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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 101
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 APRIL 1980
IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. TWO M-CLASS EVENTS WERE OBSERVED TODAY, BOTH FROM REGION 2372 (N 12W 49); M4.1 AT 0922Z (MAX) AND M3.1B AT 1724Z. REGIONS 2370 (N 23W 32) AND 2377 (S 08E 40) WERE ALSO OBSERVED TO PRODUCE SEVERAL FLARES DURING THE PERIOD. SLIGHT DECAY WAS OBSERVED IN 2370 AND 2372 BUT THEY STILL REMAIN CAPABLE OF PRODUCING M OR X - CLASS EVENTS. REGION 2375 WAS OBSERVED TODAY WITH A STRONG DELTA MAGNETIC CONFIGURATION.
IB. MODERATE SOLAR ACTIVITY LEVELS SHOULD CONTINUE WITH M-CLASS EVENTS LIKELY IN 2370, 2372, OR 2375.
II. THE GEOMAGNETIC FIELD WAS AT ACTIVE TO MINOR STORM LEVELS EARLIER TODAY. TWO K-INDICES OF FIVE WERE OBSERVED WITH UNSETTLED CONDITIONS DURING THE REMAINDER OF THE PERIOD. ACTIVE OR VERY UNSETTLED CONDITIONS ARE FORECAST FOR THE NEXT 72 HOURS, IN RESPONSE TO THE EXPECTED CONTINUED SOLAR FLARE ACTIVITY.
III. EVENT PROBABILITIES 11 - 13 APRIL
CLASS M 90/90/90
CLASS X 30/30/30
PROTON 30/30/30
PCAF YELLOW
IV. OTTAWA 10.7 CM FLUX
OBSERVED 10 APR 248
PREDICTED 11-13 APR 248/246/242
90-DAY MEAN 10 APR 191
V. GEOMAGNETIC INDICES
OBSERVED FREDERICKSBURG 9 APR 22
ESTIMATED AFR/APR 10 APR 23/26
PREDICTED AFR/APR 11-13 APR 16/18 16/18 16/18
SOLTERWARN
BT