

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO
SDF NUMBER 333

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 NOVEMBER 1978

IA. SOLAR ACTIVITY HAS REMAINED MODERATE DURING THE PAST 24 HOURS.
REGION 1417 (N15E26) PRODUCED A M2/2B FLARE WITH A TYPE II AND
TYPE IV SWEEP WITH MAX AT 0516 UT. SEVERAL CLASS C X-RAY FLARES
HAVE ALSO BEEN OBSERVED FROM REGIONS 1407 (N13W68) AND 1429
(S18E55). REGION 1429 AND NEW REGION 1432 (S21E68) SHARE THE
SAME NEUTRAL LINE, REGION 1429 IS A C TYPE GROUP WITH SMALL
TRAILERS TO NE, REGION 1432 IS AN E TYPE.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVELS WITH REGIONS
1407, 1417, 1429, AND 1432 CAPABLE OF PRODUCING CLASS M X-RAY
EVENTS. OLD REGION 1385 IS EXPECTED TO RETURN 30 NOVEMBER AT
NE20. REGION WAS ACTIVE LAST ROTATION.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. UN-
SETLED CONDITIONS ARE EXPECTED TO START IN THE NEXT 24 HOURS
AND REACH NEAR ACTIVE LEVELS AT END OF FORECAST PERIOD.

III. EVENT PROBABILITIES 30 NOVEMBER - 02 DECEMBER

CLASS M 40/5 0/50

CLASS X 05/10/15

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 NOVEMBER 167

PREDICTED 30 NOV-02 DECEMBER 172/174/176

90-DAY MEAN 29 NOVEMBER 157

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 28 NOVEMBER 04

ESTIMATED AFR/AP 29 NOVEMBER 06/08

PREDICTED AFR/AP 30 NOV-02 DECEMBER 08/12 - 10/14 - 14/16

SOLTERWARN

BT

HFUS 1 BOU 292200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 333

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 NOVEMBER 1979

IA. SOLAR ACTIVITY HAS CONTINUED AT ITS LOW LEVEL DURING THE PAST 24 HOURS WITH ONLY SUBFLARES OBSERVED. THE LARGEST, A C4/SB FROM REGION 2153 (S21E50) REACHED MAXIMUM AT 2052Z WITH AN ASSOCIATED BRIGHT SURGE OBSERVED. THIS REGION IS THE MOST MAGNETICALLY COMPLEX ON THE DISK, AS A BETA-DELTA WITH THE DELTA LOCATED IN THE CENTRAL LARGE SPOT AS A SMALL FINGER OF PENUMBRA SHOWING TRAILER POLARITY. REGION 2137 (S16W67) PRODUCED 3 SUBFLARES, THE LARGEST A C1/SB OBSERVED IN THIS REGION AS IT APPROACHES THE WEST LIMB. NEW REGION 2155 (N10E22) HAS EMERGED ON THE DISK AS A SIMPLE B-TYPE GROUP, WHILE NEW REGION 2156 (S25E71) HAS COME OVER THE LIMB AS A C-TYPE GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, BUT WITH A GENERAL INCREASE IN THE NUMBER OF C-CLASS X-RAY FLARES OBSERVED THROUGH THE NEXT 3 DAYS. RETURNING REGIONS COULD INCREASE THE LEVEL OF ACTIVITY BY THE THIRD DAY.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL 1650Z WHEN A VERY GRADUAL COMMENCEMENT WAS OBSERVED. UNSETTLED CONDITIONS HAVE BEEN OBSERVED SINCE THIS TIME. UNSETTLED TO OCCASIONALLY ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT 24 HOURS, GRADUALLY RETURNING TO QUIET LEVELS BY THE THIRD DAY.

III. EVENT PROBABILITIES 30 NOVEMBER - 02 DECEMBER

CLASS M 15/20/30

CLASS X 01/01/01

PREDICTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 NOV 158

PREDICTED 30 NOV-02 DEC 160/164/170

90-DAY MEAN 29 NOV 218

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 28 NOV 01

ESTIMATED AFR/AP 29 NOV 07/07

PREDICTED AFR/AP 30 NOV-02 DEC 14/14 08/10 06/08

SOLIERWARN

BT