENCE OF AN ACTIVE REGION JUST BEHIND THE LIMB, BUT NO X-RAY EVENTS ATTRIBUTABLE TO ACTIVITY FROM THIS REGION HAVE YET BEEN OBSERVED. THE GEOMAGNETIC FIELD HAS BEEN RELATIVELY QUIET DURING THE PAST 24 HOURS.

B. MODERATE CLASS-C AND SPORADIC CLASS-M ACTIVITY IS EXPECTED FROM THE N22E03, S07E44, AND S02E29 REGIONS. THE GEOMAGNETIC FIELD IS EXPECTED TO SHOW OCCASIONAL PERIODS OF SLIGHT DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 JUNE/1700Z ENDING 03 JULY/1700Z.

CLASS M OR GREATER 75/75/75

CLASS X 15/15/15

PROTON EVENTS 10/10/10

D. OTTAWA 10.7CM FLUX FOR 30/1400Z WAS 166. PREDICTED 10.7CM FLUX FOR 01-03 JULY IS 170/174/177.

E. MAGNETIC A-FREDERICKSBURG FOR 29 JUNE WAS 06. FOR 30 JUNE ABOUT 07. PREDICTED AP FOR 01-03 JULY 08/08/10.

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HAUS BOU 302330Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDFR 982 ISSUED JUNE 30 1970

HIGHLIGHTS FOR THE PERIOD 24-30 JUNE 1970:

GEOPHYSICALLY SIGNIFICANT ACTIVITY DURING THE PAST WEEK CONSISTED OF ONE CLASS X AND TEN CLASS M EVENTS FROM THREE DIFFERENT REGIONS, MCMATH NUMBERS 798, 801, AND 808. REGION 808 WAS THE MOST ACTIVE WITH EIGHT CLASS M AND THE ONE CLASS X. THIS REGION WAS APPARENTLY JUST BEGINNING TO DEVELOP AS IT ROTATED OVER THE EAST LIMB ON 24 JUNE. IT IS LOCATED NEAR N22E01 (L 041) AS OF 01/0000Z. ENERGETIC FLARES BEGAN TO OCCUR ON 27 JUNE, BY WHICH TIME THE REGION HAD GROWN TO A SPOT CLASS/AREA OF F/430 MILLIONTHS WITH A MAGNETIC CLASSIFICATION OF BETA-GAMMA WITH A DELTA CONFIGURATION. THE REGION ACHIEVED ITS GREATEST DEVELOPMENT ON 28 JUNE AND HAS BEEN DECAYING SLOWLY SINCE 29 JUNE. THE LARGEST OF THE X-RAY EVENTS, A CLASS X OF IMPORTANCE 1B AT 28/1950Z AND A VERY LARGE CLASS M OF IMP 1B AT 29/1203Z, WERE ACCOMPANIED BY MAJOR RADIO BURSTS AND SEVERE IONOSPHERIC DISTURBANCES. TWO ADDITIONAL IMP 1B FLARES AT 28/0108Z AND 30/0707Z AND FIVE SUBFLARES WERE SMALL CLASS M EVENTS. THE REMAINING SMALL CLASS M EVENTS WERE AN IMP 1N AT 25/0713Z IN REGION 798 (S08 L140) AND AN IMP 1B AT 25/1832Z IN REGION 801 (N10 L 100). A SHORT-LIVED GEOMAGNETIC STORM BEGAN WITH A SUDDEN COMMENCEMENT AT 27/0606Z AND ENDED AT ABOUT 28/0600Z. THE A-INDEX AT FREDERICKSBURG FOR 27 JUNE WAS 29.

FORECAST FOR THE WEEK 02-08 JULY 1970:

ACTIVITY EARLY IN THE WEEK IS EXPECTED TO CONTINUE AT ABOUT ITS PRESENT LEVEL WITH ONE TO TWO ENERGETIC EVENTS PER DAY. ACTIVITY SHOULD INCREASE TOWARD THE END OF THE WEEK. LIMB ACTIVITY AND ENERGETIC PARTICLE DATA FROM THE PIONEER SPACECRAFT INDICATE THAT AN ACTIVE REGION IS PROBABLY NOW APPROACHING THE SOUTHEAST LIMB. MCMATH REGION 781 (NEAR N18 L 260) MAY RETURN ON 04-05 JULY. THIS REGION PRODUCED SPORADIC CLASS M ACTIVITY DURING ITS LAST DISK PASSAGE.

28-DAY FORECAST FOR THE PERIOD 02-30 JULY 1970: A HIGH LEVEL OF ACTIVITY IS EXPECTED FOR THE PERIOD 07-16 JULY.

NOTE: EFFECTIVE 01 JULY 1970 THE DEFINITIONS OF CLASS C, M, AND X EVENTS READ AS FOLLOWS. PLEASE NOTE THAT THE BASIC DEFINITIONS IN TERMS OF X-RAY BURST REMAIN UNCHANGED.

CLASS C: A SOLAR EVENT NOT ASSOCIATED WITH SIGNIFICANT X-RAY EMISSION.

CLASS M: A SOLAR EVENT ACCOMPANIED BY AN X-RAY BURST WITH PEAK FLUX GREATER THAN 0.01 ERG CM-2 SEC-1 IN THE 1-8A BAND.

CLASS X: A SOLAR EVENT ACCOMPANIED BY AN X-RAY BURST WITH PEAK FLUX GREATER THAN 0.1 ERG CM-2 SEC-1 IN THE 1-8A BAND.

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