

FUS 3 BDU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 213

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 01 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100
TO 01/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN M8/2B EVENT
WAS OBSERVED AT 0256Z FROM REGION 4263(S10E17) ACCOMPANIED BY
MINOR DISCRETE CENTIMETRIC AND IMPORTANCE TWO TYPE II AND IV
SWEEP EMISSION. A FILAMENT DISAPPEARANCE FOLLOWED AFTER 0400Z
FROM (S04E31) NEAR THE REGION. THE MAGNETIC GRADIENT NEAR THE
CENTER OF REGION 4263 HAS INCREASED SIGNIFICANTLY AND A DELTA
HAS DEVELOPED. THE LARGE COMPLEX IN THE SOUTHEAST QUADRANT
CONTAINING THIS REGION SHOWS A GREAT DEAL OF STRUCTURE. OTHER
REGIONS APPEAR SMALL AND STABLE. A NEW REGION FLARED NEAR THE
EAST LIMB TODAY AND NOW SHOWS A FEW SPOTS. IT IS NUMBERED
REGION 4272(N04E77).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE MODERATE WITH ONE OR MORE ISOLATED MAJOR FLARES
EXPECTED IN THE REGION COMPLEX IN THE NEXT FEW DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO NEAR QUIET
CONDITIONS DURING THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: A POSSIBLE INCREASE TO
UNSETTLED TO NEAR ACTIVE CONDITIONS MAY RESULT FROM A CORONAL
HOLE MOVING TO A FAVORABLE POSITION. ACTIVE TO MINOR STORM
LEVELS ARE LIKELY TO OCCUR MID TO LATE HOURS OF 4 AUG IN
RESPONSE TO THE M8 FLARE.

III. EVENT PROBABILITIES 02 AUG-04 AUG

CLASS M 70/60/60

CLASS X 10/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 AUG 147

PREDICTED 02 AUG-04 AUG 148/146/141

90 DAY MEAN 01 AUG 134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 JUL 009/012

ESTIMATED AFR/AP 01 AUG 013/015

PREDICTED AFR/AP 02 AUG-04 AUG 012/015-014/015-026/020

SOLTERWARN

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