

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 360

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

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. ONLY
A FEW C-CLASS X-RAYS EVENTS WERE OBSERVED. REGION 1476 (S17E53)
HAD A C4/SN FLARE AT 0325 UT (MAX). TWO NEW REGIONS WERE REPORTED.
REGION 1478 (S11W07) IS A DEVELOPING C-TYPE BETA AND REGION
1479 (S19E62) IS A SINGLE H SPOT AS YET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE WITH
INCREASING PROBABILITY OF MAJOR ACTIVITY AS PRESENT REGIONS
DEVELOP AND REGIONS WHICH WERE ACTIVE LAST ROTATION RETURN TO
THE VISIBLE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED FOR THE
PAST 24 HOURS. MAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED
DECREASING TO QUIET THROUGHOUT THE FORECAST PERIOD (EXCLUDING
THE EFFECTS OF POTENTIAL MAJOR FLARE ACTIVITY).

III. EVENT PROBABILITIES 27 DECEMBER - 29 DECEMBER

CLASS M 30/40/50

CLASS X 01/05/10

PROTON 01/01/01

PCAF YELLOW

IV. OTTAWA (10.7 CM FLUX

OBSERVED 26 DECEMBER 149

PREDICTED 27-28 DECEMBER 154/160/165

90-DAY MEAN 26 DECEMBER 161

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 DECEMBER 19

ESTIMATED AFR/AP 26 DECEMBER 9/9

PREDICTED AFR/AP 27-29 DECEMBER 9/9 - 8/8 - 6/6

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SDF NUMBER 360

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 DECEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW. FREQUENT SMALL FLARES (CLASS
C1 TO C6) HAVE OCCURRED IN ALL OF THE ACTIVE REGIONS THAT HAVE
SPOTS. THE LARGEST OF THESE WAS A CLASS C6 AT 26/0046 IN REGION
2007 (S13W16). THE IN FLARE WAS ACCOMPANIED BY TYPE II/III RADIO
BURSTS AND ALSO TEMPORALLY CORRESPONDED WITH CONTINUUM EMISSION.
REGIONS 2204 (S17W61) AND 2207/2208 (S15W05) SHOW SIGNS OF SLOW
DECAY. REGION 2212 (S15E48), RETURNED OLD REGION 2165, HAS GROWN
MODERATELY SINCE YESTERDAY.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH A CHANCE OF AN
ISOLATED CLASS M FLARE IN ANY OF THE REGIONS CITED ABOVE.

II. THE GEOMAGNETIC FIELD BECAME INCREASINGLY UNSETTLED ON 26
DECEMBER. UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE THROUGH
THE NEXT THREE DAYS, POSSIBLY ENHANCED ON THE THIRD DAY BY THE
26/0046 UT FLARE AND A DISRUPTING FILAMENT THAT DISAPPEARED FROM
N30W20 AROUND 26/0400 UT.

III. EVENT PROBABILITIES 27 DEC - 29 DEC

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 DEC 165

PREDICTED 27-29 DEC 168/173/176

90-DAY MEAN 26 DEC 221

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 DEC 02

ESTIMATED AFR/AP 26 DEC 09/07

PREDICTED AFR/AP 27-29 DEC 10/8 08/10 10/15

SOLTERWARN

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