

HFUS3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 034

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS REMAINED VERY LOW. THE LARGEST EVENT THIS PERIOD WAS A C1/SN XRAY/OPTICAL CLASS FLARE WITH XRAY MAXIMUM TIME OF 03/0426Z. THIS FLARE WAS FROM REGION 4620 (S15W40) WHICH HAS GROWN FROM AN AXX TO A SMALL CSO GROUP SINCE YESTERDAY IN WHITE LIGHT. IT HAS HAD A STRONG ARCHED FILAMENT SYSTEM FOR MUCH OF THE PERIOD. REGION 4621 (N17W43) IS THE ONLY OTHER SPOTTED REGION ON THE DISK AS A SMALL DSO GROUP. IT HAS HAD SF FLARES AND AN ARCHED FILAMENT SYSTEM THIS PERIOD. NO NEW GROUPS WERE NUMBERED TODAY.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED WITH AN ACTIVE PERIOD FROM 1300 TO 1800Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT LOW ACTIVE LEVELS ON THE FIRST DAY OF THE FORECAST AND IS EXPECTED TO BE AT HIGH ACTIVE LEVELS BY THE THIRD DAY OF THE PERIOD. THIS ACTIVITY IS EXPECTED IN RESPONSE TO A CORONAL HOLE THAT CROSSED CENTRAL MERIDIAN BY 3 FEB.

III. EVENT PROBABILITIES 04 FEB-06 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 FEB 076

PREDICTED 04 FEB-06 FEB 075/075/075

90 DAY MEAN 03 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 FEB 010/011

ESTIMATED AFR/AP 03 FEB 008/015

PREDICTED AFR/AP 04 FEB-06 FEB 015/020-020/025-025/025

SOLTERWARN

BT