

FUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 229

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100 TO 17/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4279 (S08W62) HAS PRODUCED TWO M1 X-RAY FLARES. THE SECOND M REACHED MAXIMUM AT 1906Z AND WAS ASSOCIATED WITH A 1N OPTICAL FLARE. THIS REGION CONTINUES TO DECAY BUT REFUSES TO DIE A QUIET DEATH. THE AREA FORMALLY DESIGNATED 4284 AND 4286 HAS NOW BEEN COMPLETELY ASSIGNED TO 4284 (N19E10). ONE NEW REGION WAS NUMBERED THIS PERIOD, 4288 (N13E81), A H TYPE SPOT GROUP. ALL OTHER REGIONS APPEAR STABLE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY LOW WITH ISOLATED M CLASS X-RAY FLARES POSSIBLE FROM REGION 4279.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT UNSETTLED LEVELS ON THE 18TH, INCREASING TO ACTIVE LEVELS ON THE 19TH AND 20TH OF AUGUST. THE INCREASE IS DUE TO CORONAL HOLE INFLUENCED ACTIVITY MENTIONED IN YESTERDAYS PRIMARY FORECAST.

III. EVENT PROBABILITIES 18 AUG-20 AUG

CLASS M 60/40/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 AUG 124

PREDICTED 18 AUG-20 AUG 122/120/118

90 DAY MEAN 17 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 AUG 003/008

ESTIMATED AFR/AP 17 AUG 007/010

PREDICTED AFR/AP 18 AUG-20 AUG 010/015-020/020-025/020

SOLTERWARN

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