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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 323 ISSUED 2200Z 19 NOV 1971

MINOR ACTIVITY IS EXPECTED.

A. THE ONLY SIGNIFICANT SOLAR EVENT REPORTED DURING THE PAST 24 HOURS CONSISTED OF A CLASS M1 X-RAY BURST AT 19/1437Z. BOTH THE X-RAY EVENT AND THE ASSOCIATED SMALL MICROWAVE BURST WERE OF LONG DURATION AND COULD NOT BE RELIABLY CORRELATED WITH CHANGES IN H-ALPHA FEATURES. A NEW BIPOLAR PLAGE AND SMALL SPOTS HAVE APPEARED IN REGION 348 /S12W12/, JUST WEST OF REGION 342 /S13W06/.

SINCE THE PLAGE IN REGION 348 WAS BRIGHT AT THE TIME OF THE 1437Z EVENT, PERHAPS THE M1 BURST ORIGINATED THERE. REGIONS 342 AND 348 FORM A POTENTIALLY DYNAMIC CONFIGURATION, SINCE FURTHER DEVELOPMENT COULD PRODUCE A STRONG GRADIENT IN THE FIELDS BETWEEN THE TWO REGION. A FEW SMALL SURGES HAVE BEEN OBSERVED NEAR SE11, SUGGESTING THAT A REGION MAY CROSS THE LIMB SOON. OTHER CENTERS ARE UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST 24 HOURS.

B. SOLAR ACTIVITY PROBABLY WILL INCREASE SLIGHTLY DURING THE NEXT THREE DAYS, ESPECIALLY IF REGION 348 CONTINUES TO GROW AND INTERACT WITH REGION 342. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN QUIET.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 NOV/0000Z ENDING 22 NOV/2400Z.

CLASS M OR GREATER 35/40/45

CLASS X 02/04/05

PROTON EVENT 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 19/1400Z, 1700Z AND 2000Z WERE 110, 110 AND 106. PREDICTED 10.7 CM FLUXES FOR 20-22 NOV ARE 108/107/107.

E. MAGNETIC A-FREDERICKSBURG FOR 18 NOV WAS 06. FOR 19 NOV ABOUT 06. PREDICTED AP FOR 20-22 NOV ARE 07/06/05.

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