

HEUS 1 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SD F NUMBER 252

JOINT USAF/NASA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 SEPTEMBER 1980.

I. SOLAR ACTIVITY HAS BEEN MODERATE. TWO SIGNIFICANT EVENTS OCCURRED BACK-TO-BACK. THE FIRST WAS A M3/SB-SPRAY AT 0505Z (X-RAY MAX) FROM REGION 2665 (N13E78). STRONG SHORTWAVE FADE THROUGH 18 MHZ AND RADIO BURSTS FROM DEKAMETRIC THROUGH CENTIMETRIC RANGE OCCURRED. THE 2695 MHZ BURST WAS 48 FLUX UNITS. THEN REGION 2645 (S07W84) PRODUCED A M8/2B AT 0530Z (X-RAY MAX). THE OPTICAL FLARE WAS FAIRLY EXPLOSIVE WITH SEVERAL ERUPTIVE CENTERS AND EJECTA TO 0.2 RADII. PARALLEL RIBBONS FORMED WITH GREATER THAN 20 PER CENT UMBRAL COVERAGE. APPROXIMATELY HALF OF THE FLARE WAS SOUTH EAST OF THE MAIN STRUCTURE OF REGION 2645. THE OPTICAL FLARE WAS A LARGE 12B, POSSIBLY A SMALL 3B. CULCOORA REPORTED MODERATE INTENSITY TYPE II (75-250 MHZ) BEGINNING AT 0524Z AND LASTING FOR 37 MINUTES. MODERATE SHORTWAVE FADE AND CENTIMETRIC BURSTS OCCURRED. THE 2695 MHZ BURST WAS 130 FLUX UNITS. ADDITIONALLY, REGION 2665 PRODUCED A M1/1B AT 1910Z. THE 2695 MHZ BURST FOR THIS FLARE WAS 110 FLUX UNITS. UNFORTUNATELY, BOTH REGIONS WHICH HAVE BEEN ACTIVE TODAY ARE TOO CLOSE TO THE LIMB TO EVALUATE PROPERLY. OTHER DISK REGIONS HAVE BEEN STABLE WITH REGIONS 2666 (S11W22), 2667 (S05E19), AND 2668 (N17E69) HAVING EMERGED TODAY.

II. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH REGION 2665 BEING THE REGION MOST LIKELY TO PRODUCE THE CLASS M ACTIVITY THROUGH THE FORECAST PERIOD.

III. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED AND IS EXPECTED TO REMAIN UNSETLED THROUGH THE NEXT THREE DAYS.

IV. EVENT PROBABILITIES 09 SEPTEMBER - 11 SEPTEMBER

CLASS M 50/5 0/5 0

CLASS X 0/1 0/1 0/1

PROMPT 0/1 0/1 0/1

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 08 SEPTEMBER 197

PREDICTED 09-11 SEPTEMBER 190/186/184

90-DAY MEAN 08 SEPTEMBER 187

VI. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 07 SEPTEMBER 09

ESTIMATED AFR/AP 08 SEPTEMBER 10/10

PREDICTED AFR/AP 09-11 SEPTEMBER 08/10 - 07/10 - 07/10

SOLTERWARN

BT