

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 353

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1444 HAS ROTATED OFF THE
WEST LIMB AT S17. IT HAD AN M-2/IN FLARE AT 18/2351 U.T. WITH A
TYPE IV BURST. REGION 1453 (S18W80) APPEARS TO BE SPOTLESS NOW,
AND HAD A C-6/SB FLARE AT 0833 UT AND A SF FLARE AT 1940 U.T. REGION
1462 (N20W49) STILL HAS A BETA-GAMMA CONFIGURATION AND HAD A SF
FLARE AT 1839 U.T. REGION 1460 (N21E28) HAD A SF FLARE AT 0932 U.T.
THE REST OF THE DISK/LIMB HAS BEEN QUIET

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS AT MINOR STORM
LEVELS. CONDITIONS SHOULD BE ACTIVE FOR THE NEXT 48 HOURS AND
UNSETLED ON THE THIRD DAY.

III. EVENT PROBABILITIES 20-22 DECEMBER

CLASS M 80/65/50

CLASS X 15/10/05

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 DECEMBER 159

PREDICTED 20-22 DECEMBER 152/150/150

90-DAY MEAN 19 DECEMBER 163

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 DECEMBER 37

ESTIMATED AFR/AP 19 DECEMBER 25/28

PREDICTED AFR/AP 20-21 DECEMBER 20/24 - 15/20 - 12/12

SOLTERWARN

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 19 DECEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION 2204 (S16E33) PRODUCED A M1/1B AT 1848Z. MINOR CENTIMETRIC BURSTS ACCCOMPANIED THIS FLARE. REGION 2204 HAS SHOWN STRONG GROWTH THE PAST 24 HOURS AND MAY CONTAIN A DELTA CONFIGURATION. FURTHER GROWTH IN THIS REGION IS EXPECTED. REGION 2194 (N17W74) PRODUCED A C5/IN AT 0125Z AND A C4/SB AT 1756Z. SOME GROWTH IN SUNSPOT STRUCTURE HAS OCCURRED IN REGION 2194 AS IT APPROACHES WEST LIMB. REGION 2202 (N10W54) STILL CONTAINS A CONVOLUTED NEUTRAL LINE BUT FLARE ACTIVITY AND PLAGE INTENSITY HAVE DIMINISHED. SUNSPOT STRUCTURE RAPIDLY REEMERGED IN REGION 2200 (S06W19) TODAY BUT THE REGION IS SIMPLE MAGNETICALLY.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH DAILY CLASS M ACTIVITY PROBABLE WITH CONTINUED GROWTH AND COMPLEXITY OF REGION 2204.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BE GENERALLY UNSETLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 20 - 22 DEC

CLASS M 60/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 DEC 189

PREDICTED 20-22 DEC 183/179/176

90-DAY MEAN 19 DEC 225

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 18 DEC 06

ESTIMATED AFR/AP 19 DEC 05/06

PREDICTED AFR/AP 20-22 DEC 10/10 12/15 07/10

SOLTERWARN

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