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HFUS BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 297 ISSUED 2200Z 24 OCT 1971

MINOR FLARES EXPECTED NEXT 24 HOURS.

A. ONLY MINOR FLARES HAVE BEEN OBSERVED, MOSTLY IN REGION 306 (N09W42) WHERE SOME SLIGHT PLAGE AND SPOT DECLINE HAVE CONTINUED. REGION 308 (N18W22) HAS CONTINUED TO DEVELOP BUT IS NEARING THE END OF ITS GROWTH PHASE. FREQUENT MINOR SURGES HAVE BEEN REPORTED AT NE10 AND SE10 WHERE OLD REGIONS 280 AND 289 RESPECTIVELY ARE RETURNING. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED.

B. MINOR NON-ENERGETIC SUBFLARES ARE EXPECTED FROM REGION 306. ISOLATED CLASS M FLARES ARE LIKELY FROM THE REGION LATER IN ITS DECAY PHASE, PROBABLY 2-3 DAYS BEYOND WEST LIMB.

EMERGENCE OF NEW MAGNETIC FLUX IN THE REGION COULD TRIGGER SUCH OUTBURSTS AT ANY TIME. SUCH ACT VITY SHOULD PRODUCE AT LEAST SATELLITE LEVEL ENERGETIC PARTICLE ENHANCEMENT.

NO CLASS M ACTIVITY IS ANTICIPATED IN REGION 308. THE RETURNING REGIONS AT EAST LIMB ARE DOUBTFUL SOURCES OF ANY IMMEEIITE ENERGETIC ACTIVITY. THE GEOMAGNETIC FIELD IS EXPECTED TO BE SLIGHTLY UNSETLED THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 OCT/0000Z ENDING 27 OCT/2400Z.

CLASS M OR GREATER 40/40/40

CLASS X 05/05/05

PROTON EVENTS 15/20/25

D. OTTAWA 10.7 CM FLUXES FOR 24/1400Z, 24/1700Z AND 24/2000Z WERE 130, 128 AND 127 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 25-27 OCT IS 135/133/132.

E. MAGNETIC A-FREDERICKSBURG FOR 23 OCT WAS 07. FOR 24 OCT ABOUT 06 PREDICTED AP FOR 25-27 OCT, 05/04/03.

SOLTERWARN

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