

FUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 090

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 31 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100 TO 31/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS WITH ONLY SUB CLASS C FLARE ENHANCEMENTS BEING OBSERVED. REGION 4127 (S17E08) WAS GROWING MODERATELY RAPIDLY YESTERDAY BUT THAT GROWTH RATE HAS SLOWED IN THIS REVERSE POLARITY CLASS D GROUP. A SMALL CLASS B SUNSPOT GROUP EMERGED AT S13E29 AND WAS NUMBERED 4133.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW FOR THE NEXT THREE DAYS. CLASS C FLARES SHOULD BE INFREQUENT. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB DURING THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z: THE GEOMAGNETIC FIELD CONTINUED GENERALLY ACTIVE WITH MINOR STORM CONDITIONS EXPERIENCED AT SEVERAL INTERVALS DURING THE PAST 24 HOURS. SOLAR WIND DATA INDICATE THIS DISTURBANCE IS STILL RELATED TO A WESTERN HEMISPHERE CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD REMAIN ACTIVE INTO 01 APR WITH BRIEF PERIODS AT MINOR STORM LEVELS POSSIBLE IN NIGHTTIME SECTORS ON THAT DAY. THE FIELD SHOULD THEN BECOME UNSETTLED TO SLIGHTLY ACTIVE FOR 02-03 APR.

III. EVENT PROBABILITIES 01 APR-03 APR

CLASS M 05/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAR 099

PREDICTED 01 APR-03 APR 100/100/100

90 DAY MEAN 31 MAR 128

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 MAR 020/030

ESTIMATED AFR/AP 31 MAR 020/035

PREDICTED AFR/AP 01 APR-03 APR 015/015-012/015-012/015

SOLTERWARN

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