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HFUS BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 336 ISSUED 2200Z 02 DECEMBER 1971

CLASS M FLARES ARE POSSIBLE.

A. A MAJOR RADIO FLARE HAS OCCURRED. OPTICALLY THE FLARE WAS AN IMP 1B WITH START AND END TIMES APPROXIMATELY 0105Z AND 0200Z. THE FLARE OCCURRED NEAR TO AND NORTH OF THE LEADER OF REGION 354 /S16 W74/. A MAJOR COMPLEX RADIO BURST BEGAN AT 0059Z, LASTING UNTIL 0502Z. CARNARVON REPORTED A MAXIMUM OF 1074 F.U. ABOVE BACKGROUND ON 2695 MHZ. THE XRAY EVENT WAS AN M6. A SMALL PARTICLE EVENT WAS MEASURED BY ATS-1 SATELLITE FOR THIS EVENT. MAXIMUM VALUES WERE CLN 5-21MEV, 0900Z, 25 PARTICLES CM-2 SEC-1 AND 21-70 MEV, 0730Z, 2 PARTICLES CM-2 SEC-1. THIS REGION ALSO PRODUCED A CLASS M1/IMP IN FLARE AT 1401Z. THE REGION IS APPROACHING WEST LIMB MAKING HALPHA ANALYSIS DIFFICULT. HOWEVER, NO OBSERVATORY REPORTS INDICATE ANY SIGNIFICANT CHANGES. REGION 355 /N14 W62/ HAS DEVELOPED SOME NEW SPOT STRUCTURE WITH ASSOCIATED PLAGE SO OZSRPUK REGION 364 /S06 E58/ CONTINUES SLOW EMERGENCE AS A SIMPLE BIPOLE. A REGION IS CROSSING EAST LIMB NEAR S15. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETLED. IN RETROSPECT, THE OSO-7 FE XV /284 ANGSTROM/ MAP SHOWED SIGNIFICANT CHANGES FROM 30 NOV TO 01 DEC FOR THE COMPLEX 353 AND 354. THERE WAS A MARKED INCREASE IN THE FLUX VALUE OF REGION 353 AND A STEEPING OF THE FLUX GRADIENT ON THE NORTH SIDE OF REGION 354.

B. CLASS M FLARES ARE POSSIBLE FROM REGIONS 354 AND 355. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED FOR APPROXIMATELY 36 HOURS AND THEN BECOME ACTIVE.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 03 DEC/0000Z ENDING 05 DEC/2400Z.

CLASS M OR GREATER 45/40/40

CLASS X 05/03/02

PROTON EVENT 08/08/05

D. OTTAWA 10.7 CM FLUXES FOR 02/1400Z 1700Z AND 2000Z WERE 116, 115 AND 113. PREDICTED 10.7 CM FLUXES FOR 03-05 DEC ARE 113/ 108/104.

E. MAGNETIC A-FREDERICKSBURG FOR 01 DEC WAS 07. FOR 02 DEC ABOUT 04. PREDICTED AP FOR 03-05 DEC ARE 05/10/18.

SOLTERWARN

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