

HFUS3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 037

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THERE ARE CURRENTLY ONLY TWO SPOTTED REGIONS ON THE DISK. REGION 4621 (N16W82) APPEARS AS AN HSX REGION, HOWEVER ITS PROXIMITY TO THE LIMB MAKES ACCURATE ANALYSIS DIFFICULT. REGION 4623 (S07E41) IS NOW A SIMPLE AXX GROUP. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. OLD REGION 4617 (S10 CAR72) IS DUE TO RETURN ON THE 8TH AND MAY HAVE A VERY SLIGHT CHANCE OF PRODUCING MODERATE ACTIVITY IF IT HAS RETAINED ITS COMPLEXITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS AT MID LATITUDES AND AT MINOR TO MAJOR STORM LEVELS AT HIGH LATITUDES. THIS ACTIVITY IS BELIEVED TO BE RELATED TO THE CORONAL HOLE THAT CROSSED CENTRAL MERIDIAN ON THE 3RD OF FEB.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BEGIN THE FORECAST PERIOD AT HIGH ACTIVE LEVELS. THE CORONAL HOLE RELATED ACTIVITY IS EXPECTED TO SUBSIDE DURING THE 7TH OF FEBRUARY, AND LOWER ACTIVE LEVELS ARE EXPECTED ON THE 8TH AND 9TH.

III. EVENT PROBABILITIES 07 FEB-09 FEB

CLASS M 01/01/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 FEB 073

PREDICTED 07 FEB-09 FEB 073/073/075

90 DAY MEAN 06 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 FEB 023/020

ESTIMATED AFR/AP 06 FEB 030/035

PREDICTED AFR/AP 07 FEB-09 FEB 020/020-015/020-015/015

SOLTERWARN

BT