

HFUS3 BOU 252200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 084

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 25 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100
TO 25/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4637 (N07E38)
RETAINED ITS BETA-TYPE BUT DECREASED SLIGHTLY IN MOST
WHITE-LIGHT ASPECTS. IT PRODUCED BRIGHT POINTS WITH A B1 X-RAY
EVENT AT 25/0212Z. REGION 4638 (N03W63) SIMPLIFIED TO AN
ALPHA-TYPE AND LOST A THREE DEGREE LONG FILAMENT BY 25/1103Z.
REGION 4639 (S07E26) REMAINED A SMALL BETA-TYPE. NO NEW REGION
WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z:
GEOMAGNETIC ACTIVITY WAS QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE ACTIVE TO UNSETTLED. BRIEF MINOR STORM LEVELS
ARE POSSIBLE AT HIGH LATITUDES THE FIRST AND SECOND DAYS (26-27
MAR) DUE TO THE TRIO OF DISAPPEARING FILAMENTS OF 21 MAR. ICE
SATELLITE DATA INDICATES A DISAPPEARING FILAMENT SIGNATURE FROM
22-25 MAR AND THE CONCLUSION IS THAT MOST OF THE DISAPPEARING
FILAMENT MATTER WAS EJECTED AHEAD OF EARTH'S ECLIPTICAL PLANE
POSITION AND THAT VERY LITTLE OF THE MATERIAL WILL IMPACT OUR
MAGNETOSPHERE. THE OUTLOOK IS FOR UNSETTLED TO ACTIVE
CONDITIONS 29-31 MAR, WITH AN INCREASE TO ACTIVE TO MINOR STORM
LEVELS 1 APR DUE TO EXPECTED RECURRENCE OF A POSITIVE EXTENSION
OF THE SOUTHERN POLAR CORONAL HOLE CROWN'S HIGH-SPEED, LOW
DENSITY STREAM.

III. EVENT PROBABILITIES 26 MAR-28 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 MAR 079

PREDICTED 26 MAR-28 MAR 080/081/081

90 DAY MEAN 25 MAR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 MAR 005/009

ESTIMATED AFR/AP 25 MAR 009/015

PREDICTED AFR/AP 26 MAR-28 MAR 016/015-015/015-012/015

SOLTERWARN

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