

FUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 224

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY REMAINS LOW. HOWEVER, THE FREQUENCY OF SMALL FLARES, RADIO AND XRAY BURSTS HAS INCREASED DRAMATICALLY. THE COMPLEX OF REGIONS 4278 (S06E12), 4279 (S10E06) AND 4280 (S02E06) IS RESPONSIBLE FOR THIS FLURRY OF ACTIVITY. THE COMPLEXITY OF THESE REGIONS HAS RELAXED SOMEWHAT AND IT IS DOUBTFUL IF THE DELTA CONFIGURATION STILL EXIST. THIS COMPLEX REMAINS WELL STRUCTURED AND WOULD APPEAR CAPABLE OF ENERGETIC ACTIVITY AT ANY TIME. THE OTHER DISK REGIONS ARE SMALL AND SIMPLE. REGION 4284 (N18E75) ROTATED ONTO THE DISK DURING THE PAST 24 HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE AT MODERATE LEVELS UNTIL SOME SIGNS OF SIGNIFICANT DECAY OCCURS IN 4278 AND 4279.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD BECAME DISTURBED NEAR 120700UT AND HAS BEEN AT ACTIVE LEVELS SINCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO REMAIN ACTIVE FOR ANOTHER 36 TO 48 HOURS AS THIS RECURRENT ACTIVITY CONTINUES.

III. EVENT PROBABILITIES 13 AUG-15 AUG

CLASS M 80/80/80

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 AUG 155

PREDICTED 13 AUG-15 AUG 155/157/157

90 DAY MEAN 12 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 AUG 007/011

ESTIMATED AFR/AP 12 AUG 022/030

PREDICTED AFR/AP 13 AUG-15 AUG 018/025-015/020-013/020

SOLTERWARN

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