

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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