

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 097

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. THE LARGEST EVENT WAS AN M1/1B PARALLEL RIBBON FLARE FROM REGION 4455 (S15W61) THAT MAXED AT 0303 UT. THE FLARE WAS ACCOMPANIED BY MINOR RADIO BURSTS AT DECIMETRIC WAVELENGTHS AND MODERATE TYPE IV RADIO EMISSION LASTING FOR MORE THAN 8 HOURS. UMBRAL COVERAGE OF THE FLARE WAS GREATER THAN 20 PERCENT. REGION 4455 HAS REGAINED ITS DELTA MAGNETIC CONFIGURATION BUT IS DECAYING IN WHITE LIGHT. REGION 4460 (S08W17) GREW RAPIDLY, QUADRUPLING IN AREA AND SPOT COUNT. C-CLASS SUBFLARE ACTIVITY HAS OCCURRED IN THIS REGION TODAY. REGION 4458 (N20W47) REMAINED STABLE IN H-ALPHA AND WHITE LIGHT WITH NO ACTIVITY BEING REPORTED FROM THERE IN RECENT HOURS. NO NEW REGIONS WERE NUMBERED BUT REGION 4464 (S12E09) REGAINED A-TYPE SPOTS. NO LIMB ACTIVITY WAS OBSERVED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW FOR THE NEXT THREE DAYS. REGIONS 4455 AND 4458 OFFER A SLIGHT CHANCE FOR ISOLATED MODERATE FLARES. NO REGIONS OF SIGNIFICANCE ARE EXPECTED TO RETURN OVER THE EAST LIMB DURING THIS FORECASTING PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD BEGAN THIS REPORTING PERIOD AT MINOR TO MAJOR STORM LEVELS, BUT ACTIVITY THEN STEADILY DECLINED TOWARD UNSETTLED TO OCCASIONALLY QUIET CONDITIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT THREE DAYS, WITH NEAR-QUIET CONDITIONS TOMORROW. OCCASIONAL ACTIVE PERIODS ARE POSSIBLE ON 8 APRIL IN RESPONSE TO THE M1/1B FLARE REPORTED ABOVE.

III. EVENT PROBABILITIES 07 APR-09 APR

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 APR 113

PREDICTED 07 APR-09 APR 110/105/100

90 DAY MEAN 06 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 APR 035/058

ESTIMATED AFR/AP 06 APR 012/020

PREDICTED AFR/AP 07 APR-09 APR 010/015-015/020-010/015

SOLTERWARN

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