

HFUS3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 209

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4680 (N06E59) ROTATED FULLY ONTO THE DISK AS A MATURE EAO BETA-TYPE. IT PRODUCED NO SIGNIFICANT EVENTS. NEWLY ASSIGNED REGION 4682 (S14E69) WAS AN HKX ALPHA-TYPE, BUT POSSIBLY IS THE LEADER GROUP OF RETURNING COMPLEX 4671/4672. THIS REGION PRODUCED LOOPS AND SURGING MIDWAY THROUGH THE PERIOD WITH A SMALL B-LEVEL X-RAY EVENT AND SUB-FLARE, THEN ANOTHER LOW B-LEVEL X-RAY EVENT WITH POINT BRIGHTENINGS LATE IN THE PERIOD. NEWLY ASSIGNED REGION 4683 (S07W62) WAS A SIMPLE ALPHA TYPE BUT WAS INCREASING ITS ACTIVITY NEAR THE END OF THE PERIOD WITH ARCHED FILAMENTS AND BRIGHT PLAGE. NEWLY ASSIGNED REGION 4684 (S30W23) WAS SEEN AS A REVERSED POLARITY BETA TYPE BY ONLY ONE OBSERVATORY - THE CONSENSUS WAS A SIMPLE ALPHA TYPE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4682 PROVIDES A VERY SLIGHT CHANCE OF MODERATE ACTIVTY, AS IT MAY BE THE LEADER GROUP OF RETURNING REGION 4671/4672 COMPLEX.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: GEOMAGNETIC ACTIVITY WAS ACTIVE TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED TO ACTIVE. MINOR STORM LEVELS ARE POSSIBLE AT HIGH LATITUDES THE SECOND AND THIRD DAYS.

III. EVENT PROBABILITIES 29 JUL-31 JUL

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JUL 079

PREDICTED 29 JUL-31 JUL 081/083/085

90 DAY MEAN 28 JUL 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 JUL 017/026

ESTIMATED AFR/AP 28 JUL 011/016

PREDICTED AFR/AP 29 JUL-31 JUL 010/020-015/030-020/030

SOLTERWARN

B7