

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 306

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 NOV 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW THIS PERIOD. ACTIVITY HAS BEEN LIMITED TO ONE C TYPE X-RAY FLARE WHOSE SOURCE IS UNKNOWN. REGIONS 4350 (S19W47) AND 4351 (S18E04) ARE UNIMPRESSIVE. REGION 4352 (N16E70) IS A H-TYPE SPOT GROUP AND APPEARS STABLE. ONE NEW REGION WAS NUMBERED THIS PERIOD, 4353 (S15E00), A C-TYPE SPOT GROUP. LOOPS WERE SEEN IN THIS REGION AS IT ROTATED ONTO THE DISK, MARKING IT AS THE MOST LIKELY FOR SIGNIFICANT FLARE ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW WITH ISOLATED M CLASS X-RAY FLARES POSSIBLE FROM REGION 4353.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS AT MIDLATITUDES AND AT MINOR STORM LEVELS AT HIGH LATITUDES. THIS ACTIVITY IS DUE TO AN EARLY ARRIVING CORONAL HOLE STREAM.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD CONTINUE AT ACTIVE LEVELS DUE TO CORONAL HOLE STREAMS. LEVELS MAY INCREASE ON THE SECOND AND THIRD DAYS OF THE FORECAST PERIOD DUE TO THE INFLUENCE OF THE FILAMENT WHICH DISAPPEARED ON 31 OCTOBER.

III. EVENT PROBABILITIES 03 NOV-05 NOV

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 NOV 099

PREDICTED 03 NOV-05 NOV 110/112/112

90 DAY MEAN 02 NOV 114

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 NOV 022/019

ESTIMATED AFR/AP 02 NOV 022/038

PREDICTED AFR/AP 03 NOV-05 NOV 018/030-030/025-025/025

SOLTERWARN

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