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HFUS BOU 150500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 258A ISSUED 0500Z 15 SEPT 1971

ONE OR TWO SMALL M EVENTS SHOULD MARK AN UPPER BOUND ON

ENERGETIC ACTIVITY DURING THE NEXT 24 HOURS.

A. SINCE THE LAST MESSAGE THE SIX SMALL DISK FEATURES CURRENTLY
VISIBLE HAVE CHANGED ONLY SLIGHTLY. A 30-MINUTE M2 FLARE
/OPTICALLY IMPORTANCE 1N/ WAS OBSERVED IN THE SW PORTION OF
REGION 263 /S17E59/ AT 14/2338Z. ALTHOUGH THE ACCOMPANING
CM WAVELENGTH EMISSION AMOUNTED TO NO MORE THAN 30 FLUX UNITS
ABOVE BACKGROUND, WEAK DEKAMETRIC CONTINUUM DID OCCUR LASTING
FOR APPROXIMATELY 10 TO 15 MINUTES. GEOMAGNETICALLY CONDITIONS
HAVE BEEN QUIET.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 15 SEPT/0000Z ENDING 17 SEPT/2400Z.

CLASS M OR GREATER 80/85/90

CLASS X 5/10/10

PROTON EVENTS 5/8/10

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HFUS BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 258B ISSUED 2200Z 15 SEP 1971

CLASS M EVENTS ARE EXPECTED

A. REGION 263 /S12E46/ RETAINS ITS MAGNETIC DELTA CONFIGURATION. THE SUNSPOT GROWTH HAS STABILIZED THE PAST 24 HOURS BUT STRUCTURAL REORIENTATION IS OCCURRING. ITS COMPANION, REGION 266 /S12E55/, REMAINS SINGLE BIPOLE. THE PLAGE STRUCTURE ATTENDANT TO THESE TWO SUNSPOT CLUSTERS IS EXTENSIVE BUT SEGMENTED. CONTINUED REORGANIZATION CAN BE EXPECTED. FREQUENCY OF ENERGETIC EVENTS WILL BE DEPENDENT ON THE MAGNETIC GRADIENTS DEVELOPED BY THIS REORGANIZATION. SINCE THE M2 /14/2338Z/ AND M4 /150319Z/ EVENTS, THE FREQUENCY OF FLARES FOR THE COMBINED COMPLEX HAS DECREASED. REGION 261 /S15W37/ HAS SHOWN A RESURGENCE IN THE GROWTH OF THE TRAILER SUNSPOTS. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED.

B. DESPITE THE FREQUENCY DECREASE OF FLARES FROM REGIONS 263/266, CONTINUED OCCURRENCE OF CLASS M EVENTS IS EXPECTED. LARGER EVENTS ARE POSSIBLE BUT NOT EXPECTED WITHOUT FURTHER INCREASE IN THE STRENGTH OF THE MAGNETIC GRADIENTS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET THE NEXT 36-48 HOURS AND THEN BECOME UNSETTLED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 SEP/0000Z ENDING 18 SEP/2400Z.

CLASS M OR GREATER 85/85/85

CLASS X 10/10/10

PROTON EVENTS 10/10/10

D. OTTAWA 10.7CM FLUXES FOR 15/1400Z, 15/1700Z AND 15/2000Z WERE 109, 116 AND 113 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 16-18 SEP IS 125/133/141.

E. MAGNETIC A-FREDERICKSBURG FOR 14 SEP WAS 10. FOR 15 SEP ABOUT 08. PREDICTED AP FOR 16-18 SEP IS 06/04/10.

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