

HFUS 1 BOU 071300Z
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 250A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 07 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
06/1200Z TO 07/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
24 HOURS. NO EVENT HAS EXCEEDED C1 INTENSITY. REGION
3886(N14W09) HAS DIMINISHED IN SIZE, INTENSITY AND ACTIVITY.
ITS SPOT GROUP IS NOW A SMALL AND SIMPLE CLASS D. MINOR NEW
GROWTH IS REPORTED IN REGION 3883(S19W52), ALSO A SMALL CLASS D
SPOT GROUP. THE MAGNETIC CONFIGURATION HAS GROWN MORE COMPLEX
HFRE. A GRADUAL INCREASE IN PLAGE AREA AND INTENSITY HAS
OCCURRED IN REGION 3895(S11E53) ADJACENT TO THE WEST EDGE OF
ITS LARGE SYMMETRIC SUNSPOT. THIS ACTIVITY APPEARS TO BE A
CONSEQUENCE OF SLOW, LARGE-SCALE CONVERGENCE BETWEEN ADJACENT
LONG-LIVED MAGNETIC STRUCTURES. SMALL SPOTS HAVE AGAIN
APPEARED IN SMALL REGION 3888 (N25W56).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW, BUT WITH ONE OR TWO ISOLATED CLASS M EVENTS IN THE
NEXT 3 DAYS. REGION 3886 SHOULD REMAIN INACTIVE UNLESS NEW
SPOTS AND/OR RENEWED FILAMENT ACTIVITY OCCUR. FURTHER GROWTH
AND COMPLICATION IN REGION 3895 IS EXPECTED TO INCREASE ITS
FLARE ACTIVITY TOWARD A MODERATE LEVEL AND CREATE A
REVERSED-POLARITY MAGNETIC CONFIGURATION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE MAJOR MAGNETIC STORM
CONTINUED THROUGHOUT THE PAST 24 HOURS. A DECREASE TO MINOR
STORM CONDITIONS IS EXPECTED IN THE NEXT 6 HOURS WITH ACTIVE TO
UNSETTLED CONDITIONS WITHIN 24 HOURS. A QUIET DAY IS EXPECTED
ON 10 SEPTEMBER. THE MINOR PROTON EVENT DROPPED BELOW EVENT
LEVEL BY 06/1400Z.

III. EVENT PROBABILITIES 08 SEP-10 SEP

CLASS M 60/50/40

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 SEP 169

ESTIMATED 07 SEP 166

PREDICTED 08 SEP-10 SEP 162/158/155

90 DAY MEAN 06 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 SEP 034 4P 06 SEP 174

ESTIMATED AFR 06 SEP 140 AFR/AP 07 SEP 042/055

PREDICTED AFR/AP 08 SEP-10 SEP 020/020-015/020-010/015

SOLTERWARN

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HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 250B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 07/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT WAS A C6 (X-RAY MAX AT 1829Z) ASSOCIATED WITH A 1N FLARE IN REGION 3895 (S10E49) AND A SB IN REGION 3885 (N11W31).

BEFORE THE SB DECAYED, IT REACTIVATED TO A 1B WITH ASSOCIATED X-RAY MAXIMUM OF C4 AT 1854Z. THESE FLARES WERE LOCATED ADJACENT TO THE LEAD PENUMBRA OF BOTH REGIONS - WHERE NEW SPOT STRUCTURE HAS EMERGED. THIS GROWTH SHOULD CAUSE CONTINUED FLARING FOR THESE REGIONS. REGION 3886 (N14W13) HAS REMAINED QUIET WITH NO SIGNIFICANT CHANGE. REGION 3888 (N25W67) HAS REGROWN AND HAS AN ARCH FILAMENT SYSTEM AS DOES REGION 3889 (S09E14). REGION 3898 (N21W05) HAS EMERGED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH ONE OR TWO ISOLATED CLASS M EVENTS THROUGH THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS REMAINED AT MAJOR STORM LEVEL. THE STORM IS EXPECTED TO ABATE DURING THE NEXT 12 HOURS. SUBSEQUENT ACTIVE CONDITIONS ARE EXPECTED TO SUBSIDE TO SLIGHTLY UNSETTLED CONDITIONS ON 10 SEPTEMBER.

III. EVENT PROBABILITIES 08 SEP-10 SEP

CLASS M 60/50/40

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 SEP 174

PREDICTED 08 SEP-10 SEP 174/170/168

90 DAY MEAN 07 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 SEP 139/174

ESTIMATED AFR/AP 07 SEP 048/075

PREDICTED AFR/AP 08 SEP-10 SEP 020/030-015/020-010/015

SOLTERWARN

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