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HFUS BOU 210500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 264A ISSUED 0500Z 21 SEPT 1971

A CLASS M FLARE IS LIKELY DURING THE NEXT 24 HOURS.

A. DURING THE PAST SEVEN HOURS, SOLAR ACTIVITY HAS CONSISTED PRIMARILY OF FREQUENT CLASS C SUBFLARES FROM REGION 262 /N13W38/. PLAGE AND SPOT DEVELOPMENT HAVE CONTINUED IN REGION 262, WHERE A BRIGHT RIBBON OF PLAGE IS VISIBLE IN THE CENTRAL PORTION AND AN ACTIVE DARK FILAMENT IS PRESENT WEST OF THE LEADING SPOT. GENERAL DECAY HAS CONTINUED IN REGIONS 263 /S10W28/ AND 266 /S11W26/, BUT THE PLAGE NEAR REGION 263 RETAINS ITS DYNAMIC APPEARANCE. OTHER REGIONS ARE RELATIVELY UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS BECOME QUIET GRADUALLY DURING THE PAST SEVEN HOURS.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21 SEP/0000Z ENDING 23 SEP/2400Z.

CLASS M OR GREATER 75/75/50

CLASS X 10/10/05

PROTON EVENTS 15/20/10

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 264B ISSUED 2200Z 21 SEP 1971

ONLY CLASS C EVENTS ARE EXPECTED BUT A CLASS M IS POSSIBLE.

A. REGION 263/266 CENTERED AT S12W32 CONTINUES DECLINE IN BOTH SUNSPOT AND PLAGE STRUCTURE. ASSOCIATED FILAMENT STRUCTURE HAS ALSO DISSIPATED FURTHER DECREASING PROBABILITY OF AN ENERGETIC FLARE FROM THIS COMPLEX. REGION 262 /N13W49/ HAS HAD NUMEROUS SUBFLARES, WITH A SN AT 1509Z HAVING THE LARGEST RESPONSE AS A C-4 X-RAY EVENT. A SMALL COMPLEX BURST AND IMPORTANCE ONE SWF ACCOMPANIED THIS FLARE. A NEW REGION 273 /S17E59/ IS EMERGING RAPIDLY AS A BIPOLE. THE GEOMAGNETIC FIELD HAS BEEN QUIET THIS GMT DAY.

B. WITHOUT NEW GROWTH, ALL PARAMETERS HAVE SUFFICIENTLY DECLINED FOR REGIONS 263/266 TO GREATLY REDUCE THE PROBABILITY OF AN ENERGETIC EVENT FROM THIS COMPLEX. A CLASS M EVENT IS POSSIBLE FROM REGION 262 AS IT CONTINUES ITS GROWTH EVOLUTION. SUN ORBITING SATELLITE DATA HAS BEEN TOO SPARSE TO DETERMINE THE STRUCTURE OF THE INTERPLANETARY MEDIUM. IT IS ANTICIPATED THAT THE 1 SEPTEMBER PROTON EVENT WILL PRODUCE GEOMAGNETIC CONDITIONS AS FOLLOW-- 22 SEP/ACTIVE; 23 SEP/MINOR STORM; 24 SEP/ACTIVE. HOWEVER IT IS POSSIBLE THAT SUFFICIENT NUMBERS OF PARTICLES ESCAPED INTO THE PRECEDING SECTOR, PRODUCING THE GEOMAGNETIC CONDITIONS DURING THE PAST TEN DAYS, TO SIGNIFICANTLY REDUCE THE FORECAST GEOMAGNETIC CONDITIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 SEP/0000Z ENDING 24 SEP/2400Z.

CLASS M OR GREATER 50/50/50

CLASS X 5/5/5

PROTON EVENTS 10/8/5

D. OTTAWA 10.7 CM FLUXES FOR 21/1400Z, 21/1700Z AND 21/2000Z WERE 110, 110 AND 109 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 22-24 SEP IS 108/104/102.

E. MAGNETIC A-FREDERICKSBURG FOR 20 SEP WAS 14. FOR 21 SEP ABOUT 04 PREDICTED AP FOR 22-24 SEP, 23/44/25.

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