

FUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 215

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 AUG 1983

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4263(S09W13) PROVIDED M1/1B FLARES AT 02/2337Z AND 02/2358Z. A C3/SB FLARE OCCURRED IN THE LEADER OF REGION 4263 AT 03/1417Z FOLLOWED BY AN M1/1B INITIAL PHASE IN REGION 4267(S21W01) OF A SIMULTANEOUS EVENT IN THE REGION COMPLEX. AS REGION 4267 REACHED MAXIMUM A FLARE BEGAN ACROSS THE INVERSION LINE IN THE TRAILER OF REGION 4263. THE SIMULTANEOUS FLARE MAXIMUM REACHED M2/1B/1B AT 1515Z AND THE TOTAL DURATION WAS GREATER THAN 1 HOUR. A TENFLARE OF 1440 FLUX UNITS AND SIGNIFICANT EMISSION AT THE HIGHER DISCRETE FREQUENCIES OBSERVED ACCCOMPANIED THE EARLY PHASE IN REGION 4267. GRADIENTS HAVE BEGUN TO RELAX AND THE REGION COMPLEX APPEARS TO BE DECLINING.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE MODERATE WITH SEVERAL MORE M CLASS EVENTS POSSIBLE DURING DECLINE OF THE REGIONS IN THE REGION COMPLEX.

II A. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO NEAR UNSETTLED HAVING DECLINED FROM THE HIGHER LEVELS PREVIOUSLY ATTRIBUTED TO CORONAL HOLE SOURCES.

II B. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO INCREASE TO MINOR STORM LEVEL BY LATE ON 4 AUG. MINOR STORM TO ACTIVE LEVELS SHOULD CONTINUE THREOUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 AUG-06 AUG

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 AUG 141

PREDICTED 04 AUG-06 AUG 138/132/129

90 DAY MEAN 03 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 AUG 027/037

ESTIMATED AFR/AP 03 AUG 015/020

PREDICTED AFR/AP 04 AUG-06 AUG 026/025-032/025-018/015

SOLTERWARN

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