

HFUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 022

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PERIOD. C CLASS XRAY SUBFLARE CLASS OPTICAL EVENTS HAVE BEEN OBSERVED IN REGIONS 4393(S16W84), 4396(S05W17), 4397(N17E55), AND 4399(N15E87). REGION 4399 IS A NEW REGION MOVING ONTO THE DISK TODAY CLOSE TO THE LOCATION OF OLD REGION 4387. REGIONS APPEAR GENERALLY STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW WITH POSSIBLE BRIEF PERIODS AT MODERATE DURING THE FORECAST INTERVAL. THE MOST LIKELY SOURCE OF M CLASS FLARE ACTIVITY IS THE REGION COMPLEX 4397, 4398, 4399 ON THE EAST EDGE OF THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED FOR THE REPORT PERIOD. A SLIGHT TREND TOWARD QUIETER LEVELS APPEARS TO BE IN PROGRESS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO RISE TO ACTIVE LEVELS DURING THE UT DAY 23 JAN. ACTIVE TO NEAR ACTIVE LEVELS ARE EXPECTED THROUGH ABOUT 24 JAN DUE TO THE CORONAL HOLE NOW PAST CENTRAL MERIDIAN.

III. EVENT PROBABILITIES 23 JAN-25 JAN

CLASS M 35/40/45

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 JAN 114

PREDICTED 23 JAN-25 JAN 120/123/125

90 DAY MEAN 22 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 JAN 012/014

ESTIMATED AFR/AP 22 JAN 012/015

PREDICTED AFR/AP 23 JAN-25 JAN 018/020-014/020-012/015

SOLTERWARN

BT