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HFUS BOU 140500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 257A ISSUED 0500Z 14 SEPT 1971

THRESHOLD-LEVEL M EVENTS FROM THE VICINITY OF THE SE LIMB  
APPEAR LIKELY DURING THE NEXT 24-HOUR PERIOD.

A. THE HOURLY PRODUCTION RATES OF BOTH NON-ENERGETIC SUBFLARES  
AND BRIGHT SURGES ALONG THE SE LIMB HAVE DECLINED IN THE 6 HOURS  
SINCE THE LAST MESSAGE. THREE BRIGHT PATCHES OF PLAGE ARE  
VISIBLE IN HYDROGEN LIGHT BETWEEN S10 THROUGH S16 AND ABOUT E80.  
ALTHOUGH EACH OF THESE CHROMOSPHERIC FACULAR SEGMENTS CONTAINS  
A SPOT OR SPOTS, IT IS STILL TOO EARLY TO DISTINGUISH BETWEEN  
WHAT MAY BE NEW FEATURES AND THE REMNANTS OF ACTIVE CENTER 235  
/L EQUAL 268/. THE ONE OTHER SPOT GROUP OF INTEREST LIES NEAR  
S15W14 /REGION 261/. IT HAS DISPLAYED SLIGHT GROWTH IN WHITE LIGHT  
AND MAINTAINS A SIMPLE BIPOLAR MAGNETIC CONFIGURATION. MOREOVER,  
THE NEUTRAL LINE, I.E., THE LOCUS OF POLARITY REVERSAL OF THE  
LONGITUDINAL FIELD COMPONENT, EXHIBITS NO SHARP BENDS.

B. WITH RESPECT TO THE SOLAR DISK AND LIMBS--NO CHANGE.  
MAGNETIC SUBSTORM ACTIVITY MAY OCCUR AGAIN TONIGHT SOMETIME BEFORE  
14/1200Z. FOR THE 15TH AND 16TH, HOWEVER, RECURRENCE CHARTS  
SUGGEST VERY QUIET GEOMAGNETIC CONDITIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR  
PERIODS BEGINNING 14 SEPT/0000Z ENDING 16 SEPT/2400Z.

CLASS M OR GREATER 50/60/70

CLASS X 05/10/10

PROTON EVENTS 05/05/05

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 257B ISSUED 2200Z 14 SEP 1971

CLASS M FLARES ARE EXPECTED.

A. REGION 263 /S14E60/ HAS SHOWN MARKED GROWTH IN BOTH SUN-SPOTS AND PLAGE DURING THE PAST 24 HOURS. NEW FIELDS HAVE ERUPTED WITHIN THE REMNANTS OF OLD REGION 235 /PRODUCER OF THE PROTON EVENT OF 1 SEP/. THIS REGION HAS BEEN CLASSIFIED AS BETA GAMMA WITH POSSIBLE DELTA CONFIGURATION. TWO CLASS M1 EVENTS HAVE OCCURRED IN THIS REGION; 13/2356Z /SB/ AND 14/1600Z /SN/. REGION 266 /S12E72/ HAS SHOWN SLOWER GROWTH AND IS A SIMPLE BIPOLE. FLARE INTERACTION BETWEEN THESE GROUPS IS POSSIBLE. THE GEOMAGNETIC FIELD HAS BEEN QUIET SINCE 14/1200Z.

B. CONTINUED EMERGENCE OF THE NEW FIELDS IN REGION 263/266 WILL INCREASE INCIDENCE OF ENERGETIC FLARES. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET FOR 42-48 HOURS AND THEN BECOME UNSETTLED.

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

CLASS M OR GREATER 80/85/90

CLASS X 5/10/10

PROTON EVENTS 5/8/10

D. OTTAWA 10.7 CM FLUXES FOR 14/1400Z, 14/1700Z AND 14/2000Z WERE 106, 107 AND 106 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 15-17 SEP IS 122/138/150.

E. MAGNETIC A-FREDERIKSBURG FOR 13 SEP WAS 20. FOR 14 SEP ABOUT 07 PREDICTED AP FOR 15-17 SEP, 04/03/09.

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