

HFUS 1 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 253

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 SEPTEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ONLY A
DOZEN SMALL C-CLASS FLARES WERE OBSERVED, BUT AMONG THESE WERE A
COUPLE OF OPTICAL CLASS IN FLARES SEEN IN REGION 1286 (N15E51)
WHICH APPEARS BRIGHTER TODAY IN H-ALPHA. REGIONS 1272/1282 (S31W73/
S23W77) HAVE PRODUCED SEVERAL OF THESE SMALL FLARES BUT NOTHING
COMMENSURATE WITH THEIR JOINT COMPLEXITY.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW LEVELS DURING
THE FORECAST PERIOD. THERE IS STILL A CHANCE OF ENERGETIC FLARE
ACTIVITY UNTIL THE REGION 1272/1282 COMPLEX COMPLETES WEST LIMB
PASSAGE.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE
PAST 24 HOURS. THE FIELD IS EXPECTED TO BE MILDLY UNSETTLED DURING
THE NEXT 48 HOURS WITH OCCASIONAL BRIEF ACTIVE PERIODS DURING LOCAL
NIGHT TIME HOURS.

III. EVENT PROBABILITIES 11 SEPTEMBER - 13 SEPTEMBER

CLASS M 30/25/20

CLASS X 10/10/05

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 SEPTEMBER 148

PREDICTED 11-13 SEPTEMBER 145/139/137

90-DAY MEAN 10 SEPTEMBER 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 SEPTEMBER 23

ESTIMATED AFR/AP 10 SEPTEMBER 10/13

PREDICTED AFR/AP 11-13 SEPTEMBER 08/10 - 08/10 - 11/15

SOLTERWARN

BT

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SDF NUMBER 253

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 SEPTEMBER 1979

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. REGION
1966 (S19W58) PRODUCED AN M1 X-RAY EVENT LAST NIGHT, BUT NO
FURTHER SIGNIFICANT ACTIVITY IS EXPECTED FROM THIS REGION. THE
1972/1980 COMPLEX PRODUCED ONLY TWO SUBFLARES, C-CLASS EVENTS, BUT
STILL HAS THE POTENTIAL OF AN M-CLASS EVENT. THE ACTIVE COMPLEX
IN THE VICINITY OF REGION 1979 HAS BEEN DIVIDED INTO THREE REGIONS
BASED UPON THE EXISTENCE OF THREE BIPOLAR GROUPS: REGION 1979
(N13E37), REGION 1982 (N10E39) AND REGION 1983 (N17E40).

IB. THE 1972/1980 COMPLEX AND THE 1979/1982/1983 COMPLEX, EACH
OFFER A 30 PERCENT CHANCE OF AN M-CLASS X-RAY EVENT DURING THE
NEXT 24 HOURS. OVERALL SOLAR ACTIVITY WILL BE IN THE MODERATE
CATEGORY.

II. THE GEOMAGNETIC FIELD WAS QUIET, BUT IT IS EXPECTED TO INCREASE
TO UNSETTLED ON 10 SEPTEMBER AND THEN TO ACTIVE/MINOR STORM LEVELS
ON 12 SEPTEMBER. THIS INCREASE IS EXPECTED DUE TO A FILAMENT THAT
DISAPPEARED IN THE NORTHEAST ON 08 SEPTEMBER.

III. EVENT PROBABILITIES 11 SEPTEMBER - 13 SEPTEMBER

CLASS M 50/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 SEPTEMBER 182

PREDICTED 11-13 SEPTEMBER 183/184/188

90-DAY MEAN 10 SEPTEMBER 168

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 SEPTEMBER 03

ESTIMATED AFR/AP 10 SEPTEMBER 10/10

PREDICTED AFR/AP 11-13 SEPTEMBER 10/10 - 25/20 - 14/12

SOLTERWARN

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