

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SD F NUMBER 267

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 23 SEPTEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. THE LARGEST EVENT WAS AN M2 X-RAY EVENT BEHIND THE EAST LIMB WHICH MAXED AT 1608 UT. THE TOPS OF FLARE LOOPS AND A SPRAY OUT TO .08 RADII WERE OBSERVED AT THAT TIME NEAR S15. LATER, A LARGE H-TYPE SPOT ROTATED OVER THE LIMB AT S18 AND WAS NUMBERED 2697. EARLIER IN THE DAY AT 0433 UT, REGION 2684 (N18W25) PRODUCED AN M1/SB FLARE WITH MINOR RADIO NOISE, AND THEN PRODUCED A C1/SB AT 0655 UT WITH STRONGER NOISE INCLUDING 460 FLUX UNITS AT 245 MHZ. REGIONS 2684 HAS CONTINUED TO DEVELOP IN WHITE LIGHT

ALTHOUGH ITS ASSOCIATED REGIONS, 2687 (N11W25) AND 2691 (N05W27) HAVE REMAINED MOSTLY STABLE. IN ADDITION TO 2697, THREE OTHER REGIONS WERE NUMBERED TODAY. A SOUTHERN PLAGE REGION DEVELOPED AN A-TYPE SPOT AT S32E57 (REGION 2695) AND OLD REGIONS 2645 AND 2646 HAVE RETURNED RESPECTIVELY AS 2696 (S07E73), AN A-TYPE SPOT, AND 2694 (N12E76), AN H-TYPE SPOT. THESE REGIONS WILL BE BETTER DESCRIBED AFTER THEY HAVE ROTATED FURTHER ONTO THE DISK.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH INCREASING PROBABILITY OF X-CLASS ACTIVITY OVER THE NEXT THREE DAYS. REGION 2684 HAS PROVEN TO BE CAPABLE OF M-CLASS ACTIVITY, AND 2680 COULD ALSO PRODUCE AN ISOLATED M-EVENT. HOWEVER, MOST OF THE ACTIVITY IS EXPECTED TO COME FROM REGIONS NOW ON THE EAST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. THE CORONAL HOLE DISTURBANCE WHICH HAD BEEN EXPECTED TO CONTINUE TODAY HAS ENDED. THE FIELD IS NOW EXPECTED TO REMAIN MOSTLY QUIET THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 SEPTEMBER - 26 SEPTEMBER

CLASS M 50/60/70

CLASS X 05/05/10

PREDICTED 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 SEPTEMBER 19.4

PREDICTED 24-26 SEPTEMBER 212/220/220

90-DAY MEAN 23 SEPTEMBER 180

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 22 SEPTEMBER 10

ESTIMATED AFR/AP 23 SEPTEMBER 04/08

PREDICTED AFR/AP 24-26 SEPTEMBER 08/12 - 06/10 - 06/10

SOLTERWARN

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