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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 294 ISSUED 2200Z 21 OCT 1971

A CLASS M FLARE IS POSSIBLE

A. REGION 306 /NO8W01/ IS CLASSED BETA GAMMA WITH DELTA CONFIGURATION BY MT. WILSON. THE SUNSPOT GROUP IS ELONGATING E-W, DECREASING MAGNETIC GRADIENTS. THE 8.6 MM RADIOMETRIC TEMPERATURES BEGAN DECREASING 20 OCTOBER AND H-ALPHA PLAGE INTENSITY IS NOW NEAR NORMAL. REGION 312 /S12E78/, WHICH IS A RETURNING REGION ON ITS THIRD ROTATION, HAS A MODERATE SIZED UNIPOLAR SUNSPOT WITH WEAK ASSOCIATED PLAGE. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. REGION 306 IS EXPECTED TO DEGENERATE INTO A SIMPLE BIPOLE, DECREASING PROBABILITY OF ENERGETIC FLARES. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME UNSETTLED FOR APPROXIMATELY 48 HOURS AND THEN ACTIVE.

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

CLASS M OR GREATER 60/40/40

CLASS X 5/3/3

PROTON EVENTS 5/5/3

D. OTTAWA 10.7 CM FLUXES FOR 21/1400Z, 21/1700Z AND 21/2000Z WERE 125, 122 AND 126 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 22-24 OCT IS 128/128/125.

E. MAGNETIC A-FREDERICKSBURG FOR 20 OCT WAS 04. FOR 21 OCT ABOUT 03 PREDICTED AP FOR 22-24 OCT, 12/10/19.

SOLTERWARN

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