

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 088

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 29 MAR 1989

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100Z
TO 29/2100Z: SOLAR ACTIVITY WAS LOW. REGION 5417 (S25W38)
CONTINUES TO DECAY SLOWLY. THIS REGION HAS ONLY PRODUCED
A FEW SUBFLARES DURING THE PAST DAY. NEW REGION 5428 (S18E76)
ROTATED AROUND THE EAST LIMB AS A MODERATELY LARGE D-TYPE
SUNSPOT GROUP. THIS REGION HAS PRODUCED A FEW C-CLASS SUBFLARES
WHILE STILL ON THE EAST LIMB. NEW REGION 5429 (N17W64) EMERGED
AS A SMALL BIPOLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. AN ISOLATED M-CLASS FLARE IS POSSIBLE FROM
REGION 5417. REGION 5428 MAY BE CAPABLE OF ENERGETIC FLARES
BUT IT IS STILL TOO NEAR THE EAST LIMB FOR PROPER ANALYSIS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z:
THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVELS. THE
GEOMAGNETIC STORM WHICH BEGAN AT 27/1342Z REMAINS IN PROGRESS.

IIIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE AT MINOR STORM TO ACTIVE LEVELS FOR THE NEXT
24 HOURS. THEREAFTER, UNSETTLED TO ACTIVE CONDITIONS ARE
FORECAST.

III. EVENT PROBABILITIES 30 MAR-01 APR

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAR 158

PREDICTED 30 MAR-01 APR 155/160/165

90 DAY MEAN 29 MAR 223

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 MAR 033/030

ESTIMATED AFR/AP 29 MAR 038/037

PREDICTED AFR/AP 30 MAR-01 APR 025/032-015/025-010/020