

FUS 3: BOU /162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 228

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. THE COMPLEX OF REGIONS 4278, 4279 AND 4280 HAS BEEN LIMITED TO C-CLASS XRAY AND OPTICAL ~~SUBLARE~~ ACTIVITY. THIS COMPLEX HAS DECAYED SINCE THE LAST PRIMARY FORECAST. REGION 4278 (S05W41) IS NOW CONSIDERED A SPOTLESS REGION. REGIONS 4279 (S08W49) AND 4280 (S01W47) ARE E TYPE AND H TYPE GROUPS RESPECTIVELY. THE BETA GAMMA MAGNETIC CONFIGURATION IS STILL PRESENT IN REGION 4279. ONE NEW REGION WAS NUMBERED THIS PERIOD, 4287 (S17E14) AN A 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 EVENTS POSSIBLE FOR THE NEXT COUPLE OF DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE UNSETTLED THE FIRST TWO DAYS OF THE FORECAST PERIOD. THE THIRD DAY IT SHOULD BECOME ACTIVE DUE TO RECURRENT CORONAL HOLE INFLUENCED ACTIVITY.

III. EVENT PROBABILITIES 17 AUG-19 AUG

CLASS M 70/60/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 AUG 129

PREDICTED 17 AUG-19 AUG 129/128/120

90 DAY MEAN 16 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 AUG 009/015

ESTIMATED AFR/AP 16 AUG 004/015

PREDICTED AFR/AP 17 AUG-19 AUG 014/015-010/015-020/020

SOLTERWARN

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