

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 RECURRANCE 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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