

HFUS 3 801 091300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 283 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200 UT 09 OCT 1980

IA. SOLAR ACTIVITY HAS BEEN GENERALLY MODERATE THE PAST 24 HOURS. THE FIRST SIGNIFICANT EVENT OF THIS ZULU DAY WAS AN M8/1B FROM REGION 2726 (S13E48) AT 091127Z (MAX). THIS EVENT WAS VERY IMPULSIVE, RISING FROM C-1 TO M8 IN 4 MINUTES.

GEOPHYSICAL EFFECTS INCLUDED SHORTWAVE FADES TO 22 MHZ AND RADIO NOISE AS HIGH AS 1300 F.U. AT 8800 MHZ. THE 10 CM RADIO BURST NOISE ONLY REACHED 360 FLUX UNITS. ALL THREE REGIONS 2717 (N14E23), 2725 (S08E49), AND 2726 HAVE SHOWN LITTLE CHANGE AND RETAIN THEIR POTENTIAL FOR SIGNIFICANT ACTIVITY. NO OTHER VISIBLE REGIONS APPEAR TO POSE A THREAT FOR SIGNIFICANT ACTIVITY AT THIS TIME.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVELS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. IT IS EXPECTED THAT CONDITIONS WILL REMAIN UNSETTLED TO ACTIVE AS THE FIELD EXPERIENCES THE EFFECTS OF A CORONAL HOLE.

III. EVENT PROBABILITIES: 10 - 12 OCT

CLASS M 90/90/90

CLASS X 10/15/20

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 08 OCT 212

ESTIMATED 09 OCT 220

PREDICTED 10 - 12 OCT 232/240/242

90 DAY MEAN 08 OCT 183

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 OCT 08 AP 08 OCT 10

ESTIMATED AFR 08 OCT 10 AFR/AP 09 OCT 16/16

PREDICTED AFR/AP 10 - 12 OCT 18/17 15/15 10/10

SOLTERWARN

BT

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLO

SDF NUMBER 283B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z UT 09 OCT 1980

IA. SOLAR ACTIVITY HAS REMAINED AT MODERATE LEVELS DURING THE PAST 24 HOURS. TWO M-CLASS EVENTS OCCURRED TODAY. REGION 2726 (S13E48) PRODUCED AN M8/1B EVENT AT 1128Z WITH 360 FU AT 2695 MHZ, AND AN M1/1B EVENT AT 2002Z. THE 2725/2726 AND 2717/2724 (N12E15) SPOT COMPLEXES PRODUCED SEVERAL SUBFLARES DURING THE DAY AND HAVE MAINTAINED THEIR SIZE AND COMPLEXITY.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVELS.

II. THE GEOMAGNETIC FIELD WAS AT UNSETTLED LEVELS TODAY. UNSETTLED TO ACTIVE LEVELS ARE FORECAST FOR THE NEXT 72 HOURS, DUE TO CORONAL HOLE EFFECTS.

III. EVENT PROBABILITIES: 10 - 12 OCT

CLASS M 90/90/90

CLASS X 10/15/15

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 OCT 226

PREDICTED 10 - 12 OCT 234/242/242

90-DAY MEAN 09 OCT 184

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 OCT 13/10

ESTIMATED AFR/AP 09 OCT 13/12

PREDICTED AFR/AP 10-12 OCT 18/17 15/15 12/10

SOLTERWARN

BT