

HFUS 3 BOU 201311

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 294 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 20 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 2744 (S18E41) HAS PRODUCED ALL THE OBSERVED OPTICAL ACTIVITY. THE LARGEST EVENT WAS A C6/IN FROM 2744 WHICH MAXED AT 0904 UT. THIS REGION AND ITS COMPANION, 2748 (S15E54), ARE NOW THE ONLY REGIONS OF SIGNIFICANT INTEREST ON THE VISIBLE DISK. REGION 2744 STILL CONTAINS A MAGNETIC DELTA CONFIGURATION, AND 2748 HAS A POSSIBLE MAGNETIC DELTA. REGION 2789 (S34W11) HAS STABILIZED. NEW REGION 2751 (N20E01) APPEARED ON THE DISK ACCCOMPANIED BY A STRONG ARCH FILAMENT SYSTEM, BUT IS NOT NOW VERY IMPRESSIVE. NORTHWEST CAPE OBSERVATORY IS REPORTING A NEW REGION AT S09E71 WHICH MAY BE THE RETURN OF OLD REGION 2696.

IB. SOLAR ACTIVITY IS NOW PRIMARILY DEPENDENT ON THE BEHAVIOR OF 2744 AND 2748. THESE REGIONS ARE CAPABLE OF SIGNIFICANT OR MAJOR FLARES UNLESS SERIOUS DECAY OCCURS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO QUIET FOR THE PAST 24 HOURS. IN THE ABSENCE OF MAJOR FLARE ACTIVITY, THE FIELD IS EXPECTED TO REMAIN QUIET UNTIL THE THIRD DAY, WHEN THE UNSETTLING EFFECTS OF A NORTHERN HIGH LATITUDE, NEGATIVE POLARITY CORONAL HOLE MAY BE FELT. THE POLAR CAP ABSORPTION EVENT WHICH BEGAN GRADUALLY ON 19 OCTOBER, 0800 UT, ENDED AT APPROXIMATELY 2300 UT ON THE SAME DAY.

III. EVENT PROBABILITIES: 21 - 23 OCTOBER

CLASS M 65/65/65

CLASS X 10/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCT 204

ESTIMATED 20 OCT 197

PREDICTED 21 - 23 OCT 194/188/188

90 DAY MEAN 19 OCT 185

V. GEOMAGNETIC INDICES

OBSERVED AFR 18 OCT 17 AP 19 OCT 11

ESTIMATED AFR 19 OCT 10 AFR/AP 20 OCT 05/08

PREDICTED AFR/AP 21 - 23 OCT 06/08 06/08 10/10

SOLTERWARN

BT

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 294B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 2744 (S17E33) HAS PRODUCED SEVERAL C-CLASS EVENTS DURING THE PAST 24 HOURS. AN M1/SB EVENT OCCURRED FROM REGION 2744 AT 1834 UT. THREE NEW REGIONS TODAY: 2752 (N16E45), 2753 (S09E65) AND 2754 (N06E65).

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT MODERATE LEVELS DURING THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO REMAIN QUIET TO SLIGHTLY UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 OCTOBER - 23 OCTOBER

CLASS M 65/65/65

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 OCTOBER 202

PREDICTED 21-23 OCTOBER 202/200/197

90-DAY MEAN 20 OCTOBER 184

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 OCTOBER 13/11

ESTIMATED AFR/AP 20 OCTOBER 05/08

PREDICTED AFR/AP 21-23 OCTOBER 06/08 - 06/08 - 10/10

SOLTERWAN

BT