

HFUS 1 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 351

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 DEC 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1444 (S15W64) HAD AN M8/1B FLARE AT 0733 UT, AN M2/SB FLARE AT 1807 UT, AND A SN FLARE AT 1912 UT IT HAS SHOWN DECAY ALTHOUGH IT IS STILL AN E-TYPE BETA-GAMMA GROUP. REGION 1462 (N20W21) HAD AN M1/1B AT 1654 UT AND SEVERAL SUBFLARES THROUGH THE DAY. IT IS NOW A D-TYPE BETA GAMMA GROUP AND STILL APPEARS TO BE GROWING. THERE HAVE BEEN SUBFLARES FROM REGIONS 1446 (N21W73), 1452 (S19W86), 1453 (S18W53), AND 1459 (S22E10), BUT NONE OF THESE SHOW SIGNIFICANT CHANGE. REGION 1456 (S16W48) HAS NO SPOTS. THE REST OF THE DISK/LIMB IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD BE MODERATE. REGIONS 1444 AND 1462 HAVE GOOD POTENTIAL FOR M-CLASS AND POSSIBLE X-CLASS FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TODAY. CONDITIONS SHOULD BE UNSETTLED TOMORROW WITH POSSIBLE ACTIVE CONDITIONS FOR THE FOLLOWING TWO DAYS.

III. EVENT PROBABILITIES 18 - 20 DECEMBER

CLASS M 95/90/90

CLASS X 20/20/20

PROTON 20/20/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 DEC 184

PREDICTED 18 - 20 DEC 179/174/173

90-DAY MEAN 17 DEC 163

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 16 DEC 15

ESTIMATED AFR/AP 17 DEC 07/08

PREDICTED AFR/AP 18 - 20 DEC 12/12 - 16/20 - 20/29

SOLTERWARN

BT

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SDF NUMBER 351

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 DECEMBER 1979

I A. SOLAR ACTIVITY HAS BEEN LOW, CONFINED TO SUBFLARES AND LOW LEVEL CLASS C X-RAY EVENTS. REGIONS 2194 (N16W49), 2186 (N24W49), AND 2191 (S19W08) STILL CONTAIN WEAK BETA GAMMA CONFIGURATIONS AS SHOWN IN THE KITT PEAK MAGNETOGRAM. NO NEW REGIONS HAVE BEEN ADDED TODAY AND NO ACTIVITY HAS BEEN REPORTED ON THE EAST LIMB.

I B. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THE FIELD IS EXPECTED TO BE UNSETLED ON THE 18TH AND 20TH WITH QUIET TO UNSETLED CONDITIONS ON THE 19TH.

III. EVENT PROBABILITIES 18 - 20 DEC

CLASS M 20/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 DEC 209

PREDICTED 18-20 DEC 200/193/186

90-DAY MEAN 17 DEC 225

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 16 DEC 09

ESTIMATED AFR/AP 17 DEC 10/12

PREDICTED AFR/AP 18-20 DEC 08/10 05/08 12/12

SOLTERWARN

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