

HFUS 3 RDU 101314

SD F NUMBER 284A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 10 OCTOBER 1980

IA. SOLAR ACTIVITY HAS CONTINUED MODERATE FOR THE PERIOD.

TWO M-CLASS FLARES HAVE BEEN OBSERVED SINCE YESTERDAY'S 1200Z REPORT. REGION 2725 (S12E49) PRODUCED AN M1/1B AT 09/1958Z MAXIMUM, WHILE REGION 2725 (S09E42) PRODUCED AN M1/1B AT 17/1051Z MAXIMUM. BOTH FLARES HAD MINOR RADIO DISCRETE FREQUENCY BURSTS, WITH SHORT WAVE FADES TO 12 MHZ OBSERVED WITH THE 1051Z FLARE. THESE TWO REGIONS COULD VERY EASILY BE CONSIDERED ONE LARGE COMPLEX GAMMA MAGNETIC REGION. THE FLARES GENERATED HOWEVER, APPEAR TO COME FROM TWO DIFFERENT CENTERS, INDICATING THAT THERE IS SOME SORT OF DIVISION WITHIN THE REGION. REGION 2717 (N14E17) HAS QUIETED SOMEWHAT IN THE PAST 12 HOURS. ITS LARGEST EVENT WAS ONLY A C3/SB AT 0127Z MAXIMUM. THIS CONDITION COULD BE CONTRIBUTED TO THE LOSS OF ITS DELTA AND GENERAL SLOW SPOT DECAY. REGION 2724 (N12E01) IS CONTINUING TO GROW IN SPOT NUMBER AND AREA, BUT AS YET HAS NOT PRODUCED ANY SIGNIFICANT ACTIVITY.

IB. SOLAR ACTIVITY WILL REMAIN MODERATE WITH M-CLASS EVENTS PROBABLE FROM BOTH THE 2725/2726 COMPLEX AND THE 2717/2724 COMPLEX. EITHER COULD INTERACT TO PRODUCE AN ISOLATED X-CLASS EVENT.

II. THE GEOMAGNETIC FIELD WAS UNSETLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO RESPOND TO THE INFLUENCES OF A FAVORABLE LOCATED CORONAL HOLE BY LATE IN THE ZULU DAY OR EARLY TOMORROW. ACTIVE LEVELS ARE FORECAST DURING THIS PERIOD.

III. EVENT PROBABILITIES: 11 OCTOBER - 13 OCTOBER

CLASS M: 90/90/90

CLASS X: 10/15/20

PREDICTED: 10/15/20

PCAF: GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED: 08 OCT 22.6

ESTIMATED: 10 OCT 23.0

PREDICTED: 11-13 OCT 234/238/236

90 DAY MEAN: 09 OCT 184

V. GEOMAGNETIC INDICES

OBSERVED AFR: 08 OCT 13.1 AFR: 09 OCT 13.1

ESTIMATED AFR: 09 OCT 11.1 AFR/AP: 10 OCT 15/17

PREDICTED AFR/AP: 11-13 OCT 16/17 15/15 12/12

SOLTERWARN:

BT

NNNZBVZ CVZDZEZFZGVZIVZLVZOUU

KBOU

HFUSI BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 234B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 10 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW SINCE THE M1 EVENT AT 1015Z
TODAY. COMPLEX 2725-26 (S10E34) HAS PRODUCED SEVERAL SUB-
FLARES AND CONTINUES TO GROW IN SUNSPOT COUNT, AREA AND
COMPLEXITY. LESS SIGNIFICANT GROWTH HAS OCCURRED IN REGION
2724 (N12W07) AND REGION 2713 (S03W33).

IB. SOLAR ACTIVITY WILL REMAIN MODERATE. CLASS X AND PROTON
EVENTS ARE QUITE POSSIBLE SHOULD SPOT EVOLUTION CONTINUE IN
THE PRESENT TREND.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TODAY. CONDITIONS
ARE EXPECTED TO BECOME SLIGHTLY ACTIVE AS EARTH ENCOUNTERS
TURBULENT SOLAR WIND.

III. EVENT PROBABILITIES: 11-13 OCTOBER

CLASS M 90/90/90

CLASS X 10/15/20

PROTON 10/15/20

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 10 OCTOBER 233

PREDICTED 11-13 OCTOBER 234/233/236

90-DAY MEAN 10 OCTOBER 185

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 OCTOBER 13/13

ESTIMATED AFR/AP 10 OCTOBER 12/15

PREDICTED AFR/AP 11-13 OCTOBER 16/17, 15/15, 12/12

SOLTERWARN

BT

NNNZPVZ SV