

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 061

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 02 MAR 1989

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100Z
TO 02/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 5378 (N15W91)
PRODUCED TWO M-LEVEL X-RAY FLARES AN M2/SF AT 02/0336Z AND AN
M1/SF AT 02/1148Z. THIS REGION HAS CROSSED THE WEST LIMB TODAY
HOWEVER, SURGING CONTINUES TO BE OBSERVED IN THIS AREA. REGION
5383 (N18W18) PRODUCED AN M2/1N AT 02/0911Z. THE FOURTH M-LEVEL
FLARE, AN M1, OCCURED AT 02/0619Z AND WAS NOT OPTICALLY
OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. REGION 5378 MAY PRODUCE A BEHIND-THE-LIMB
EVENT IN THE NEXT 24 HOURS. OLD REGION 5354 (N30, L-283) IS DUE
TO RETURN LATE ON 03 MARCH. THIS REGION IS EXPECTED TO
SIGNIFICANTLY INCREASE ACTIVITY LEVELS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN MOSTLY ACTIVE AT MIDDLE
LATITUDES AND ACTIVE TO MAJOR STORM LEVELS AT HIGH LATITUDES.
A SUDDEN IMPULSE OF 15 NANOTESLA WAS OBSERVED AT MIDDLE
LATITUDES AT 02/0245Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE ACTIVE TO UNSETTLED. HIGH LATITUDES MAY
EXPERIENCE BRIEF INTERVALS OF MINOR STORM CONDITIONS.

III. EVENT PROBABILITIES 03 MAR-05 MAR

CLASS M 40/45/50

CLASS X 05/05/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAR 177

PREDICTED 03 MAR-05 MAR 180/185/190

90 DAY MEAN 02 MAR 220

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 MAR 011/014

ESTIMATED AFR/AP 02 MAR 020/025

PREDICTED AFR/AP 03 MAR-05 MAR 015/018-010/012-010/012