

HFUS 3 BOU 181335

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLO.

SDF NUMBER 292A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 18 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. THE LARGEST EVENT WAS AN M1/SN FLARE FROM REGION 2744 (S18E63) WHICH MAXED AT 17/1640 UT. THIS REGION IS NOW THE MOST INTERESTING ON THE VISIBLE DISK WITH CULGOORA REPORTING A POSSIBLE DELTA MAGNETIC CONFIGURATION. ANOTHER GROUP APPEARS TO BE FOLLOWING 2744 NEAR SE12. SURGING IS ACCOMPANYING THIS EAST LIMB TRANSIT. REGION 2725 (S10W65) HAS DECAYED SOMEWHAT BUT IS STILL PRODUCING C-CLASS SUBFLARES.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE BASED ON THE FLARE POTENTIAL CONTAINED IN REGION 2725 AND 2744.

II. DURING THE PAST 24 HOURS, THE GEOMAGNETIC FIELD WAS MOSTLY QUIET UNTIL EARLY ON THE 18TH WHEN HIGH UNSETLED TO ACTIVE CONDITIONS COMMENCED COINCIDENT WITH A LOW LEVEL INFILUX OF PROTONS. THE PROTON FLUX APPROACHED THE EVENT THRESHOLD LEVEL OF 10 P/CM²/SEC/STER OF GREATER THAN 10 MEV ENERGY AT APPROXIMATELY 0130 UT, BUT FLUXES HAVE GRADUALLY DECLINED SINCE THEN. THIS DISTURBANCE IS EXPECTED TO DIMINISH THROUGH TODAY AND END TOMORROW. GEOMAGNETIC CONDITIONS SHOULD RETURN TO QUIET LEVELS BY THE 20TH.

III. EVENT PROBABILITIES: 19 - 21 OCTOBER

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 10/10/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 17 OCT 203

ESTIMATED 18 OCT 200

PREDICTED 19 - 21 OCT 200/185/185

90 DAY MEAN 17 OCT 186

V. GEOMAGNETIC INDICES

OBSERVED AFR 16 OCT 04 A/P 17 OCT 07

ESTIMATED AFR 17 OCT 05 AFR/A/P 18 OCT 20/23

PREDICTED AFR/A/P 19 - 21 OCT 10/10 06/08 06/08

SOLTERWARN

BT

HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 292B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 18 OCTOBER 1980

IA. SOLAR ACTIVITY WAS LOW DURING THE PAST 24 HOURS WITH ONLY C-CLASS SUBFLARES OBSERVED.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE DURING THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD WAS ACTIVE AND WILL BE UNSETLED TO ACTIVE DURING THE NEXT 24 HOURS. ON THE SECOND AND THIRD DAY, THE GEOMAGNETIC FIELD WILL BE UNSETLED AND QUIET.

III. EVENT PROBABILITIES 19 OCTOBER - 21 OCTOBER

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVER 18 OCTOBER 2.02

PREDICTED 19-21 OCTOBER 2.00/19.0/185

90-DAY MEAN 18 OCTOBER 185

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 OCTOBER 08/07

ESTIMATED AFR/AP 18 OCTOBER 20/20

PREDICTED AFR/AP 19-21 OCTOBER 15/18 - 08/08 - 08/08

SOLIERWARN

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