

FUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 221

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 09 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100
TO 09/2100Z: SOLAR ACTIVITY WAS AT A LOW LEVEL. REGIONS 4263
(S10W87) AND 4267 (S22W81) ARE QUIETLY CROSSING THE WEST LIMB
PRODUCING ONLY SMALL SURGES. THE AREA AROUND REGION 4278 HAS
BEEN DIVIDED INTO THREE GROUPS: REGION 4279 (S13E52), REGION
4278 (S08E58) AND REGION 4280 (S05E53). REGION 4279 APPEARS TO
BE GROWING WITH AFS BEING REPORTED. ONLY SMALL C CLASS FLARES
HAVE BEEN REPORTED FROM THESE GROUPS. ONLY ONE OTHER SPOT
GROUP IS VISIBLE ON THE DISK, REGION 4274 (S17W48). A SMALL
AREA OF PLAGE HAS ROTATED ON TO THE DISK NEAR N11E75.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. M CLASS FLARES ARE EXPECTED FROM THE COMPLEX
OF REGIONS IN THE SOUTHEAST. MORE ENERGETIC ACTIVITY IS
POSSIBLE IF RAPID CHANGE IN THAT AREA OCCURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z:
THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED. ACTIVE
CONDITIONS WERE OBSERVED AT THE START OF THE UT DAY BUT THE
FIELD WAS NEARLY QUIET BY 1500Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO REMAIN BASICALLY QUIET TO UNSETTLED FOR THE PERIOD.
MINOR INCREASES TO ACTIVE LEVELS ARE POSSIBLE IN NIGHT TIME
SECTORS.

III. EVENT PROBABILITIES 10 AUG-12 AUG

CLASS M 75/75/75

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 AUG 139

PREDICTED 10 AUG-12 AUG 137/135/133

90 DAY MEAN 09 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 AUG 044/067

ESTIMATED AFR/AP 09 AUG 012/015

PREDICTED AFR/AP 10 AUG-12 AUG 010/015-010/015-015/015

SOLTERWARN

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