

HFUS 1 BOU 282210

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 272

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 28 SEPTEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW WITH SUBFLARES REPORTED FROM  
REGION 2693 (N16W21) AND REGION 2701 (N14E62). REGION 2693  
FLARED TWICE: SUB BRILLIANT AT 1033Z AND SUB FAINT AT 1420Z.  
REGION 2701 FLARED ONLY ONCE: SUB BRILLIANT AT 1629Z. C-CLASS  
X-RAY EVENT WERE RECORDED WITHOUT ASSOCIATED OPTICAL REPORTS  
AT 0741Z C5 AND 1505Z C4. AT 0436Z A C3 WAS OBSERVED WITH MINOR  
DISCRETE FREQUENCY RADIO BURSTS ON THE 415 MHZ AND 245 MHZ  
CHANNELS. IN ADDITION, AN ACTIVE FILAMENT HAS BEEN OBSERVED  
DURING MOST OF THE UT DAY FROM S10-S30 IN THE SOUTHWEST  
QUADRANT. SURGING HAS BEEN REPORTED FROM REGION 2684 (N18W90)  
AND 2680 (S32W84) AS THEY APPROACH THE WEST LIMB. GROWTH IS  
EVIDENT IN REGION 2693 AND REGION 2701 (N14E62). NEW REGIONS  
2705 (N08E07) AND 2706 WERE OBSERVED TODAY. ALL OTHER DISK AND  
LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH THE  
GOOD POSSIBILITY OF M-CLASS EVENTS FROM ANY OF THE FOUR  
MAGNETICALLY COMPLEX REGIONS. THESE ARE IN DECREASING ORDER OF  
FLARE POTENTIAL: 2697 (S18E13) BETA-GAMMA-DELTA; 2701 BETA-GAMMA;  
2693 BETA-GAMMA AND 2695 (S30W08) BETA-GAMMA.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24  
HOURS WITH ONLY A SLIGHT DEPRESSION OBSERVED AT 1500Z. DURING  
THE NEXT 72 HOURS THE MAGNETIC FIELD WILL BE UNSETTLED WITH  
SLIGHTLY MORE ACTIVITY ON THE SECOND DAY.

III. EVENT PROBABILITIES 29 SEPTEMBER - 01 OCTOBER

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 SEPTEMBER 185

PREDICTED 29 SEPTEMBER - 01 OCTOBER 185/183/181

90-DAY MEAN 28 SEPTEMBER 180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 SEPTEMBER NOT AVAILABLE

ESTIMATED AFR/AP 28 SEPTEMBER 08/10

PREDICTED AFR/AP 29 SEPTEMBER - 01 OCTOBER 08/10 - 11/14 - 10/12

SOLTERWARN

BT