

HFUS 180U 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 246

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 03 SEPTEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE THE PAST 24 HOURS.
NEARLY ALL FLARING ACTIVITY HAS OCCURRED IN REGION 1272 (S31E15).
THE LARGEST EVENT WAS A SB/C9 AT 1921Z. REGION 1272 IS LARGE AND
COMPLEX. REGIONS 1271 (N17E00) AND 1276 (N16W00) ARE BOTH SIMPLE;
HOWEVER, THE TRAILER OF REGION 1276 HAS NEARLY COLLIDED WITH THE
LEADER OF 1271. GRADIENTS ARE STEEPENING AT THE COLLISION POINT.
THERE ARE ELEVEN SPOTTED REGIONS ON THE DISK BUT ONLY THESE
THREE ARE SIGNIFICANT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH AN X EVENT
PROBABLE THROUGH THE PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS
EXPECTED TO BE UNSETTLED UNTIL THE LATTER PORTION OF 05 SEPTEMBER,
WHEN THE FIELD IS EXPECTED TO BECOME ACTIVE WITH SHORT PERIODS AT
STORM LEVEL. THIS EXPECTED DISTURBANCE IS DUE TO A SMALL EQUATORIAL
CORONAL HOLE.

III. EVENT PROBABILITIES 04 SEPTEMBER - 06 SEPTEMBER

CLASS M	90/80/80
CLASS X	50/40/40
PROTON	30/35/40
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	03 SEPTEMBER 164
PREDICTED	04-06 SEPTEMBER 166/166/164
90-DAY MEAN	03 SEPTEMBER 132

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	02 SEPTEMBER 21
ESTIMATED AFR/AP	03 SEPTEMBER 10/13
PREDICTED AFR/AP	04-06 SEPTEMBER 10/10 - 10/12 - 25/30

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SDF NUMBER 246

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 03 SEPTEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE. DESPITE ITS APPARENT SIMPLE
STRUCTURE, REGION 1966 (S19E41) AGAIN PRODUCED A M1/18 AT 2428Z.
WEAK CENTIMETRIC RANGE BURSTS AND SHORT WAVE FADE WERE REPORTED.
CULGOORA REPORTED A WEAK TO MEDIUM INTENSITY TYPE II RF BURST
WHICH WAS FOLLOWED BY A VERY WEAK TYPE IV RF BURST FOR THIS FLARE.
RAPIDLY DEVELOPING REGION 1967 (N14E28) PRODUCED A M1/SB AT 1857Z.
MODERATE CENTIMETRIC RANGE BURSTS AND SHORT WAVE FADE ACCOMPANIED
THIS FLARE. ALSO, A "CLOUD" BEGAN TO APPEAR NEAR 1700Z AT NW 37.
ATTAINED MAXIMUM DENSITY AND BRIGHTNESS NEAR 1730Z WITH AN ARCH
CONFIGURATION; AND, DISSIPATED BY 1815Z. APPARENTLY OLD REGION
1943 REMAINS ACTIVE BEYOND WEST LIMB. REGION 1962 (N21E11)
CONTINUES A STRONG GROWTH IN SUNSPOT STRUCTURE BUT HAS NOT YET
PRODUCED ANY SIGNIFICANT FLARE. NEARBY REGION 1963 (N12E08) DOES
NOT HAVE A LARGE SUNSPOT STRUCTURE BUT DOES CONTAIN A COMPLEX
NEUTRAL LINE. REGION 1971 (S20W16) IS EMERGING AT A MODERATE
GROWTH RATE TODAY. SPOT GROWTH HAS ALSO OCCURRED IN REGION 1960
(N17W81).

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. GROWTH IN SEVERAL
REGIONS AND PAST ACTIVITY IN REGION 1966 INDICATES A TREND TOWARD
INCREASING NUMBERS OF ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED. GENERALLY
UNSETTLED CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 SEPTEMBER - 06 SEPTEMBER

CLASS M 50/60/70

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 SEPTEMBER 178

PREDICTED 04-06 SEPTEMBER 178/178/178

90-DAY MEAN 03 SEPTEMBER 171

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 02 SEPTEMBER 06

ESTIMATED AFR/AP 03 SEPTEMBER 07/10

PREDICTED AFR/AP 04-06 SEPTEMBER 06/10 - 10/10 - 10/10

SOLTERWARN

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