

NNNN

KBOU

HXUS BOU 192200

SDF NUMBER 353 ISSUED 2200Z 19 DEC 1971

MINOR SOLAR FLARES AND UNSETTLED GEOMAGNETIC CONDITIONS
ARE EXPECTED.

A. NO ENERGETIC SOLAR ACTIVITY HAS BEEN REPORTED DURING THE PAST 24 HOURS. OCCASIONAL SUBFLARES HAVE BEEN SCATTERED AMONG THE VARIOUS DISK REGIONS. REGION 391 (S17E55) IS THE MOST IMPRESSIVE DISK FEATURE, CONTAINING ENHANCED PLAGE AND AN ABNORMAL MAGNETIC CONFIGURATION. AN EAST-WEST NEUTRAL LINE RUNS BETWEEN A NORTHERN SPOT OF TRAILING POLARITY AND A SOUTHERN SPOT OF LEADING POLARITY. SEVERAL BRIGHTENINGS HAVE BEEN OBSERVED IN REGION 388 (S15E39) AT THE EASTERN TIP OF THE LEADER SPOT. ENHANCED PLAGE HAS ALSO BEEN OBSERVED IN REGIONS 380 (N13W30) AND 384 (N09E08). UNSETTLED GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE PAST 24 HOURS. PROTON COUNTING RATES ON THE ATS-1 GEOSTATIONARY SATELLITE AT 19/2100Z WERE APPROXIMATELY 12 PARTICLES/CM2/SEC AT 5-21 MEV AND 0.9 PARTICLES/CM2/SEC AT 21-70 MEV.

B. SOLAR ACTIVITY PROBABLY WILL GENERALLY REMAIN AT A LOW LEVEL, ALTHOUGH REGION 391 MAY PRODUCE ONE OR TWO CLASS M FLARES DURING THE THREE-DAY FORECAST PERIOD. UNSETTLED GEOMAGNETIC CONDITIONS PROBABLY WILL CONTINUE THROUGH THE NEXT 72 HOURS.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 DEC/0000Z ENDING 22 DEC/2400Z.

CLASS M OR GREATER 65/60/55

CLASS X 05/05/05

PROTON EVENT 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 19/1400Z, 1700Z AND 2000Z WERE 138, 139 AND 138. PREDICTED 10.7 CM FLUXES FOR 20-22 DEC ARE 140/142/139.

E. MAGNETIC A-FREDERICKSBURG FOR 18 DEC WAS 22. FOR 19 DEC ABOUT 14. PREDICTED AP FOR 20-22 DEC ARE 16/15/12.

SOLTERWARN

SPAN

BT