

HFUS 1 BOU 2622 00

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 (S 17E 53) HAD A C4/SN FLARE AT 0325 UT (MAX). TWO NEW REGIONS WERE REPORTED. REGION 1478 (S 11W 07) IS A DEVELOPING C-TYPE BETA AND REGION 1479 (S 19E 62) 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 UNSETLED FOR THE PAST 24 HOURS. MAGNETIC ACTIVITY IS EXPECTED TO BE UNSETLED 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 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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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

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 CG AT 26/0046 IN REGION 2407 (S13W16). THIS FLARE WAS ACCCOMPANIED 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 5.0/5.0/5.0

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 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

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