

NNNN

KBOU

HXUS BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 324 ISSUED 2200Z 20 NOV 1971

A CLASS M EVENT IS LIKELY DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS INCREASED DURING THE PAST 24 HOURS.

A CLASS M2 EVENT WITHOUT A VISIBLE OPTICAL SOURCE

BEGAN SLOWLY AT 20/0621Z, REACHED A PEAK AT 0721Z, AND ENDED

AT 0729Z. A BRIGHT SURGE/PROMINENCE WAS OBSERVED

AT 20/2040Z NEAR NE15. THIS EVENT APPEARED TO ORIGINATE BEHIND

THE EAST LIMB FROM A REGION NOT YET VISIBLE. OLD REGION 315

SHOULD PRESENTLY BE LOCATED NEAR THE PROBABLE SOURCE OF THIS

EVENT. THE 2040Z EVENT WAS ACCOMPANIED BY A PROBABLE CLASS M

X-RAY BURST, A MODERATE SPA, AND SMALL RADIO BURSTS ON

184MHZ, 1415MHZ, AND 2695MHZ. AT 2695MHZ, A BURST OF ABOUT

16 FLUX UNITS ABOVE BACKGROUND WAS RECORDED. REGION 342 (S13W19)

AND REGION 348 (S12W25) HAVE DEVELOPED, AND MUTUAL INTERACTION

IS OCCURRING. CONTINUED GROWTH IN THE TRAILER OF REGION 348

COULD PRODUCE A STRONG REVERSED-POLARITY FIELD CONNECTING TO THE

LARGE SPOT IN REGION 342. OTHER CENTERS ARE RELATIVELY UNIM-

PRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING

THE PAST 24 HOURS.

B. SEVERAL SMALL CLASS M FLARES MAY BE PRODUCED BY THE REGION

BEHIND THE LIMB NEAR NE15 DURING THE THREE-DAY FORECAST PERIOD.

REGIONS 342 AND 348 ALSO MAY DEVELOP ADDITIONALLY AND PRODUCE

ONE OR TWO SMALL CLASS M EVENTS. QUIET GEOMAGNETIC CONDITIONS

PROBABLY WILL CONTINUE FOR THE NEXT 72 HOURS.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING

21 NOV/0000Z ENDING 23 NOV/2400Z.

CLASS M OR GREATER 65/65/70

CLASS X 05/05/05

PROTON EVENT 05/07/07

D. OTTAWA 10.7 CM FLUXES FOR 20/1400Z, 1700Z AND 2000Z WERE 119,

116 AND 114. PREDICTED 10.7 CM FLUXES FOR 21-23 NOV ARE 117/116/114.

E. MAGNETIC A-FREDERICKSBURG FOR 19 NOV WAS 06. FOR 20 NOV ABOUT

03. PREDICTED AP FOR 21-23 NOV ARE 05/04/07.

SOLTERWARN

SPAN

BT