

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 329

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY HAS REMAINED VERY LOW. THERE ARE CURRENTLY THREE SPOTTED REGIONS ON THE DISK. REGION 4597 (N18W72) IS A SMALL CAO GROUP. REGION 4598 (S12E19) IS AN EHO GROUP WITH AN AREA OF APPROX 270 MILLIONTHS. DURING THIS PERIOD IT HAS EXHIBITED AN ARCHED FILAMENT SYSTEM AND HAS HAD A SMALL XRAY CLASS B SUB FAINT OPTICAL FLARE. REGION 4600 (S11E40) WHICH WAS NUMBERED TODAY IS A SMALL CRO GROUP THAT APPEARS TO BE GROWING RAPIDLY. IT HAS EXHIBITED AN ARCHED FILAMENT SYSTEM AND HAS HAD SEVERAL SMALL XRAY CLASS B AND OPTICALLY SUB FAINT FLARES. AN ERUPTIVE PROMINENCE WAS REPORTED AT N18W90 AT APPROX 24/1000Z EXTENDING .16 SOLAR RADIUS FROM THE LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. WHILE M CLASS XRAY FLARES ARE NOT EXPECTED REGIONS 4598 AND 4600 ARE CAPABLE OF PRODUCING ISOLATED C CLASS XRAY EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED FOR THE FIRST DAY OF THE FORECAST AND IS EXPECTED TO BECOME ACTIVE BY THE THIRD DAY. THIS INCREASE IN ACTIVITY IS FORECAST DUE TO A FILAMENT THAT DISAPPEARED ON THE 23RD FROM APPROXIMATELY N06E03.

III. EVENT PROBABILITIES 25 NOV-27 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 NOV 083

PREDICTED 25 NOV-27 NOV 084/085/086

90 DAY MEAN 24 NOV 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 NOV 011/009

ESTIMATED AFR/AP 24 NOV 009/010

PREDICTED AFR/AP 25 NOV-27 NOV 010/010-010/015-015/015

SOLTERWARN

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