

HFUS3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 054

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100Z TO 23/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4629 (N03E25) IS THE ONLY REGION WITH SPOTS TODAY. CURRENTLY IT IS A C40 OPTICAL CLASS AND BETA-TYPE MAGNETIC CONFIGURATION. A SMALL FILAMENT LOCATED N12E28 DISAPPEARED AROUND 23/1301Z. THE FILAMENTS ORIENTATION WAS N-S LOCATED JUST NORTH OF THE LEADER SPOT OF REGION 4629.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE LEVELS THROUGH THE FORECAST PERIOD. ISOLATED MINOR STORM LEVELS ARE POSSIBLE THE SECOND AND THIRD DAY (25-26 FEB) OF THE FORECAST, ESPECIALLY AT HIGH LATITUDES. THIS DISTURBANCE IS BASED ON POSSIBLE LINGERING EFFECTS FROM A DISAPPEARING FILAMENT ON 17 FEB, A LARGE CORONAL HOLE INFERRED TO HAVE PASSED CENTRAL MERIDIAN ON 20 FEB, AND RECURRENT PATTERNS.

III. EVENT PROBABILITIES 24 FEB-26 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 FEB 073

PREDICTED 24 FEB-26 FEB 074/074/074

90 DAY MEAN 23 FEB 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 FEB 006/010

ESTIMATED AFR/AP 23 FEB 010/010

PREDICTED AFR/AP 24 FEB-26 FEB 019/020-020/025-015/020

SOLTERWARN

BT