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KMSC

HAUS BOU 130400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 656A ISSUED 0400Z 13 JUNE 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. A 2N FLARE WAS OBSERVED 12/2108Z IN REGION S15W32. THIS FLARE WAS A CLASS M EVENT. HOWEVER ONLY MINOR RADIO EFFECTS RESULTED FROM THE EVENT. THE REGION N19E54 HAS PRODUCED THE MOST ACTIVITY TODAY WITH CLASS M EVENTS AT 12/1603Z AND 13/0139Z. THE REGION N15E10 HAS ALSO BEEN ACTIVE WITH A CLASS M EVENT AT 12/1530Z. ENERGETIC FLARE ACTIVITY HAS BEEN LIMITED TO THE TWO FLARES MENTIONED SINCE 12/1700Z. THE GEOMAGNETIC FIELD IS QUIET.

B. THE REGION N12E54 IS EXPECTED TO PRODUCE CLASS M FLARES DURING THE NEXT 13 HOURS. THE REGION N15E10 MAY PRODUCE AN OCCASIONAL CLASS M FLARE. THE GEOMAGNETIC FIELD WILL SHOW PERIODS OF SLIGHT DISTURBANCE DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 JUNE/0400Z ENDING 16 JUNE/0400Z

CLASS M OR GREATER 99/99/99

CLASS X 50/50/50

PROTON EVENTS 15/20/20

D. OTTAWA 10.7 CM FLUXES FOR 12/1700Z AND 12/2000Z WERE 167 AND 171 RESPECTIVELY.

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HAUS BOU 131700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 656B ISSUED 1700Z 13 JUNE 1970

FREQUENT CLASS-M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY DURING THE PAST 13 HOURS HAS CLIMBED TO A HIGH LEVEL; MOST OF THE ENERGETIC FLARES HAVE COME FROM THE REGION CENTERED AT N19E44. TWO CLASS-X FLARES HAVE BEEN REPORTED; THESE FLARES WERE BOTH SUB-BRILLIANT FLARES, THE WERE OBSERVED AT 13/0658Z AND 13/1227Z, AND THE BOTH OCCURRED IN THE N19E44 REGION. AT LEAST EIGHT CLASS-M FLARES HAVE BEEN PRODUCED BY THAT REGION DURING THE PAST 13 HOURS, AND CLASS-C FLARES HAVE BEEN NUMEROUS. THE CLASS-X FLARE AT 13-1227Z PRODUCED A 2800 MHZ RADIO BURST OF 487 FLUX UNITS AT 13/1233Z, AND OTHER FLARES FROM THE N19E44 REGION HAVE PRODUCED SMALLER 10 CM BURSTS DURING THE PAST 13 HOURS. THE REGION AT N19E44 HAS SHOWN CONSIDERABLE SPOT GROWTH IN THE TRAILER PORTION; THIS TRAILER IS COMPLEX, CONTAINS AT LEAST FOUR MAIN UMBRAE, AND CONTAINS AN INFERRED MAGNETIC DELTA CONFIGURATION. THE LEADER AND CENTRAL PORTIONS OF THIS GROUP DO NOT APPEAR TO HAVE CHANGED SIGNIFICANTLY, BUT THE HORSESHOE-SHAPED LEADER STILL CONTAINS AN INFERRED DELTA CONFIGURATION. THIS DYNAMIC NORTHEAST REGION HAS A SPOT AREA OF ABOUT 1000 MILLIONTHS. THE REGIONS AT N17E27 AND N20E06 HAVE SHOWN LITTLE CHANGE AND NO SIGNIFICANT ACTIVITY; THE REGION AT N15W00 HAS SHOWN GROWTH IN THE TRAILER, HAS PRODUCED OCCASIONAL SMALL FLARES, AND APPEARS SOMEWHAT DYNAMIC. THE REGION AT N15W47 HAS SHOWN SIGNIFICANT DEVELOPMENT SINCE YESTERDAY; THE SPOT GROUP OF THIS REGION IS NOW CLASSIFIED AS A SMALL D-TYPE. OTHER DISK REGIONS APPEAR RELATIVELY UNINTERESTING. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY DISTURBED DURING THE PAST 13 HOURS.

B. ENERGETIC ACTIVITY IS EXPECTED TO CONTINUE AT A HIGH LEVEL FROM THE REGION AT N19E44 AS DEVELOPMENT CONTINUES; CLASS-M FLARES ARE EXPECTED, AND ONE OR TWO CLASS-X FLARES ARE LIKELY DURING THE NEXT 24 HOURS. DUE TO THE PRESENT HIGH, INCREASING LEVEL OF ACTIVITY, THE PROBABILITY OF A PROTON EVENT WILL CONTINUE TO INCREASE AS THE N19E44 AND N15W00 REGIONS DEVELOP AND ARE ROTATED WESTWARD. THE GEOMAGNETIC FIELD IS EXPECTED TO BE SLIGHTLY DISTURBED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 JUNE/1700Z ENDING 16 JUNE/1700Z.

CLASS M OR GREATER 99/99/99

CLASS X 65/65/65

PROTON EVENTS 20/20/25

D. OTTAWA 10.7CM FLUX FOR 13/1400Z WAS 195, POSSIBLY FLARE ENHANCED. PREDICTED 10.7CM FLUX FOR 14-16 JUNE IS 185/190/195.

E. MAGNETIC A-FREDERICKSBURG FOR 12 JUNE WAS 05. FOR 13 JUNE ABOUT 09. PREDICTED AP FOR 14-16 JUNE IS 10/10/10.

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