

HFUS -1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 259

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 SEPTEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1294 (N36E30) HAD A SB/M2 AT 1330Z; REGION 1289 (N29E18) HAD A 1B/C5 AT 1744Z; AND, REGION 1287 (N37E12) HAD A 2B/C9 AT 1958Z. ALL THREE FLARES HAD MINOR CENTIMETRIC BURSTS AND SHORT WAVE FADES. H-ALPHA STRUCTURE IN THIS THREE REGION COMPLEX IN UNSTABLE WITH A COMMON NEUTRAL LINE TWISTING THROUGH THE REGIONS. REGION 1294 STILL RETAINS A DELTA CONFIGURATION.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS. THERE IS A CHANCE FOR A FLARE INDUCED MAGSTORM TOWARD THE END OF THE PERIOD.

III. EVENT PROBABILITIES 17-19 SEPT

CLASS M 80/80/80

CLASS X 20/30/30

PROTON 10/20/30

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 SEP 160

PREDICTED 17-19 SEP 170/177/183

90-DAY MEAN 16 SEP 137

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 SEP 02

ESTIMATED AFR/AP 16 SEP 06/05

PREDICTED AFR/AP 17-19 SEP 10/07 - 07/10 - 10/15

SOLTERWARN

BT

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 SEPTEMBER 1979

IA. SOLAR ACTIVITY WAS VERY HIGH DURING THE PAST 24 HOURS. REGION
1994 (N06E73) APPEARS TO BE A MAGNETICALLY COMPLEX REGION AND HAS
PRODUCED TWO X-CLASS X-RAY EVENTS. THE FIRST WAS AT 0101Z, MAX AT
0113Z, X2; THE SECOND WAS AT 0937Z, MAX AT 0942Z, X4, OPTICAL

2B. THIS REGION ALSO PRODUCED AN M3 EVENT AT 0759Z. REGION 1982
(N08W44), A BETA-GAMMA MAGNETIC CONFIGURATION, PRODUCED AN
M2/SB FLARE AT 1945Z. OLD REGION 1988 (S10W23) NOW HAS SPOTS ONCE
AGAIN, BUT IT, AND ALL OTHER REGIONS, WERE QUIET TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT HIGH TO VERY HIGH LEVELS.
REGION 1994 HAS A VERY HIGH POTENTIAL FOR A MAJOR FLARE. REGION 1982
IS ALSO VERY CAPABLE OF AN M-CLASS EVENT.

II. THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED TODAY. IT IS FORE-
CAST TO INCREASE TO ACTIVE ON 18 SEPTEMBER, DUE TO THE MAJOR FLARE
OF 14 SEPTEMBER. THE GEOMAGNETIC EFFECTS OF TODAY'S MAJOR FLARES
ARE NOT EXPECTED TO BE FELT BEFORE 20 SEPTEMBER.

III. EVENT PROBABILITIES 17 SEPTEMBER - 19 SEPTEMBER

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 50/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 SEPTEMBER 196

PREDICTED 17-19 SEPTEMBER 202/207/210

90-DAY MEAN 16 SEPTEMBER 170

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 SEPTEMBER 07

ESTIMATED AFR/AP 16 SEPTEMBER 08/11

PREDICTED AFR/AP 17-19 SEPTEMBER 10/25 - 20/30 - 15/20

SOLTERWARN

BT

Sept 20
30/X