

HFUS 1 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO  
SDF NUMBER 334

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 30 NOVEMBER 1978

IA. SOLAR ACTIVITY HAS REMAINED MODERATE DURING THE PAST 24 HOURS.  
REGION 1417 (N15E12) PRODUCED A M1/SN FLARE WITH MAXIMUM AT 0203  
U.T. SEVERAL C CLASS X-RAY FLARES HAVE ALSO OCCURRED FROM REGIONS  
1417, 1407 (N13W81), AND 1429 (S18E41). NEW REGION 1433 (N20E78)  
IS RETURNING REGION 1385 WHICH PRODUCED 1 M CLASS AND SEVERAL  
C CLASS X-RAY FLARES LAST ROTATION.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVELS WITH  
REGIONS 1429, 1417 AND 1432 (S20E55) CAPABLE OF PRODUCING CLASS M  
X-RAY EVENTS. REGION COMPLEX 1429/1432 WILL BECOME A MAJOR  
SOURCE OF EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS.  
UNSETTLED CONDITIONS ARE EXPECTED TO START IN THE NEXT 24 HOURS  
AND REACH NEAR ACTIVE LEVELS AT THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 DECEMBER - 03 DECEMBER

CLASS M 50/60/60

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 NOVEMBER 172

PREDICTED 01-03 DECEMBER 174/178/179

90-DAY MEAN 30 NOVEMBER 157

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 29 NOVEMBER 02

ESTIMATED AFR/AP 30 NOVEMBER 04/05

PREDICTED AFR/AP 01-03 DECEMBER 07/15 - 10/20 - 14/20

SOLTERWARN

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 334

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 30 NOVEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ACTIVITY HAS CONSISTED OF SEVERAL C1-CLASS X-RAY BURSTS WITH NO OPTICAL CORRELATION. REGION 2153 (S20E35) PRODUCED THE ONLY OPTICAL FLARE, A SUBFAINT REPORTED BY CULGOORA WITH MAXIMUM AT 0320Z. OPTICAL COVERAGE WAS POOR TODAY HOWEVER DUE TO POWER AND EQUIPMENT PROBLEMS AT SOME SITES. REGION 2153 HAS WEAKENED SOMEWHAT WITH ITS DELTA SEEN YESTERDAY APPARENTLY GONE TODAY. NEW REGION 2159 (S15E71) IS THE RETURN OF OLD ACTIVE REGION 2099 (CAR 278) WHICH PRODUCED NUMEROUS M AND X CLASS EVENTS LAST ROTATION. ALTHOUGH ONLY A SMALL C-TYPE GROUP AT PRESENT, ITS PLAGE IS BRIGHT AND EXTENDS TO THE LIMB INDICATING MORE OF THE REGION IS STILL TO COME. NEW REGIONS 2157 (S10W25), 2158 (N19E56) AND 2160 (N27E19) HAVE EMERGED ON THE DISK AS SMALL SIMPLE GROUPS.

IB. SOLAR ACTIVITY SHOULD REMAIN LOW DURING THE FIRST TWO DAYS, BECOMING LOW TO MODERATE THE THIRD DAY AS MORE ACTIVE LONGITUDES COME INTO SIGHT.

II. THE GEOMAGNETIC FIELD WAS QUIET TO UNSETLED UNTIL 30/0736Z WHEN A SUDDEN COMMENCEMENT WAS OBSERVED. BRIEF MINOR STORM CONDITIONS WERE OBSERVED THROUGH 1200Z FOLLOWED BY UNSETLED LEVELS UP TO THIS FORECAST TIME. PROBABLE CAUSE FOR THE SUDDEN COMMENCEMENT WAS THE DISAPPEARANCE OF A FILAMENT LOCATED ON A SOLAR SECTOR BOUNDARY NEAR CENTRAL MERIDIAN ON THE 26TH OF NOVEMBER. THE FIELD IS EXPECTED TO BECOME QUIET THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 01 DECEMBER - 03 DECEMBER

CLASS M 15/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 30 NOV 15.7

PREDICTED 01-03 DEC 15.8/16.0/16.8

50-DAY MEAN 30 NOV 2.18

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 29 NOVEMBER 03

ESTIMATED AFR/AP 30 NOVEMBER 14/14

PREDICTED AFR/AP 01-03 DECEMBER 08/10 06/08 05/08

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