

HFUS 3 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 29 8A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 24 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW SINCE THE M1 FLARE OF 23/1030Z. GROWTH HAS SLOWED IN REGION 2751 (N19W52) WHERE SMALL SPOTS STILL FORM A COMPLEX MAGNETIC PATTERN. ACTIVITY AND OPTICAL APPEARANCE IN COMPOUND REGION 2744/48 (S15W01) SUGGESTS SLOW DECAY AND STABILIZATION. A SMALL REGION (2758) AT N07E67 IS GROWING. ALL OTHER REGIONS ARE VERY SMALL AND DECLINING. NO PROTONS HAVE BEEN DETECTED BY SATELLITES FOLLOWING THE RADIO-RICH CLASS M3 EVENT OF 23/0743Z.

IB. REGION 2751 RETAINS POTENTIAL FOR SMALL CLASS M FLARES BUT AT A LOWER RATE AND INTENSITY THAN PREVIOUSLY PREDICTED. REGION 2744 IS EXPECTED TO PRODUCE ONLY INFREQUENT CLASS C EVENTS.

II. THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVEL UNTIL ABOUT 1900Z YESTERDAY. IT HAS BECOME QUIET TO SLIGHTLY UNSETLED IN THE PAST 12 HOURS. UNSETLED CONDITIONS ARE EXPECTED TODAY, BECOMING SOMEWHAT MORE ACTIVE TOMORROW. ACTIVITY WILL SUBSIDE FOR ABOUT 36 HOURS BEFORE COMMENCEMENT OF A MINOR STORM ON THE 27TH, A CONSEQUENCE OF A LARGE-SCALE CORONAL TRANSIENT ON 23/0100Z.

III. EVENT PROBABILITIES: 25-27 OCTOBER

CLASS M 65/55/50

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 OCTOBER 198

ESTIMATED 24 OCTOBER 194

PREDICTED 25-27 OCTOBER 190/185/180

90 DAY MEAN 23 OCTOBER 184

V. GEOMAGNETIC INDICES

OBSERVED AFR 22 OCTOBER 20 AP 23 OCTOBER 40

ESTIMATED AFR 23 OCTOBER 38 AFR/AP 24 OCTOBER 12/17

PREDICTED AFR/AP 25-27 OCTOBER 14/18 10/12 20/25

SOLIERWARN

BT

HFUS 1 BOU 242200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO  
SD F. NUMBER 2988  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 24 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ONLY SEVEN C-CLASS SUBFLARES WERE OBSERVED DURING THAT TIME, ALL BUT TWO OF WHICH WERE SUBFAINT. VERY LITTLE X-RAY RESPONSE WAS NOTED WITH ANY OF THE OPTICAL ACTIVITY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE. M-CLASS FLARE POTENTIAL STILL EXISTS ON THE VISIBLE DISK.

II. THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES: 25 - 27 OCTOBER 1980

CLASS M	55/150/45
CLASS X	10/105/105
PROTON	10/105/105
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 24 OCTOBER 195  
PREDICTED 25 - 28 OCTOBER 193/192/190  
90 DAY MEAN 24 OCT 184

V. GEOMAGNETIC INDICES  
OBSERVED AFR/AP 23 OCT 33/43  
ESTIMATED AFR/AP 24 OCTOBER 11/11  
PREDICTED AFR/AP 25 - 27 OCT 10/10 10/10 20/25  
SOLTERWARN  
BT