

HFUS 3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 232

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100Z TO 20/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGIONS 4282 (N08W54) AND 4288 (N14E46) HAVE CONTRIBUTED A FEW OPTICAL SUBFLARES.

REGION 4288 IS THE MOST IMPRESSIVE REGION ON THE DISK WITH AN E TYPE SPOT CLASSIFICATION AND HAS CONTRIBUTED CLASS C X-RAY FLARES. ONE REGION WAS NUMBERED THIS PERIOD, 4289 (S12E75), AN A TYPE SPOT GROUP. THE REST OF THE REGIONS ON THE DISK APPEAR UNIMPRESSIVE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. REGION 4288 APPEARS TO BE THE ONLY REGION CAPABLE OF SIGNIFICANT FLARE ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD INCREASE TO ACTIVE LEVELS FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD AND THEN RETURN TO UNSETTLED CONDITIONS ON THE THIRD DAY.

III. EVENT PROBABILITIES 21 AUG-23 AUG

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 AUG 116

PREDICTED 21 AUG-23 AUG 116/116/120

90 DAY MEAN 20 AUG 133

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 AUG 008/013

ESTIMATED AFR/AP 20 AUG 016/015

PREDICTED AFR/AP 21 AUG-23 AUG 020/015-015/015-012/015

SOLTERWARN

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