

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 294

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. C5/1B FLARES WERE REPORTED FROM REGIONS 1348 (S22W71) 1402Z (MAX), AND 1351 (N30W18) 1612Z (MAX). OTHER C-CLASS X-RAY FLARES WERE OBSERVED FROM REGIONS 1355 (N27E35), 1348, 1360 (N16E04), AND THE NORTHEAST LIMB (N19). REGIONS 1348 AND 1355 REMAIN THE MOST MAGNETICALLY COMPLEX (BETA-GAMMA) ON THE VISIBLE DISK. NEW REGION 1363 (N13W39) IS A B-TYPE GROUP. SIGNIFICANT GROWTH WAS OBSERVED FOR REGIONS 1357 (S28W08), 1360, AND 1362 (N16E59).

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE WITH GOOD PROBABILITIES FOR ENERGETIC EVENTS FROM REGIONS 1348 AND 1355.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST 24 HOURS. MAGNETIC ACTIVITY SHOULD BE UNSETTLED FOR THE NEXT 24 HOURS, APPROACHING ACTIVE CONDITIONS FOR THE FOLLOWING PERIODS Owing TO A NEGATIVE POLARITY CORONAL HOLE NOW LOCATED NEAR S10W35.

III. EVENT PROBABILITIES 22 OCTOBER - 24 OCTOBER

CLASS M 80/70/70

CLASS X 15/10/10

PROTON 15/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 OCTOBER 170

PREDICTED 22-24 OCTOBER 168/165/162

90-DAY MEAN 21 OCTOBER 140

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 OCTOBER 07

ESTIMATED AFR/AP 21 OCTOBER 08/11

PREDICTED AFR/AP 22-24 OCTOBER 15/15 - 19/20 - 19/25

SOLTERWARN

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SDF NUMBER 294

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 21 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE. WEATHER HAS HAMPERED WORLD-WIDE OBSERVATIONS. REGION 2045 (N29W79) PRODUCED A M2/1B AT 1216Z AND REGION 2058 (N27W15) PRODUCED A M1/1B AT 1324Z. MODERATE CENTIMETRIC BURSTS AND SHORT WAVE FADES ACCCOMPANIED THESE TWO FLARES. REGION 2058 CONTINUES TO REARRANGE ITS SUNSPOT STRUCTURE BUT STILL RETAINS ITS DELTA CONFIGURATION. REGION 2045 AND 2049 (N32W60) ARE APPROACHING THE WEST LIMB BUT APPARENTLY STILL RETAIN SOME DEGREE OF MAGNETIC COMPLEXITY. REGIONS 2073 (S15E69) AND 2074 (S24E70) HAVE ROTATED ON TO DISK TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH REGIONS 2045, 2049, AND 2058 THE MOST LIKELY REGIONS TO PRODUCE THE ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THE FIELD IS EXPECTED TO BE UNSETLED TO ACTIVE THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 22 - 24 OCT

CLASS M 19/9/9/9/0

CLASS X 30/25/25

PREDICTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 OCT 232

PREDICTED 22 - 24 OCT 229/226/221

90-DAY MEAN 21 OCT 193

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 20 OCT 05

ESTIMATED AFR/AP 21 OCT 09/10

PREDICTED AFR/AP 22 - 24 OCT 12/25 15/15 15/15

SOLTERWARN

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