

HFUS3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 052

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100 TO 21/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4628 (S09W38) SHOWED A BXO OPTICAL CLASSIFICATION WITH BETA MAGNETIC CHARACTERISTICS AND CONTINUED ITS QUIET TRANSIT OF THE DISK. REGION 4629 (N03E52) WAS OBSERVED AS A DHI CLASS AND BETA-TYPE, WITH AN ARCHED FILAMENT SYSTEM, ACTIVE DARK FILAMENT, AND OCCASIONAL POINT BRIGHTENINGS. A B1/F X-RAY/OPTICAL CLASS FLARE, ASSOCIATED WITH REGION 4629, OCCURRED EARLY IN THE PERIOD. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4629 HAS THE CAPABILITY OF PRODUCING LOW LEVEL X-RAYS. NO RETURNING REGIONS ARE EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: GEOMAGNETIC ACTIVITY WAS QUIET TO UNSETTLED WITH ISOLATED PERIODS OF ACTIVE TO MINOR STORM LEVELS AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED ON THE FIRST DAY OF THE PERIOD. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED DURING THE REST OF THE PERIOD. THE INCREASE IN ACTIVITY IS FORECAST BASED ON RECURRENT PATTERNS.

III. EVENT PROBABILITIES 22 FEB-24 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 FEB 076

PREDICTED 22 FEB-24 FEB 077/078/078

90 DAY MEAN 21 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 FEB 008/018

ESTIMATED AFR/AP 21 FEB 010/011

PREDICTED AFR/AP 22 FEB-24 FEB 010/010-014/015-019/020

SOLTERWARN

BT