

HFUS 3 BOU 211300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 295A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 21 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. REGION 2744 (S18E26) PRODUCED SEVERAL C-CLASS X-RAY EVENTS AND M1/SB FLARE WHICH MAXED AT 1834UT. THIS REGION AND ITS COMPANION, 2748 (S13E36), CONTINUE TO EVOLVE WITH SPOT GROWTH AND PENUMBRA SPLITTING AND RESTRUCTURING, AND THEY POSSESS AN ACTIVE AND TIGHTLY KINKED COMMON NEUTRAL LINE. BOTH CONTAIN MAGNETIC DELTA CONFIGURATIONS AND SEEM UNUSUALLY QUIET CONSIDERING THEIR AWESOME APPEARANCE. REGION 2751 (N21W13) IS DEVELOPING NEW SPOTS OF MIXED POLARITIES AND SEVERAL C-CLASS FLARES HAVE OCCURED HERE IN THE PAST 24 HOURS. REGION 2752 (N16E37) IS ALSO DEVELOPING AND PRODUCED A SUBNORMAL FLARE WITH AN ASSOCIATED TYPE II SLOW DRIFT RADIO BURST FROM 0435-0449 UT. THIS REGION SHOULD BE WATCHED FOR POSSIBLE RAPID DEVELOPMENT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH BASED ON 2744/2748, AND THE POTENTIAL RETURN OF PREVIOUSLY ACTIVE REGIONS TOWARD THE END OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. THESE CONDITIONS ARE EXPECTED TO PERSIST TOMORROW, BECOMING SLIGHTLY UNSETTLED FOR THE NEXT TWO DAYS IN RESPONSE TO A NORTHERN HIGH LATITUDE NEGATIVE-POLARITY CORONAL HOLE.

III. EVENT PROBABILITIES 22 OCTOBER - 24 OCTOBER

CLASS M 70/70/75

CLASS X 15/15/20

PROTON 10/10/15

POAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 20 OCTOBER 202

ESTIMATED 21 OCTOBER 202

PREDICTED 22-24 OCTOBER 200/203/206

90 DAY MEAN 20 OCTOBER 184

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 OCT 13 AP 20 OCT 05

ESTIMATED AFR 20 OCT 04 AFR/AP 21 OCT 05/06

PREDICTED AFR/AP 22-24 OCT 06/08 10/10 08/10

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HEUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO.

SDF NUMBER 295B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 21 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. EIGHTEEN C-CLASS SUBFLARES (NONE STRONGER THAN C4) WERE OBSERVED DURING THAT PERIOD, AS WELL AS TWO CLASS 1 OPTICAL FLARES (WITHOUT SIGNIFICANT X-RAYS). REGION 2744 (S18E20) HAS NOW CLEARLY WEAKENED.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS THROUGH THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO CONTINUE QUIET FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 22 OCTOBER - 24 OCTOBER

CLASS M 70/70/65

CLASS X 15/15/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 OCTOBER 206

PREDICTED 22-24 OCTOBER 205/205/205

90-DAY MEAN 21 OCTOBER 184

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 20 OCTOBER 04/06

ESTIMATED AFR/AP 21 OCTOBER 07/08

PREDICTED AFR/AP 22-24 OCTOBER 06/08 - 10/10 - 08/10

SOLTERWARN

BT