

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 343

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL FOR THE PAST
24 HOURS. SEVERAL C CLASS X-RAY FLARES HAVE OCCURRED DURING THE
PERIOD, FROM REGIONS 1429 (S18W80), 1447 (S18W24) AND 1446
(N21E34). AN M1 CLASS X-RAY FLARE OCCURRED AT 1100 U.T. HOW-
EVER NO OPTICAL CORRELATION DUE TO CLOUDS AT THE OBSERVATORIES.
NEW REGIONS 1450 (S19E05), B TYPE, AND 1451 (N42E62) SIMPLE A
TYPE, HOWEVER TRAILERS MAY APPEAR AS IT CONTINUES TO ROTATE ONTO
THE DISK.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVEL FOR THE FORE-
CAST PERIOD. REGIONS 1444 (S16E39), 1442 (S23W22) AND 1446
CONTINUE TO BE CAPABLE OF A X CLASS X-RAY FLARE. REGION 1429
MAY PRODUCE SOME LIMB EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD WILL REMAIN
QUIET TILL NEAR END OF FORECAST PERIOD WHEN CONDITIONS WILL
BECOME UNSETTLED.

III. EVENT PROBABILITIES 10 DECEMBER - 12 DECEMBER

CLASS M 80/80/80

CLASS X 15/15/20

PROTON 10/10/15

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 DECEMBER 206

PREDICTED 10-12 DECEMBER 210/212/212

90-DAY MEAN 09 DECEMBER 159

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 DECEMBER 03

ESTIMATED AFR/AP 09 DECEMBER 04/05

PREDICTED AFR/AP 10-12 DECEMBER 05/10 - 10/25 - 12/20

SOLTERWARN

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ISSUED 2200Z 09 DEC 1979

IA. SOLAR ACTIVITY HAS REMAINED LOW IN SPITE OF THE NUMEROUS
REGIONS ON THE DISK. REGION 2162 (S13W0) IS THE MOST THREATENING
IN APPEARANCE BUT HAS NOT PRODUCED ANY ACTIVITY. REGION 2162
HAS A BETA GAMMA CONFIGURATION WITH A FAIRLY TIGHT GRADIENT JUST
BEHIND THE LEADER SPOT. REGION 2176 (N18E43) ALSO APPEARS TO HAVE
FLARE POTENTIAL AND MAY HAVE A DELTA CONFIGURATION DEVELOPING
IN THE LEADER PENUMBRA. REGIONS 2159 (S15W57) AND 2183 (S16E29)
HAVE PRODUCED SUBFLARES. REGION 2159 IS DECAYING WHILE 2183, A
COMPACT BETA GAMMA TYPE, IS GROWING AND HAS AN EAST-WEST NEUTRAL
LINE. SMALL CHANGES HAVE OCCURRED IN OTHER REGIONS BUT HAVE NOT
RESULTED IN DYNAMIC ACTIVITY.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE WITH THE POTENTIAL
FOR "M" CLASS ACTIVITY INCREASING.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. UN-
SETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT 36 TO 48
HOURS.

III. EVENT PROBABILITIES 10 - 12 DEC

CLASS M 50/60/60

CLASS X 05/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 DEC 240

PREDICTED 10-12 DEC 240/237/233

90-DAY MEAN 09 DEC 222

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 DEC 08

ESTIMATED AFR/AP 09 DEC 09/09

PREDICTED AFR/AP 10-12 DEC 13/20 15/24 12/12

SOLTERWARN

BT