

HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 014

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. REGION 4393 (S15E18) REMAINS THE LARGEST SPOT GROUP ON THE DISK WITH A F TYPE SPOT GROUP CLASSIFICATION AND A BETA GAMMA MAGNETIC CONFIGURATION. THIS REGION CONTINUES TO PRODUCE C LEVEL X-RAY FLARES ( THE LARGEST BEING A C 1.8), OPTICAL SUBFLARES AND RADIO BURSTS RANGING FROM 245 MHZ TO 8800 MHZ BUT APPEARS UNABLE TO PRODUCE MODERATE LEVEL ACTIVITY. REGION 4392 (S13E05) HAS PRODUCED SEVERAL OPTICAL SUBFLARES BUT NO X-RAY EVENTS. THIS REGION IS A C TYPE SPOT GROUP AND APPEARS TO HAVE INCREASED SLIGHTLY IN AREA. NO NEW REGIONS WERE NUMBERED THIS PERIOD AND THE REST OF THE DISK APPEARS STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE THIS PERIOD. ANY MODERATE LEVEL ACTIVITY WOULD MOST LIKELY ORIGINATE IN REGION 4393.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET AT MIDLATITUDES AND UNSETTLED TO ACTIVE AT HIGH LATITUDES THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE UNSETTLED AT ALL LATITUDES THE FIRST DAY OF THE FORECAST PERIOD. THE REMAINDER OF THE FORECAST PERIOD IT SHOULD BE QUIET AT MIDLATITUDES AND UNSETTLED AT HIGH LATITUDES.

III. EVENT PROBABILITIES 15 JAN-17 JAN

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JAN 103

PREDICTED 15 JAN-17 JAN 102/101/100

90 DAY MEAN 14 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JAN 006/012

ESTIMATED AFR/AP 14 JAN 005/015

PREDICTED AFR/AP 15 JAN-17 JAN 008/010-005/010-005/010

SOLTERWARN

BT