

BT
HFUS 1 BOU 251300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 268A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 25 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGIONS
3922(N15E64) AND 3923(S02E74) MOVED ONTO THE SOLAR DISK IN A
SOMEWHAT DISTURBED STATE WITH SURGING AND INTENSE PLAGE. THEY
NOW GIVE INDICATION OF RELATIVELY SIMPLE
STRUCTURES. PENDING FURTHER DEVELOPMENT IN THESE REGIONS THEY
APPEAR INCAPABLE OF MAJOR ACTIVITY. REGIONS 3920(206W27) AND
3921(S20E67) APPEAR STABLE. REMAINING REGIONS ALL APPEAR TO BE
DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN DECLINING RAPIDLY FROM ACTIVE TO QUIET LEVELS. THE FIELD
IS EXPECTED TO BE QUIET EARLY AND BACK TO ACTIVE LEVELS BY THE
END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 SEP-28 SEP

CLASS M 25/25/30
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEP 166
ESTIMATED 25 SEP 175
PREDICTED 26 SEP-28 SEP 183/188/192
90 DAY MEAN 24 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 SEP 020 AP 24 SEP 022
ESTIMATED AFR 24 SEP 015 AFR/AP 25 SEP 008/011
PREDICTED AFR/AP 26 SEP-28 SEP 012/015-016/015-018/015

SOLTERWARN

BT

HFUS 3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 268B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 25 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 25/2100Z: SINCE THE LAST REPORT AT 12Z SOLAR
ACTIVITY HAS REMAINED AT LOW LEVELS. ONLY MINOR PLAGE
FLUCTUATIONS AND WEAK C-CLASS XRAY FLARES HAVE BEEN OBSERVED.
WHILE REGIONS ON THE WESTERN HALF OF THE DISK ARE GENERALLY
DECLINING SLOW GROWTH HAS CONTINUED TO MANIFEST ITSELF EAST OF
CENTRAL MERIDIAN. REGION 3922 (N14E55) HAS MORE THAN
QUADRUPLED IN SIZE SINCE YESTERDAY WITH FURTHER GROWTH
ANTICIPATED. ADDITIONALLY A NEW REGION 3924 (S18E73) APPEARS
TO HAVE ROTATED ONTO THE DISK. OTHER REGIONS NOT MENTIONED
HAVE REMAINED STABLE AND UNINTERESTING.

IB. SOLAR ACTIVITY FORECAST: DESPITE THE SLOW GROWTH ON THE
EASTERN HALF OF THE SUN ALL OF THE REGIONS ON THE DISK ARE
MAGNETICALLY SIMPLE AND INCAPABLE OF MAJOR FLARE ACTIVITY.
THEREFORE SOLAR ACTIVITY IS EXPECTED TO REMAIN AT GENERALLY LOW
LEVELS OVER THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN GENERALLY UNSETTLED DURING THE DAY. THE FIELD IS EXPECTED
TO REMAIN UNSETTLED EARLY IN THE FORECAST PERIOD WITH A GRADUAL
TREND TOWARDS ACTIVE CONDITIONS BY THE THIRD DAY.

III. EVENT PROBABILITIES 26 SEP-28 SEP

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 SEP 170

PREDICTED 26 SEP-28 SEP 173/176/178

90 DAY MEAN 25 SEP 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 SEP 014/022

ESTIMATED AFR/AP 25 SEP 010/011

PREDICTED AFR/AP 26 SEP-28 SEP 012/013-016/012-018/015

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