

HFUS 1 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 365

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 31 DECEMBER 1978

I A. SOLAR ACTIVITY HAS BEEN LOW-MODERATE DURING THE PAST 24 HOUR PERIOD. SEVERAL C CLASS X-RAY FLARES HAVE OCCURRED THIS PERIOD, THE LARGEST A C5/SF FROM REGION 1479 (S 18W 04). REGIONS 1489 (N 13E 55), 1483 (S 33E 08), 1487 (S 12E 42) AND (1482 (S 22E 08)) PRODUCED SMALL C CLASS FLARES.

I B. SOLAR ACTIVITY WILL BE MODERATE-HIGH DURING THE FORECAST PERIOD. WITH REGIONS 1482, 1483, 1489 AND 1487, ALL BETA GAMMA. OLD REGION (1444, WHICH HAD 4 M AND 2 X CLASS X-RAY FLARES LAST ROTATION IS DUE BACK IN THREE DAYS. SOLAR ACTIVITY SHOULD REACH HIGH LEVELS IN THE NEXT FEW DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THIS PERIOD. THE FIELD WILL CONTINUE UNSETTLED UNTIL NEAR THE END OF THE FORECAST PERIOD WHEN THE FIELD SHOULD REACH ACTIVE LEVELS.

III. EVENT PROBABILITIES 01 JANUARY - 03 JANUARY

CLASS M 65/70/75

CLASS X 30/30/40

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 DEC 203

PREDICTED 01 JAN - 03 JAN 210/216/226

90-DAY MEAN 31 DEC 164

V. GEOMAGNETIC INDICIES

OBSERVED FREDERICKSBURG 30 DEC 16

ESTIMATED AFR/AP 31 DEC 14/17

PREDICTED AFR/AP 01 JAN - 03 JAN 10/12 - 10/15 - 14/20

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SDF NUMBER 365

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 31 DECEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW TODAY. NUMEROUS SUBFLARES OCCURRED,  
THE LARGEST FLARE REPORTED WAS A C4/1N AT 0720Z FROM NEW REGION  
2220 (N12E70). REGION 2215 (S13E31) HAS REMAINED STABLE AND MAG-  
NETICALLY COMPLEX, PRODUCING MOST OF TODAYS SUBFLARES. REGION 2212  
(S15W19) DECAYED, LOSING MUCH OF ITS FLARE POTENTIAL. REGION 2218  
(S21E10), WHICH GREW RAPIDLY YESTERDAY, REMAINED STABLE AND INACTIVE.  
TWO NEW REGIONS ROTATED OVER THE EAST LIMB. 2220, AN E-TYPE  
SPOT GROUP, AND 2221 (N13E79), AN H-TYPE SPOT GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO BECOME MODERATE. ALTHOUGH REGION  
2212 DECAYED TODAY, REGION 2220 HAS ROTATED ONTO THE DISK ERUPTIVE.  
ALSO, REGION 2215 HAS RETAINED ITS POTENTIAL FOR A SIGNIFICANT FLARE.

III. THE GEOMAGNETIC FIELD WAS MILDLY UNSETLED TODAY AND IS EXPECTED  
TO BECOME INCREASINGLY QUIET FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 01 JAN 80 - 03 JAN 80

CLASS M 80/80/80

CLASS X 20/20/20

PREDICTION 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 DEC 79 195

PREDICTED 01 JAN 80 - 03 JAN 80 202/207/210

90-DAY MEAN 31 DEC 79 219

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 30 DEC 79 18

ESTIMATED AFR/AP 31 DEC 79 07/07

PREDICTED AFR/AP 01 JAN 80 - 03 JAN 80 05/07 05/06 04/05

SOLTERWARN

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