

FUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 220

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 08 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100
TO 08/2100Z: SOLAR ACTIVITY WAS AT A MODERATE LEVEL. SMALL
CLASS M FLARES WERE OBSERVED FROM REGION 4263 (S10W75) AT
07/2153Z AND FROM REGION 4278 (S06E64) AT 08/0248Z AND
08/0410Z. SOME GROWTH WAS AGAIN REPORTED IN THE TRAILER OF
REGION 4263 EARLIER IN THE DAY BUT NOW IT APPEARS TO BE
DECLINING AS IT CROSSES WEST LIMB. REGION 4278 NOW DOMINATES
THE DISK. IT MAY BE THREE SEPARATE REGIONS RESULTING IN A BETA
GAMMA MAGNETIC CONFIGURATION. INDIVIDUAL REGION ASSIGNMENTS
WILL PROBABLY BE MADE IN THE NEXT COUPLE DAYS. ADDITIONAL
REGIONS MAY BE ABOUT TO CROSS THE EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
AT A MODERATE LEVEL. ADDITIONAL CLASS M FLARES ARE LIKELY FROM
THE 4278 COMPLEX IN THE SOUTHEAST. REGION 4263 MAY YET
PRODUCE AN ENERGETIC EVENT AS IT CROSSES THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z:
THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVELS (K'S OF SIX AND
SEVEN) AT MIDLATITUDES TO MAJOR STORM LEVELS (K'S OF NINE) AT
HIGH LATITUDES. THE STORM BEGAN GRADUALLY AFTER 07/2100Z AND
IS BEING ATTRIBUTED TO FLARES FROM REGION 4263.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE AT ACTIVE LEVELS EARLY IN THE PERIOD ESPECIALLY
IN NIGHT TIME SECTORS. THE FIELD SHOULD THEN RETURN TO
UNSETTLED CONDITIONS FOR THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 09 AUG-11 AUG

CLASS M : 75/75/75
CLASS X : 05/05/05
PROTON : 01/01/01
PCAF : GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED : 08 AUG 137
PREDICTED : 09 AUG-11 AUG 137/136/135
90 DAY MEAN : 08 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 AUG 016/016
ESTIMATED AFR/AP 08 AUG 045/070
PREDICTED AFR/AP 09 AUG-11 AUG 020/020-015/015-015/015

SOLTERWARN

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