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HFUS BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 328 ISSUED 2200Z 24 NOVEMBER 1971

CLASS M EVENTS EXPECTED.

A. REGION 355 /N14E45/ PRODUCED AN IMPORTANCE IN POSSIBLE CLASS M EVENT AT 24/1857Z. THE FLARE PRODUCED IONOSPHERIC EFFECTS BUT NO RADIO BURST. OTHERWISE ONLY CLASS C SUBFLARES HAVE BEEN OBSERVED. REGION 355 CONTAINS MIXED MAGNETIC POLARITIES BUT APPARENTLY NO LONGER CONTAINS A DELTA CONFIGURATION. PLAGE BETWEEN THE 342/348 COMPLEX CENTERED NEAR S12W71 HAS PERIODICALLY BEEN NEAR FLARE BRIGHTNESS. NEW SPOT GROUPS ARE DEVELOPING NEAR NO9E04 /357/ AND S09E37 /358/. A GEOMAGNETIC DISTURBANCE OF STORM INTENSITY BEGAN ABOUT 23/1900Z AND ENDED ABOUT 24/1000Z.

MIDDLE LATITUDE K-INDICES OF 4 AND 5 CHARACTERIZED THE DISTURBANCE.

B. ENERGETIC EVENTS ARE POSSIBLE FROM THREE PLAGE REGIONS. LISTED IN ORDER OF DECREASING PROBABLE EVENT SIZE AND DECREASING PROBABILITY OF OCCURRENCE, THESE PLAGE REGIONS CONTAIN SPOT GROUPS 355, 342/348, AND 354/353/358. SPOT GROUPS 354 AND 353 ARE PRESENTLY LOCATED NEAR S16E30 AND S09E30 RESPECTIVELY. UNSETTLED TO ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED TO PERSIST THROUGHOUT THE THREE DAY FORECAST PERIOD.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 NOV/0000Z ENDING 28 NOV/0000Z.

CLASS M OR GREATER 85/85/85

CLASS X 20/20/15

PROTON EVENT 15/20/15

D. OTTAWA 10.7 CM FLUXES FOR 24/1400Z AND 1700Z WERE 125 AND 127.

PREDICTED 10.7 CM FLUXES FOR 25-27 NOV ARE 125/126/125.

E. MAGNETIC A-FREDERICKSBURG FOR 23 NOV WAS 33. FOR 24 NOV ABOUT 21. PREDICTED AP FOR 25-27 NOV ARE 18/15/10.

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