

HFUS3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 058

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4629 (N04W33) CONTINUED ITS VERY SLOW DECAY. IT DECREASED TO AN ALPHA-TYPE: AN HAX IN WHITE LIGHT CLASSIFICATION WITH ONLY TWO SPOTS, AN EXTENT OF TWO DEGREES, AND AN AREA OF 40 MILLIONTHS. NO NEW REGION WAS ASSIGNED. A 45 DEGREE LONG FILAMENT DISAPPEARED FROM S42W10 (CENTROID POINT) BETWEEN 27/0900Z AND 1640Z. THIS GENERALLY EAST-WEST FILAMENT REMAINED VISIBLE ONLY AT THE EXTREME EAST AND WEST TIPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. NO RETURNING REGION PROVIDES SIGNIFICANT ACTIVITY POTENTIAL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: GEOMAGNETIC ACTIVITY WAS QUIET-TO-UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED. THE OUTLOOK IS EXPECTED TO BE UNSETTLED 3 MAR, WITH ACTIVE TO MINOR STORM LEVELS 04-07 MAR DUE TO RECURRENT CARRINGTON LONGITUDES WITH A CROSS-EQUATOR CORONAL HOLE EXTENSION FROM THE SOUTH POLAR CROWN.

III. EVENT PROBABILITIES 28 FEB-02 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 FEB 070

PREDICTED 28 FEB-02 MAR 070/070/070

90 DAY MEAN 27 FEB 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 FEB 004/008

ESTIMATED AFR/AP 27 FEB 006/009

PREDICTED AFR/AP 28 FEB-02 MAR 011/015-010/015-007/010

SOLTERWARN

BT