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HFUS BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 292 ISSUED 2200Z 19 OCT 1971

CLASS M FLARES ARE EXPECTED.

A. REGION 306 /NOSE24/ CONTINUES STRONG GROWTH PATTERN IN BOTH H-ALPHA AND SUNSPOT STRUCTURE. MT. WILSON CLASSIFIES THE SUNSPOT GROUP AS BETA WITH DELTA CONFIGURATION. THIS REGION PRODUCED A SMALL 1B FLARE BEGINNING AT 1304Z AND REACHING MAXIMUM ABOUT 1315Z. THE FIRST REPORT INDICATED THIS AS A TENFLARE AT 10CM WAVELENGTH. HOWEVER, SUBSEQUENT REPORTS SHOW APPROXIMATELY A 70 PERCENT INCREASE ABOVE BACKGROUND AT THIS WAVELENGTH.

IMPORTANCE 2 SWFS ACCOMPANIED THE FLARE. X-RAY ENERGY WAS AN M5. NEW REGIONS ARE EMERGING AT S14E15 AND NOSE51. THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE AS REGION 306 CONTINUES TO GROW. CLASS M FLARES EXPECTED CURRENTLY AT A RATE OF APPROXIMATELY ONE EVERY 36-48 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET FOR APPROXIMATELY 48 HOURS AND THEN BECOME UNSETTLED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 OCT/0000Z ENDING 22 OCT/2400Z.

CLASS M OR GREATER 75/75/75

CLASS X 05/08/08

PROTON EVENTS 02/05/08

D. OTTAWA 10.7 CM FLUXES FOR 19/1400Z, 19/1700Z AND 19/2000Z WERE 114, 111 AND 111 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 20-22 OCT IS 115/120/125.

E. MAGNETIC A-FREDERICKSBURG FOR 18 OCT WAS 02. FOR 19 OCT ABOUT 02. PREDICTED AP FOR 20-22 OCT, 03/04/14.

SOLTERWARN

SPAN

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