

HFUS 1 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 267A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 24 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200Z TO 24/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE
FREQUENCY OF OCCURRENCE OF C CLASS SUBFLARES HAS INCREASED IN
NUMBER FOR THIS REPORT PERIOD. REGION 3907 (S13W58) HAS BEEN
RESTRUCTURING, RELATIVE SPOT ORIENTATIONS APPEAR TO BE CHANGING
AND THE MAGNETIC GRADIENT IN THE REGION HAS INCREASED.
COMPLEXITY IN REGION 3910 (N14W37) HAS INCREASED. SURGING IS
REPORTED ON THE EAST LIMB FROM NE15 TO SE20. AN UNCONFIRMED
REPORT OF SPOTS AND A C4/SF FLARE AT 24/0702Z HAVE BEEN
REPORTED FOR A REGION AT NE15.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
INCREASE. AN OCCASIONAL M FLARE MAY BECOME POSSIBLE IN REGION
3907 OR FROM REGIONS AT OR SOON EXPECTED OVER THE EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE. UNSETTLED TO NEAR ACTIVE CONDITIONS SHOULD
PREVAIL SHOWING A DECREASING TREND EARLY IN THE FORECAST
PERIOD. A RECURRENT ACTIVE PERIOD SHOULD APPEAR AGAIN AT THE
END OF THE PERIOD.

III. EVENT PROBABILITIES 25 SEP-27 SEP

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 SEP 152

ESTIMATED 24 SEP 160

PREDICTED 25 SEP-27 SEP 168/176/182

90 DAY MEAN 23 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 SEP 084 AP 23 SEP 026

ESTIMATED AFR 23 SEP 021 AFR/AP 24 SEP 015/015

PREDICTED AFR/AP 25 SEP-27 SEP 012/020-012/020-015/015

SOLTERWARN

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BT
HFUS 3 BOU 242200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 267B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 24 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 24/2100Z: SOLAR ACTIVITY SINCE 12Z HAS CONTINUED AT
LOW LEVELS. DURING THE PERIOD ONLY WEAK C CLASS XRAY SUBFLARES
HAVE BEEN OBSERVED. NUMEROUS NEW SMALL SUNSPOT GROUPS HAVE
BEGUN FORMING NEAR THE EAST LIMB OF THE SUN. INCLUDED IN THE
LIST OF NEW REGIONS ARE 3920 (S06W21) 3921 (S20E73) 3922
(N15E70) AND 3923 (S02E80).

IB. SOLAR ACTIVITY FORECAST: AT PRESENT THERE ARE NO FEWER THAN
13 SPOTTED REGIONS ON THE SOLAR DISK. HOWEVER ALL OF THE
REGIONS ARE CURRENTLY VERY SMALL AND MAGNETICALLY SIMPLE.
THEREFORE UNTIL FURTHER GROWTH OCCURS ACTIVITY WILL REMAIN AT
LOW LEVELS.

II. GEOPHYSICAL SUMMARY AND FORECAST: DURING THE DAY THE
GEOMAGNETIC FIELD WAS ACTIVE. GEOMAGNETIC ACTIVITY IS EXPECTED
TO DECLINE OVER THE NEAR TERM WITH GENERALLY UNSETTLED
CONDITIONS PREVAILING DURING THE NEXT ONE TO THREE DAYS.

III. EVENT PROBABILITIES 25 SEP-27 SEP

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEP 166

PREDICTED 25 SEP-27 SEP 173/175/177

90 DAY MEAN 24 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 SEP 020/026

ESTIMATED AFR/AP 24 SEP 015/024

PREDICTED AFR/AP 25 SEP-27 SEP 012/020-012/020-015/015

SOLTERWARN

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