

HFU63 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 363

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4611 (S10W00) HAS A B-TYPE SPOT GROUP WITH A SIMPLE BETA MAGNETIC CONFIGURATION, AND IS CURRENTLY THE ONLY SPOTTED REGION ON THE DISK.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS WITH ISOLATED PERIODS AT MINOR STORM LEVELS AT ALL LATITUDES. THIS ACTIVITY IS ASSUMED TO BE ASSOCIATED WITH A CORONAL HOLE WHICH IS ESTIMATED TO BE CENTERED APPROXIMATELY 20 DEGREES NORTH AND ABOUT THREE AND ONE HALF TO FOUR DAYS PAST CENTRAL MERIDIAN.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS AT ALL LATITUDES WITH OCCASIONAL PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES. THIS ACTIVITY IS EXPECTED BASED ON THE RECURRENT NATURE OF GEOMAGNETIC FIELD ACTIVITY WHICH HAS BEEN EXHIBITED OVER THE LAST THREE ROTATIONS.

III. EVENT PROBABILITIES 29 DEC-31 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 DEC 075

PREDICTED 29 DEC-31 DEC 075/075/074

90 DAY MEAN 28 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 DEC 015/019

ESTIMATED AFR/AP 28 DEC 019/029

PREDICTED AFR/AP 29 DEC-31 DEC 017/025-015/025-019/025

SOLTERWARN

BT