

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 241

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 AUGUST 1978

IA. SOLAR ACTIVITY HAS BEEN VERY LOW BUT INCREASING. SUBFLARES AND COMPLEX ERUPTIVE PROMINENCES HAVE BECOME MORE FREQUENT IN REGION 1272 (S30°E 75°) WHICH HAS ROTATED INTO VIEW WITH A CLASS D SPOT GROUP. A LARGER BUT LESS ACTIVE CLASS E SPOT GROUP HAS ROTATED ONTO THE VISIBLE DISK AT N15°E74 (REGION 1271). REGION 1264 (S22W63) HAS REFORMED WITH BRIGHT PLAGE AND SMALL SPOTS WHILE NEARBY REGIONS 1259 AND 1268 HAVE QUICKLY FADED. RENEWED MINOR GROWTH HAS BEEN OBSERVED IN REGIONS 1265 (N10W11), 1266 (N20E26) AND 1269 (N12W62).

IB. CONTINUED GROWTH IN SEVERAL ACTIVE REGIONS IS EXPECTED TO RAISE ACTIVITY TO A LOW LEVEL. ADDITIONAL REGIONS ARE EXPECTED TO RETURN TO EAST LIMB DURING THE NEXT THREE DAYS.

II. THE GEOMAGNETIC STORM CONTINUED WITH MODERATE INTENSITY EARLY TODAY AND THEN STEADILY DIMINISHED. SHORT PERIODS OF ACTIVE CONDITIONS MAY OCCUR IN THE NEXT 12 HOURS BEFORE BECOMING UNSETTLED TO QUIET. A RECURRENT STORM IS EXPECTED TO COMMENCE EARLY ON 31 AUGUST.

III. EVENT PROBABILITIES 30 AUGUST - 01 SEPTEMBER

CLASS M 25/40/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 AUGUST 114

PREDICTED 30 AUGUST - 01 SEPTEMBER 122/127/132

90-DAY MEAN 29 AUGUST 130

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 AUGUST 78

ESTIMATED AFR/AP 29 AUGUST 35/40

PREDICTED AFR/AP 30 AUGUST - 01 SEPTEMBER 15/15 - 25/25 - 20/20

SOLTERWARN