

FUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 091

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 APR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100 TO 01/2100Z: SOLAR ACTIVITY CONTINUED LOW FOR THE PAST 24 HOURS. REGION 4127 (S17W05) HAS SHOWN SOME INCREASE IN BOTH AREA AND NUMBER OF SPOTS BUT MORE SIGNIFICANTLY A SMALL DELTA CONFIGURATION HAS FORMED IN ITS TRAILER. OVERALL REGION MAGNETIC GRADIENTS REMAIN LOW BUT LOCALIZED AREAS IN THE TRAILER ARE EXHIBITING MODERATELY HIGH GRADIENTS. A SMALL CLASS B GROUP BEGAN EMERGING YESTERDAY AND WAS NUMBERED REGION 4134 (S15W50) TODAY. SMALL SURGING HAS BEEN OBSERVED NEAR SE15. SEVERAL SMALL FILAMENTS DISAPPEARED DURING THE PERIOD FROM THE SOUTHEAST AND SOUTHWEST QUADRANTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE GENERALLY LOW FOR THE NEXT THREE DAYS. THE POSSIBILITY OF AN ISOLATED LOW LEVEL CLASS M FLARE FROM REGION 4127 EXISTS - MAJOR FLARES ARE NOT LIKELY. THE LONGITUDES DUE TO RETURN DURING THE NEXT 8 DAYS HAVE IN THE RECENT PAST BEEN DEVOID OF ACTIVE REGIONS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PERIOD. THE NEAR MINOR STORM CONDITIONS EXPERIENCED SINCE 28 MAR ARE SLOWLY SUBSIDING.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT UNSETTLED TO SLIGHTLY ACTIVE LEVELS FOR 02-03 APR. THE MULTIPLE SMALL FILAMENT DISAPPEARANCES MENTIONED ABOVE SHOULD BEGIN TO BRING THE FIELD TO ACTIVE LEVELS LATE ON 04 APR.

III. EVENT PROBABILITIES 02 APR-04 APR

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 APR 101

PREDICTED 02 APR-04 APR 103/105/105

90 DAY MEAN 01 APR 128

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 MAR 024/032

ESTIMATED AFR/AP 01 APR 017/025

PREDICTED AFR/AP 02 APR-04 APR 012/015-012/015-015/015

SOLTERWARN

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