

HFUS3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 059

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4629 (N04W47) CONTINUES ITS SLOW DECAY AND IS NOW AN HSX IN WHITE LIGHT CLASSIFICATION AND AN ALPHA MAGNETIC CONFIGURATION. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4629 IS NOT EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY. NO RETURNING REGIONS ARE EXPECTED TO PRODUCE SIGNIFICANT ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: GEOMAGNETIC FIELD WAS AT MAJOR STORM LEVELS. FOLLOWING A SUDDEN STORM COMMENCEMENT AT 27/2127Z FEB, MAJOR/SEVERE STORM LEVELS OCCURRED CONTINUOUSLY AT HIGH LATITUDES THROUGH 1930Z. MAJOR STORM LEVELS ALSO OCCURRED AT MID-LATITUDES DURING THE FIRST HALF OF THE PERIOD WITH AN ISOLATED MINOR STORM LEVEL NEAR THE MID-PERIOD. IT TAPERED TO ACTIVE LEVELS IN THE SECOND HALF OF THE PERIOD. THIS STORM WAS PROBABLY DUE TO A 4 DEGREE LONG DISAPPEARING FILAMENT NEAR N12E28 23/1301Z FEB AS INDICATED BY ICE DATA. NO SIGNIFICANT FLARES WERE OBSERVED SINCE 20 FEB.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE TO UNSETTLED. MINOR STORM LEVELS ARE POSSIBLE IN THE NIGHTTIME SECTORS.

III. EVENT PROBABILITIES 01 MAR-03 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 FEB 071

PREDICTED 01 MAR-03 MAR 071/071/070

90 DAY MEAN 28 FEB 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 FEB 016/016

ESTIMATED AFR/AP 28 FEB 055/075

PREDICTED AFR/AP 01 MAR-03 MAR 020/025-010/015-014/015

SOLTERWARN

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