

HFUS3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 033

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW. THE ONLY EVENT WAS A SUB FAINT FLARE FROM REGION 4621 (N17W29) THAT BEGAN BEFORE 02/1323Z AND ENDED AT 1346Z. THERE WAS A SLIGHT XRAY ENHANCEMENT ACCOMPANIED THIS FLARE BUT THE XRAYS REMAINED BELOW THE B1 LEVEL. REGION 4621 IS CURRENTLY THE LARGEST REGION ON THE DISK. IT IS OPTICALLY A DAD REGION WITH A WHITE LIGHT AREA OF 110 MILLIONTHS AND A BETA MAGNETIC CONFIGURATION. IT HAS EXHIBITED AN ARCHED FILAMENT SYSTEM FOR MOST OF THE PERIOD. REGION 4622 (S14W63) IS A SMALL BXO GROUP THAT HAS ALSO HAD ARCHED FILAMENT SYSTEMS MUCH OF THE PERIOD. THE LAST AND SMALLEST REGION IS 4620 (S14W28) WHICH WAS SPOTLESS MOST OF THE PERIOD BUT IS NOW AN AXB GROUP. NO NEW REGIONS WERE NUMBERED TODAY.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BEGIN THE PERIOD AT UNSETTLED LEVELS AND RISE TO HIGH ACTIVE OR LOW MINOR STORM LEVELS BY THE END OF THE THIRD DAY. THIS RECURRENT ACTIVITY IS EXPECTED DUE TO A CORONAL HOLE THAT WILL BE CROSSING CENTRAL MERRIDIAN LATE TODAY OR EARLY ON 3 FEB.

III. EVENT PROBABILITIES 03 FEB-05 FEB:

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 FEB 076

PREDICTED 03 FEB-05 FEB 076/076/077

90 DAY MEAN 02 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 FEB 012/017

ESTIMATED AFR/AP 02 FEB 012/015

PREDICTED AFR/AP 03 FEB-05 FEB 010/015-018/020-025/030

SOLTERWARN

BT