

DECAY WAS NOTED, BUT IT IS STILL AN E-TYPE BETA-GAMMA. REGIONS
1454 (S27W55). 14

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 355

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 DECEMBER 1978

I. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1462 (N 19W 74) HAD
AN M-1/1B FLARE AT 1646 U.T. AND A COUPLE OF SUBFLARES. SOME
DECAY WAS NOTED, BUT IT IS STILL AN E-TYPE BETA-GAMMA. REGIONS
1454 (S27W55), 1459 (S23W45), AND 1465 (N 12E 49) HAD SUBFLARES
AND THE REGIONS APPEAR STABLE. NEW REGION 1467 (N24W22) IS A
B-TYPE GROUP AND REGION 1468 (S17E 79) APPEARS TO BE AN H-TYPE
GROUP. REGION 1463 (N 15E 34) IS NOW SPOTLESS. THE REST OF THE
DISK/LIMB IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE WITH REGION 1462
PASSING THE WEST LIMB LATE TOMORROW. ACTIVITY SHOULD THEN BE
LOW UNTIL ANOTHER PROMISING REGION DEVELOPS.

II. THE GEOMAGNETIC FIELD WAS ACTIVE UNTIL 12 U.T. AND HAS BEEN
QUIET SINCE THEN. CONDITIONS SHOULD BE QUIET TO SLIGHTLY UNSETLED
FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 22-24 DECEMBER

CLASS M 20/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 DECEMBER 143

PREDICTED 22-23 DECEMBER 140/136/136

90-DAY MEAN 21 DECEMBER 162

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 DECEMBER 21

ESTIMATED AFR/AP 21 DECEMBER 08/12

PREDICTED AFR/AP 22-24 DECEMBER 08/12 - 06/07 - 06/05

SOLIERWARN

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 21 DECEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 2204 (S16E05) PRODUCED SEVERAL SUBFLARES DURING THE PERIOD BUT HAS BEEN SUBDUED AND STABLE RELATIVE TO YESTERDAY. IT HAS BECOME AN E-TYPE BETA GAMMA DELTA, AND ENLARGED SOMEWHAT IN AREA, HOWEVER, SOME RESTRUCTURING WITH APPARENT SIMPLIFICATION IN THE TRAILER PORTION OF THE REGION WAS REPORTED. REGION 2207 (S13E56), A D-TYPE BETA GROUP HAS ALSO PRODUCED SEVERAL SUBFLARES. THIS REGION HAS HAD POINT BRIGHTENINGS AND OCCASIONAL PLAGE FLUCTUATIONS OBSERVED DURING THE PAST PERIOD.

IB. SOLAR ACTIVITY SHOULD BE MODERATE IN THE NEXT 24 HOUR PERIOD. REGION 2204 STILL MAINTAINS THE POTENTIAL TO PRODUCE ENERGETIC EVENTS AND IS MOVING INTO A POSITION FAVORABLE FOR PROTON AND GEOMAGNETIC FIELD DISTURBANCES. REGION 2207/2208 COMPLEX SHOULD BE MONITORED FOR INCREASED DEVELOPMENT AND ACTIVITY OVER THE NEXT PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN AT QUIET LEVELS. IT SHOULD REACH UNSETLED TO SLIGHTLY ACTIVE LEVELS DURING THE NEXT 24 HOURS AS THE EFFECTS OF THE RECENT SOLAR EVENTS REACH THE EARTH.

III. EVENT PROBABILITIES 22-24 DEC

CLASS M 70/70/70

CLASS X 30/30/30

PROTON 15/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 DEC 190

PREDICTED 22-24 DEC 186/182/178

90-DAY MEAN 21 DEC 224

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 20 DEC 03

ESTIMATED AFR/AP 21 DEC 04/06

PREDICTED AFR/AP 22-24 DEC 15/20 - 12/12 - 08/10

SOLTERWARN

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