

HFUS3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 041

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100Z TO 10/2100Z: SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL. ONLY TWO SPOTTED REGIONS ARE CURRENTLY VISIBLE, NAMELY, REGION 4624 (N10W31) AND REGION 4626 (S12E53). BOTH OF THESE REGIONS ARE SMALL AND SIMPLE. A SMALL FLARE WAS REPORTED IN REGION 4626 AT 1641UT. THIS WAS THE ONLY FLARE EVENT REPORTED TODAY. LATE ON 9 FEB SMALL SPOTS APPEARED NEAR N03 L133 BUT HAVE SINCE DISAPPEARED. LIMBS HAVE BEEN QUIET EXCEPT FOR SOME MINOR PROMINENCE ACTIVITY ON THE WEST LIMB NEAR S20.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. CURRENT REGIONS DO NOT APPEAR CAPABLE OF SIGNIFICANT ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. THIS ACTIVITY IS BEING ATTRIBUTED TO THE PASSAGE OF THE TRAILING EDGE OF THE CORONAL HOLE AND THE PASSAGE OF A SOLAR SECTOR BOUNDARY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BECOME BASICALLY UNSETTLED OVER THE NEXT 24 HOURS AND QUIET THROUGH THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 11 FEB-13 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 FEB 076

PREDICTED 11 FEB-13 FEB 075/075/075

90 DAY MEAN 10 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 FEB 017/024

ESTIMATED AFR/AP 10 FEB 015/028

PREDICTED AFR/AP 11 FEB-13 FEB 010/015-005/010-005/010

SOLTERWARN

BT