

FUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 219

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z TO 07/2100Z: SOLAR ACTIVITY BRIEFLY RETURNED TO MODERATE LEVELS EARLY IN THE PERIOD. AT 07/0736Z NEW REGION 4278 (S06E76) PRODUCED AN M1/SN. ONLY MINOR RADIO EMISSION ACCOMPANIED THIS FLARE. REGION 4278 CONTAINS SEVERAL SPOTS WITH PENUMBRA AND MODERATE PLAGE. SURGE ACTIVITY CONTINUES IN THIS AREA. ADDITIONAL REGIONS MAY BE AT THE EAST LIMB. REGION 4263 (S10W64) CONTINUES ITS SLOW DECLINE WHILE PRODUCING ONLY SMALL C CLASS EVENTS. SOME RESTRUCTURING CONTINUES IN THE TRAILER OF REGION 4263. ALL OTHER REGIONS APPEAR TO BE DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT A LOW LEVEL. THE CHANCES FOR ENERGETIC ACTIVITY IS DECREASING WITH THE DECLINE IN REGION 4263. INFREQUENT CLASS M FLARES ARE POSSIBLE FROM THIS AREA BEFORE WEST LIMB TRANSIT AND FROM REGION 4278.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD CONTINUES TO BE QUIET TO SLIGHTLY UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET TO UNSETTLED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 08 AUG-10 AUG

CLASS M 40/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 AUG 138

PREDICTED 08 AUG-10 AUG 134/130/126

90 DAY MEAN 07 AUG 135

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 AUG 006/008

ESTIMATED AFR/AP 07 AUG 007/015

PREDICTED AFR/AP 08 AUG-10 AUG 012/015-010/015-012/015

SOLTERWARN

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