

HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 047

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 FEB 1985

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4626 (S11W25) DECREASED TO A WHITE-LIGHT CLASSIFICATION OF BX0 WITH THREE SPOTS. REGIONS 4623 (S07W88) AND 4625 (N01W44) AND 4627 (S07W09) WERE ALL SEEN ONLY AS SCATTERED, FAINT PLAGE. A FIVE DEGREE LONG FILAMENT DISAPPEARED FROM S21E08 AT 15/2103Z BUT REFORMED LATER. THIS WAS PART OF A 17 DEGREE LONG FILAMENT UNDERGOING FADING AND FRAGMENTATION AT END-OF-PERIOD. ITS CENTROID POINT WAS SE OF REGION 4626. ANOTHER THREE DEGREE LONG FILAMENT DISAPPEARED FROM S06E06 (REGION 4627) AT 16/0155Z.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. RETURNING REGION 4622 (S14, CAR-300) IS EXPECTED TO RETURN AT 18/1600Z WITHOUT SIGNIFICANT ACTIVITY POTENTIAL.

II A. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: GEOMAGNETIC ACTIVITY WAS UNSETTLED. MINOR STORM LEVELS OCCURRED AT HIGH LATITUDES AFTER 16/1500Z.

II B. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT UNSETTLED-TO-ACTIVE LEVELS. THIS GRADUAL INCREASE IS BASED UPON SLIGHTLY INCREASING ACTIVITY LEVELS OF UPCOMING RECURRENT CARRINGTON LONGITUDES AND SEVERAL MINOR DISAPPEARING FILAMENTS OF 12-16 FEB.

III. EVENT PROBABILITIES 17 FEB-19 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 FEB 072

PREDICTED 17 FEB-19 FEB 072/072/071

90 DAY MEAN 16 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 FEB 010/010

ESTIMATED AFR/AP 16 FEB 008/010

PREDICTED AFR/AP 17 FEB-19 FEB 012/015-014/015-016/020