

HFUS 1 BOU 19200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 232

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 AUGUST 1980

IA. SOLAR ACTIVITY HAS BEEN RELATIVELY LOW DURING THE PAST 24 HOURS. SOME 19 C-CLASS SUBFLARES HAVE BEEN PRODUCED BY THE 15 SPOTTED REGIONS ON THE VISIBLE DISK. REGIONS 2629 (N19E12) AND REGION 2626 (S09W25) HAVE EACH PRODUCED HALF A DOZEN OF THESE SUBFLARES (WITH X-RAY LEVELS NO HIGHER THAN C3). REGION 2629, WHICH HAS BEEN QUIET FOR A FEW DAYS, IS NOW FLARING BUT HAS NOT CHANGED SIGNIFICANTLY IN H-ALPHA OR WHITE LIGHT. REGION 2626 HAS GROWN SUBSTANTIALLY SINCE YESTERDAY BUT IS STILL REASONABLY SMALL. REGION 2628 (N10W07), WHICH WAS MOST ACTIVE YESTERDAY, HAS SPREAD IN LONGITUDE AND WEAKENED. NEW REGION 2633 (S30W61) HAS APPEARED SINCE YESTERDAY AND IS ALREADY A SOLID D-CLASS GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. NO REGIONS CURRENTLY VISIBLE ON THE SUN WOULD SEEM TO POSSESS MAJOR FLARE POTENTIAL. THERE ARE NO SIGNS OF STRONG REGIONS NEARING THE EAST LIMB, SO ACTIVITY LEVELS SEEM DESTINED TO DIMINISH FURTHER.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE NEXT 72 HOURS, WITH LEVELS OF ACTIVITY GRADUALLY DECREASING.

III. EVENT PROBABILITIES 20 AUGUST - 22 AUGUST

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 AUGUST 197

PREDICTED 20-22 AUGUST 194/190/182

90-DAY MEAN 19 AUGUST 193

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 AUGUST 18

ESTIMATED AFR/AP 19 AUGUST 19/21

PREDICTED AFR/AP 20-22 AUGUST 13/15 - 09/12 - 08/12

SOLTERWARN

BT