

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 264A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 21 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200Z TO 21/1200Z: SOLAR ACTIVITY REMAINS LOW WITH ONLY AN OCCASIONAL SUBFLARE AND LOW LEVEL CLASS C X-RAY BURST. THE FLUX THAT EMERGED IN THE TRAILER OF REGION 3910 (N14E03) YESTERDAY WAS BROKEN OFF AS REGION 3914 (N16E08). REGION 3910 IS NOW A UNIPOLAR GROUP. SOME MINOR ARCH FILAMENT STRUCTURE IN REGION 3907 (S12W18) INDICATES SLOW STRUCTURAL CHANGES CONTINUING IN THIS REGION. THE EAST LIMB REMAINS QUIET.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS ACTIVE UNTIL A SUDDEN COMMENCEMENT OF 62 GAMMAS OCCURRED AT 0339Z. THIS SC WAS EMERSED IN A DISTURBED FIELD. STORM LEVELS IMMEDIATELY FOLLOWED THE SC. SOLAR WIND SPEED AT ISEE-3 REACHED AS HIGH AS 1000 KM/S. THE FIELD IS EXPECTED TO BE GENERALLY AT STORM LEVEL THROUGH 22 SEPTEMBER WITH GRADUAL ABATEMENT THROUGH ACTIVE TO UNSETTLED CONDITIONS BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 SEP-24 SEP

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 SEP 146

ESTIMATED 21 SEP 148

PREDICTED 22 SEP-24 SEP 146/144/142

90 DAY MEAN 20 SEP 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 SEP 020 AP 20 SEP .025

ESTIMATED AFR 20 SEP 017 AFR/AP 21 SEP 039/050

PREDICTED AFR/AP 22 SEP-24 SEP 030/035-015/025-012/020.

SOLTERWARN

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 264B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
21/1200Z TO 21/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW TO VERY
LOW FOR THE PAST NINE HOURS. THE SOLAR XRAY INTENSITY HAS NOT
EXCEEDED C0 FOR THIS ENTIRE PERIOD. ALL SUNSPOT GROUPS
PRESENTLY ARE SMALL AND DECLINING. REGIONS 3807 (S12W25) AND
3814 (N16E02) RETAIN SMALL AREAS OF COMPLEX MAGNETIC FIELDS WITH
STEEP GRADIENTS. LARGE CORONAL HOLES IN BOTH THE NORTHERN AND
SOUTHERN HEMISPHERES DOMINATE THE EASTERN HALF OF THE SOLAR
DISK.

IB. SOLAR ACTIVITY FORECAST: NO INCREASE IN SOLAR ACTIVITY IS
EXPECTED FOR THE NEXT FIVE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE MINOR GEOMAGNETIC
STORM HAS CONTINUED ALL THIS PERIOD WITH LITTLE DECREASE IN
INTENSITY. SOME INCREASE IN SEVERITY IS EXPECTED DURING THE
NEXT 12 HOURS. CONDITIONS THEREAFTER ARE EXPECTED TO BECOME
ONLY ACTIVE AND REMAIN SO FOR THE REMAINDER OF THE FORECAST
PERIOD.

III. EVENT PROBABILITIES 22 SEP-24 SEP

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEP 144

PREDICTED 22 SEP-24 SEP 146/144/142

90 DAY MEAN 21 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 SEP 020/025

ESTIMATED AFR/AP 21 SEP 044/050

PREDICTED AFR/AP 22 SEP-24 SEP 020/025-015/020-012/020

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