

KBOU

HFUS BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 039 ISSUED 2200Z 08 FEBRUARY 1972

ENERGETIC LIMB ACTIVITY IS POSSIBLE.

A. ONCE AGAIN A MAJOR EVENT HAS APPARENTLY OCCURRED BEHIND THE SE LIMB. OPTICALLY THE EVENT WAS OBSERVED AS A BRIGHT SURGE NEAR SE15 AT 08/0945Z FOLLOWED BY THE FORMATION OF A BRIGHT AND EXTENSIVE LOOP STRUCTURE NEAR SE15 AT 08/0950Z. THESE LOOPS EXTENDED TO 0.2 SOLAR RADIUS BEYOND THE LIMB AND WERE STILL VISIBLE AT 08/2030Z. AT 2700 MHZ A COMPLEX BURST OF 58 FLUX UNITS BEGAN 08/0806Z, PEAKED 08/0826Z, AND ENDED 08/0900Z. AT METER WAVELENGTHS WEAK CONTINUUM WAS REPORTED AT 08/0834 - 0844Z. X-RAY EMISSION AT 1-8A BEGAN AT ABOUT 08/0700Z. A SECONDARY PEAK OF CLASS C6 INTENSITY WAS RECORDED AT 08/0730Z; THIS WAS FOLLOWED BY A PRIMARY PEAK OF CLASS M9 INTENSITY AT 08/0910Z. THE X-RAY BURST DECAYED SLOWLY, REACHING THE CLASS C2 LEVEL BY 08/1700Z. STRONG SHORTWAVE FADEOUTS WERE REPORTED. THIS ACTIVITY MAY HAVE ORIGINATED FROM PREVIOUSLY ACTIVE REGION 015 WHICH SHOULD STILL BE ABOUT 15 DEGREES BEHIND THE LIMB NEAR S16. IN ANY CASE THE EVENT CAME FROM THE SAME GENERAL AREA OF THE SUN WHICH PRODUCED THE POSSIBLE MAJOR EVENT BEHIND THE SE LIMB ON 14 DECEMBER 1971. THE ENTIRE EAST LIMB FROM N40 TO S25 HAS SHOWN FREQUENT PROMINENCE AND/OR SURGE ACTIVITY. THE SOLAR DISK IS QUIET AND UNIMPRESSIVE. NEW SMALL SPOT GROUPS HAVE ROTATED INTO VIEW NEAR N16E75 /048/ AND N07E73 /047/. THE GEOMAGNETIC FIELD WAS UNSETTLED FROM 07/2100Z TO 08/0600Z.

B. ONLY MINOR ACTIVITY IS EXPECTED FROM THE VISIBLE DISK. ENERGETIC ACTIVITY, UP TO CLASS X, MUST BE CONSIDERED POSSIBLE FROM THE SE LIMB UNTIL THE APPROACHING REGION BECOMES FULLY VISIBLE. THE GEOMAGNETIC FIELD SHOULD BE UNSETTLED DURING LOCAL NIGHT AND BECOME GENERALLY UNSETTLED TO ACTIVE ON 11-12 FEBRUARY. NO SIGNIFICANT PROTON ENHANCEMENT IS EXPECTED FROM THE 08/0700Z EVENT. IF ONE SHOULD OCCUR IT IS EXPECTED TO BE RESTRICTED TO SATELLITE ALTITUDES AND PEAK ON 10 OR 11 FEBRUARY.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 09 FEB/0000Z ENDING 11 FEB/2400Z.

CLASS M OR GREATER 50/60/65

CLASS X 05/05/10

PROTON EVENT 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 08/1400Z 1700Z AND 2000Z WERE 108, 107 AND 107. PREDICTED 10.7 CM FLUXES FOR 09-11 FEB ARE 111/115/119.

E. MAGNETIC A-FREDERICKSBURG FOR 07 FEB WAS 06. FOR 08 FEB ABOUT 07. PREDICTED AP FOR 09-11 FEB ARE 09/12/14.

SOLTERWARN

SPAN

BT