

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 (KYS OF SIX AND SEVEN) AT MIDLATITUDES TO MAJOR STORM LEVELS (KYS 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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