

HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 339

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 06 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST
24 HOURS. REGION 1429 (S18W24) HAS BEEN THE MOST ACTIVE ON THE
DISK, PRODUCING A C7/SN FLARE (0746Z MAX) AND A C1/SB FLARE
(1843Z MAX). SUBFLARES WERE ALSO OBSERVED IN REGIONS 1442
(S24E34), AND 1437 (S30W40). REGIONS 1437 AND 1443 (S20E13)
HAVE SHOWN SOME GROWTH DURING THE PAST 24 HOURS.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVELS DURING THE
NEXT 24 HOURS. THE 1429/1432 COMPLEX (CENTERED AT S19W19) REMAINS
CAPABLE OF PRODUCING A LARGE EVENT. REGIONS 1442 AND NOW 1437
WILL PRODUCE SUBFLARES WITH SMALL M EVENTS POSSIBLE.

II. THE GEOMAGNETIC FIELD WAS AT LOW UNSETTLED LEVELS DURING
THE PAST 24 HOURS. UNSETTLED CONDITIONS WILL CONTINUE THROUGH
THE FORECAST PERIOD WITH A POSSIBILITY OF A GEOMAGNETIC STORM
OCCURRING WITH A LARGE FLARE.

III. EVENT PROBABILITIES 06-08 DECEMBER

CLASS M 70/70/75

CLASS X 10/10/15

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 DEC 174

PREDICTED 06-08 DEC 174/174/176

90-DAY MEAN 05 DEC 157

V. GOEMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 DEC 10

ESTIMATED AFR/AP 05 DEC 06/08

PREDICTED AFR/AP 06-08 DEC 08/10 - 12/15 - 14/20

SOLTERWARN

BT

HFUS 1 BOU 052-125

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 339

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 DEC 1979

IA. SOLAR ACTIVITY WAS AT A LOW TO MODERATE LEVEL THRU THE PAST 24 HOURS. MANY SMALL CLASS C EVENTS WERE RECORDED, THE LARGEST WAS A C-7 AT 04/2153Z FROM REGION 2165 (S14W35) AND A C-6 AT 05/1513Z FROM REGION 2156 (S25W09). SOME MAGNETIC COMPLEXITY EXISTS IN BOTH THESE AREAS: A STRONG ISOLATED POLE HAS FORMED IN THE CENTER OF REGION 2156, AND AN INCREASE IN GRADIENTS HAS DEVELOPED BETWEEN REGION 2165 AND REGION 2164 (S17W35). REGION 2159 (S15E03) HAS SHOWN SOME DEVELOPMENT WEST OF THE LARGE H-TYPE SPOT. THE NEUTRAL LINE HERE RUNS EAST-WEST. REGION 2161 (S25E26), THE PRODUCER OF EARLIER ACTIVITY, DOES CONTAIN MIXED POLARITIES BUT HAS BEEN QUIET TODAY. REGION 2169 (N20W09) IS A SMALL H-TYPE. SOME ADDITIONAL FLARE IS ROTATING ON TO THE DISK NEAR S15.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A MODERATE LEVEL WITH INFREQUENT CLASS M EVENTS. SEVERAL AREAS HAVE THE POTENTIAL FOR MORE ENERGETIC ACTIVITY; NAMELY REGION 2159, 2156, AND THE 2164/2165 COMPLEX. THE AREAS AROUND 2161 AND REGION 2162 (S13E48) SHOULD ALSO BE MONITORED FOR DEVELOPMENT.

II. THE GEOMAGNETIC FIELD HAS BEEN BASICALLY UNSETTLED THE PAST 24 HOURS. THESE CONDITIONS ARE EXPECTED TO CONTINUE THRU THE FORECAST PERIOD. A WEAK CORONAL HOLE IS CROSSING CM TODAY AND COULD RESULT IN AN INCREASE IN ACTIVITY AFTER THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06-08 DEC

CLASS M 50/50/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 DEC 234

PREDICTED 06-08 DEC 240/250/255

90-DAY MEAN 05 DEC 219

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 DEC 11

ESTIMATED AFR/AP 05 DEC 06/10

PREDICTED AFR/AP 06-08 DEC 12/14 06/08 08/10

SOLTERWARN

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