

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

BT

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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 ACCOMPANIED 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 UNSETTLED. THE FIELD IS EXPECTED  
TO BE UNSETTLED TO ACTIVE THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 22 - 24 OCT

CLASS M 90/90/90

CLASS X 30/25/25

PROTON 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 A 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

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