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HFUS BOU 050500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 278A ISSUED 0500Z 05 OCT 1971

CLASS C FLARES EXPECTED.

A. THE ONLY SIGNIFICANT DEVELOPMENT ON THE SUN SINCE THE 05/2200Z REPORT HAS BEEN THE GROWTH OF SPOTS ON THE SOUTH SIDE OF REGION 280 /N12W11/ WHERE CHROMOSPHERIC DEVELOPMENT WAS REPORTED EARLIER. THIS APPARENT NEW BIPOLEAR EMERGENCE WILL UNDOUBTEDLY TRIGGER MORE FLARE ACTIVITY IN REGION 280. BAY ACTIVITY ON THE GEOMAGNETIC TRACE BEGAN JUST AFTER 05/0100Z AND IS EVIDENTLY THE DISTURBANCE EXPECTED TO BEGIN LATE ON OCT 4 OR EARLY ON OCT 5.

B. IN THE NEXT 24 HOURS REGION 280 MAY PRODUCE A FLARE AS LARGE AS THE 03/1329Z EVENT. OTHERWISE ONLY CLASS C EVENTS ARE EXPECTED. THE GEOMAGNETIC ACTIVITY IS EXPECTED FOR ANOTHER 30-36 HOURS WITH LOCAL NIGHTTIME K VALUES OF SIX.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 05/0000Z ENDING 07/2400Z.

CLASS M OR GREATER 95/45/30

CLASS X 50/10/02

PROTON EVENTS 50/10/02

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HFUS BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 278B ISSUED 2200Z 05 OCT 1971

CLASS M EVENTS ARE POSSIBLE

A. THE SMALL NEUTRAL LINE FILAMENT STILL EXISTS IN REGION 280 /N12W18/ WITH THE FILAMENT CURLING INTO THE LARGE LEADER SPOT. FULL ACTIVATION OF THIS FILAMENT WOULD STIMULATE AN ENERGETIC FLARE. REGION 289 /S09W12/ IS CLASSED AS A SIMPLE BIPOLE BY MT. WILSON. CURRENTLY A SHARP BEND EXISTS IN THE H ALPHA NEUTRAL LINE OF THIS EMERGING REGION. THE GEOMAGNETIC HAS BEEN QUIET SINCE 0900Z.

B. SOLAR ACTIVITY WILL REMAIN AT A LOW TO MODERATE LEVEL. THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE /K VALUES RANGING FROM 3 TO 5/ AT LOWER LATITUDE STATIONS DURING LOCAL NIGHT TIME FOR THE NEXT 36 HOURS IN RESPONSE TO THE IB/SATELLITE PROTON EVENT OF 3 OCTOBER.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 OCT/0000Z ENDING 08 OCT/2400Z.

CLASS M OR GREATER 50/50/50

CLASS X 05/05/05

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 051400Z, 051700Z AND 052000Z WERE 107, 106 AND 103 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 06-08 OCT IS 108/106/102.

E. MAGNETIC A-FREDERICKSBURG FOR 04 OCT WAS 12. FOR 05 OCT ABOUT 11 PREDICTED AP FOR 06-08 OCT, 22/12/10.

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