

NFUS 1 BOU 162200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO
SDF NUMBER 350
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 DECEMBER 1978

I. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION 1444 (513W49) PRODUCED A M1/IN FLARE BEGINNING AT 15/2246Z. ALSO, A C9/2N BEGINNING AT 16/0403Z OCCURRED IN REGION 1453 (518W39) AND REGION 1444. SINCE THESE EVENTS, ACTIVITY HAS BEEN CONFINED TO SUB-FLARES AND LOW LEVEL CLASS C X-RAY BURSTS. THE SUNSPOT STRUCTURE WHICH HAD BEEN REGION 1448 HAS BEEN MERGED WITH REGION 1444. ALSO, SEVERAL OF THE LEAD POLARITY SPOTS OF REGION 1453 HAVE EXPANDED INTO THE TRAILER PENUMBRA OF REGION 1444. REGION 1444 CURRENTLY HAS A BETA GAMMA DELTA CONFIGURATION. NEW REGION 1462 (19W07) IS EMERGING AT A MODERATE RATE.

II. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE.

III. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED UNTIL THE LATTER PORTION OF THE FORECAST PERIOD WHEN A SECTOR BOUNDARY IS EXPECTED TO BEGIN PERIODS OF ACTIVE CONDITIONS.

IV. EVENT PROBABILITIES 17-19 DECEMBER

CLASS M	85/85/85
CLASS X	20/15/15
PROTON	20/20/15
PCAF	GREEN

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	15 DECEMBER	23
ESTIMATED AFR/AP	15 DECEMBER	12/14
PREDICTED AFR/AP	17-19 DECEMBER	12/12 - 12/12 - 12/14
SOLTERWARN		
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IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.
FEWER THAN HALF A DOZEN C-CLASS SUBFLARES HAVE BEEN OBSERVED
WITH THE BEST OF THESE IN REGION 2183 (S15W67) AND REGION
2194 (N17W37). THE NUMBER AND COMPLEXITY OF SPOTTED REGIONS
ON THE DISK HAS DIMINISHED SINCE YESTERDAY. AT THE SAME TIME,
THE 10 CENTIMETER FLUX LEVELS HAVE DROPPED DRAMATICALLY.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW FOR AT LEAST
THE NEXT THREE DAYS. REGION 2204 (STE 73) IS THE ONLY NEW
COMER AT THE EAST LIMB IN RECENT DAYS, AND IT APPEARS QUIET.

II. THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETLED DURING
THE PAST 24 HOURS. THE FIELD IS EXPECTED TO CONTINUE GENERALLY
UNSETLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 17 - 19 DECEMBER 1979

CLASS M 30/20/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 DEC 224

PREDICTED 17-19 DEC 218/211/203

90-DAY MEAN 16 DEC 225

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 15 DEC 08

ESTIMATED AFR/AP 16 DEC 09/11

PREDICTED AFR/AP 17-19 DEC 09/10 08/08 07/08

SOLTERWARN

BT