

HFUS-1 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 321

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 17 NOVEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS. NO X-RAY OR  
OPTICAL EVENTS HAVE BEEN OBSERVED. GROWTH IN REGION 1404 (S23E39)  
HAS SUBSIDED DURING THE LAST DAY AND IS NOW A C-TYPE GROUP.  
NEW REGION 1406 (N17E01) IS AN A-TYPE GROUP AND HAS TWO SMALL SPOTS.  
IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW DURING THE NEXT 24 HOURS.  
ALTHOUGH THERE ARE SEVERAL SPOT REGIONS ON THE DISK, NONE OF  
THEM ARE OF SUFFICIENT COMPLEXITY TO BE A THREAT OF SIGNIFICANT  
EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET THE PAST 24  
HOURS WITH BRIEF UNSETTLED PERIODS. UNSETTLED CONDITIONS ARE  
EXPECTED TOWARDS THE END OF THE FORECAST PERIOD AS THE FIELD  
RESPONDS TO A SOLAR SECTOR BOUNDARY.

III. EVENT PROBABILITIES 18-20 NOVEMBER

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 NOVEMBER 131

PREDICTED 18-20 NOVEMBER 132/134/135

90-DAY MEAN 17 NOVEMBER 153

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 NOVEMBER 05

ESTIMATED AFR/AP 17 NOVEMBER 66/07

PREDICTED AFR/AP 18-20 NOVEMBER 07/12 - 10/24 - 14/30

SOLTERWARN

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HFUS 1 BOUL 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO  
SDF NUMBER 321

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 17 NOVEMBER 1979

I.A. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. FOUR M-CLASS X-RAY EVENTS OCCURRED. ONE OF THESE (A M1) WAS NOT OPTICALLY OBSERVED AND ANOTHER M1 WAS CONCURRENT WITH SUBFLARES IN REGIONS 2124 (S32W19) AND 2130 (S06W53). BOTH OF THESE REGIONS HAVE SHOWN CONSIDERABLE GROWTH IN SPOT CONFIGURATION AND MAGNETIC COMPLEXITY. A THIRD M1 EVENT WAS ASSOCIATED WITH A 1 IN FLARE IN REGION 2110 (N32W55) WHICH MAXED AT 0241 UT. THE LARGEST EVENT WAS AN M2/1B FLARE IN REGION 2124 WHICH MAXED AT 2135 UT. TWO NEW REGIONS WERE NUMBERED ON THE DISK. THEY ARE 2135 (N20W51), A B TYPE GROUP, AND 2136 (N22W32), AN A-TYPE GROUP.

I.B. SOLAR ACTIVITY IS EXPECTED TO CONTINUE TO BE MODERATE, WITH IMPROVED CHANCES FOR MAJOR ACTIVITY Owing TO THE DEVELOPMENT IN 2124 WHICH NOW CONTAINS A DELTA MAGNETIC CONFIGURATION, AND 2130 WHICH WAS SPOTLESS YESTERDAY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS, BUT IS SHOWING A TREND TOWARD QUIET LEVELS. BARRING A MAJOR FLARE EVENT IN THE NEXT 36 HOURS WHICH COULD INDUCE STORM CONDITIONS, THE MAGNETIC FIELD IS EXPECTED TO REMAIN MOSTLY QUIET WITH OCCASIONAL UNSETTLED PERIODS. THE PROTON EVENT WHICH BEGAN ON 16 NOV ~430 UT DROPPED BELOW EVENT THRESHOLDS AT 2225 UT ON THE SAME DAY. THE POLAR CAP ABSORPTION EVENT ALSO ENDED ON THE 16TH.

III. EVENT PROBABILITIES 18 NOVEMBER - 20 NOVEMBER

CLASS M 80/75/75

CLASS X 20/15/15

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 NOVEMBER 237

PREDICTED 18-20 NOVEMBER 232/226/224

90-DAY MEAN 17 NOVEMBER 221

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 16 NOVEMBER 09

ESTIMATED AFR/AP 17 NOVEMBER 06/09

PREDICTED AFR/AP 18-20 NOVEMBER 08/15 06/15 10/15

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