

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 269

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 25 SEPT 1980

IA. SOLAR ACTIVITY HAS BEEN LOW WITH THE OCCURENCE OF MAY SUBFLARES DURING THE FIRST 12 HOURS OF THE PRESENT UT DAY. DURING THIS INTERVAL A C2/SF WAS OBSERVED FROM REGION 2695 (S31E31). IN ADDITION A C6 X-RAY EVENT OCCURRED WITH NO OBSERVED OPTICAL REPORT AT 0950Z. REGION 2684 (N18W51) HAS BEEN THE MOST COMPLEX MAGNETICALLY DURING THE PAST INTERVAL AND CONTINUES AS BETA-GAMMA-DELTA. THIS REGION HAS PRODUCED ONLY A SINGLE SUBFLARE AT 0657Z AND CURRENTLY DISPLAYS ENHANCED FLARE, AN ACTIVE DARK FILAMENT AND A COMPLEX N-S NEUTRAL LINE. REGION 2697 (S18E52) PRODUCED A SUBFLARE AT 0015Z WITH A 1500 F.U. BURST AT 8800 MHZ. AN ERUPTIVE PROMINENCE ON THE LIMB AT NE45 WAS REPORTED AT 0103Z WITH AN ASSOCIATED RADIO BURST OF 1100 F.U. AT 245 MHZ AND A TYPE III IMPORTANCE 2 RADIO SWEEP. OTHER REGIONS THAT HAVE FLARED ARE: 2689 (S15W07), 2693 (N18E17), 2694 (N13E49) AND 2696 (S06E45) REGION 2691 (N05W54) HAS NOT FLARED BUT HAS DISPLAYED AN ACTIVE DARK FILAMENT AND POSSIBLE EMERGING FLUX DURING THE OBSERVING PERIOD. THE SECOND 12 HOURS OF THE UT DAY HAVE BEEN VERY QUIET WITH NO REPORTED EVENTS. ALL OTHER DISK AND LIMB FEATURES ARE REPORTED TO BE QUIET AND STABLE. IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH THE POSSIBILITY OF BOTH C AND M-CLASS ACTIVITY FORM THE FOLLOWING ACTIVE REGIONS: 2697, 2695, 2684 AND 2691.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED DURING THE PAST 24 HOURS. THE EXPECTED LEVEL OF GEOMAGNETIC ACTIVITY DURING THE NEXT 72 HOURS WILL BE GENERALLY UNSETTLED WITH A SLIGHTLY MORE UNSETTLED MAGNETIC FIELD ON THE SECOND DAY.

III. EVENT PROBABILITIES 26 - 28 SEPT

CLASS M 50/40/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 SEPT

183

PREDICTED 26 - 28 SEPT

185/187/185

90-DAY MEAN 25 SEPT

180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 SEPT

04

ESTIMATED AFR/AP 25 SEPT

08/08

PREDICTED AFR/AP 26 - 28 SEPT

8/10 10/12 8/8

SOLTERWARN

BT