

HFUS 1 BOU 102200

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
(N12W49): M4/1N AT 0922Z (MAX) AND M3/1B AT 1724Z. REGIONS 2370
(N23W32) AND 2377 (S08E40) 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 UNSET-
TLED 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 A INDICES

OBSERVED FREDERICKSBURG 9 APR 22

ESTIMATED AFR/AP 10 APR 23/26

PREDICTED AFR/AP 11-13 APR 16/18 16/18 16/18

SOLTERWARN

BT