

COMMAND? T

HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 088

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100 TO 29/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS WITH ONLY A FEW SUB CLASS C ENHANCEMENTS OBSERVED. VERY MINOR STRUCTURAL CHANGES HAVE BEEN OBSERVED IN EXISTING DISK REGIONS. BETWEEN 28/0000Z-2040Z A THIN TENUOUS FILAMENT LOCATED AT S02W17-N25E01 FADED. IT HAS SINCE REFORMED WITH NO SIGNIFICANT CHANGE IN CONFIGURATION. PREVIOUSLY SPOTLESS REGION 4123 (S13W22) HAS DEVELOPED A SMALL CLASS A SPOT IN THE TRAILER OF ITS LARGE DIFFUSE FLARE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO VERY LOW FOR THE NEXT THREE DAYS. WITH ONLY MINOR REGIONS ON THE DISK AND NO SIGNIFICANT REGIONS EXPECTED TO RETURN, CLASS C FLARES SHOULD BE AN INFREQUENT OCCURRENCE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS AT MINOR STORM LEVELS INTERSPERSED THROUGH THE 24 HOUR PERIOD. THIS DISTURBANCE IS THE RESULT OF A CORONAL HOLE RELATED HIGH SPEED SOLAR WIND STREAM IMPACTING THE EARTH.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD CONTINUE AT ACTIVE LEVELS THROUGH 30 MAR WITH MINOR STORM CONDITIONS EXPECTED FOR LOCAL NIGHTTIME SECTORS. THE FIELD SHOULD BEGIN TO QUIET TO GENERALLY ACTIVE CONDITIONS ON 31 MAR BECOMING UNSETTLED TO SLIGHTLY ACTIVE ON 01 APR.

III. EVENT PROBABILITIES 30 MAR-01 APR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAR 099

PREDICTED 30 MAR-01 APR 098/095/093

90 DAY MEAN 29 MAR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 MAR 024/034

ESTIMATED AFR/AP 29 MAR 028/035

PREDICTED AFR/AP 30 MAR-01 APR 025/025-018/020-012/015

SOLTERWARN

BT