

HFUS 1 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 340

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 06 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGIONS  
1437 (S30W50) AND 1442 (S24E20) PRODUCED SEVERAL SMALL C TYPE  
X-RAY EVENTS. THE LARGEST EVENTS WERE A C7/IB FLARE FROM REGION  
1429 (S18W38) AT 1943 U.T. AND A C8 X-RAY FLARE FROM REGION 1444  
AT 2108 U.T. NEW REGIONS 1444 (S16E76) IS A D TYPE GROUP, 1445  
(S22E55) AND 1446 (N22E75) ARE SIMPLE B TYPE GROUPS.

IB. SOLAR ACTIVITY WILL INCREASE TO MODERATE LEVELS DURING  
FORECAST PERIOD. REGIONS 1429, 1437 AND 1444 WILL CONTINUE TO BE  
CAPABLE OF PRODUCING M CLASS FLARES.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS.  
UNSETTLED CONDITIONS WILL OCCUR DURING NEXT 24 HOURS AND WILL  
REMAIN UNSETTLED FOR REST OF FORECAST PERIOD. A POSSIBILITY OF  
A GEOMAGNETIC STORM, WITH A LARGE FLARE, REMAINS A MINOR THREAT.

III. EVENT PROBABILITIES 07-09 DECEMBER

CLASS M 70/70/70

CLASS X 10/15/15

PROTON 10/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 DEC 169

PREDICTED 07-09 DEC 169/170/169

90-DAY MEAN 06 DEC 157

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 DEC 09

ESTIMATED AFR/AP 06 DEC 04/04

PREDICTED AFR/AP 07-09 DEC 07/08 - 10/10 - 11/12

SOLTERWARN

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SD F NUMBER 340

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 06 DECEMBER 1979

IA. SOLAR ACTIVITY CONTINUED VERY LOW WITH ONLY A FEW C CLASS  
X-RAY EVENTS TODAY. THE LARGEST WERE C4/1N AT 0355Z FROM REGION  
2164/2165 (S10W45) AND C3/SF AT 1729Z FROM REGION 2159 (S15W07).  
MINOR GROWTH IS REPORTED IN REGION 2159 WHERE A STRONG GRADIENT  
CONTINUES ACROSS AN EAST-WEST NEUTRAL LINE. MINOR GROWTH HAS  
OCCURRED ALSO IN REGION 2156 (S25W20), REGION 2147 (S13W72),  
REGION 2161 (S25E15) AND REGION 2162 (S11E29). SMALL NEW REGIONS  
HAVE FORMED AT N13W63 (2170), S18W20 (2171), N09E39 (2172) AND  
N21E49 (2173). SURGES AT N20 AND ACTIVE PROMINENCES AT S02  
INDICATE ADDITIONAL REGIONS COMING INTO VIEW AT EAST LIMB.

IB. SOLAR ACTIVITY WILL REMAIN LOW UNTIL MORE RAPID EVOLUTION  
AND/OR LARGER ACTIVE REGIONS OCCUR.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.  
QUIET CONDITIONS ARE EXPECTED TO CONTINUE UNTIL 09 DECEMBER WHEN  
THE EFFECTS OF A CORONAL HOLE AND SECTOR BOUNDARY BEGIN.  
CONDITIONS MAY REACH MINOR STORM LEVEL FOR PART OF THAT DAY.

III. EVENT PROBABILITIES 07-09 DECEMBER

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 DEC 230

PREDICTED 07-09 DEC 240/240/235

90-DAY MEAN 06 DEC 220

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 DEC 05

ESTIMATED AFR/AP 06 DEC 05/05

PREDICTED AFR/AP 07-09 DEC 06/08 08/10 16/20

SOLTERWARN

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