

HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 305

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 NOV 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100
TO 01/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DUE TO A M3 X-RAY
FLARE WHICH REACHED MAXIMUM AT 1133 UT. THIS FLARE ORIGINATED
BEHIND THE EAST LIMB, A PREVIEW OF POSSIBLE INCREASED ACTIVITY
AS THE ACTIVE LONGITUDES DISCUSSED YESTERDAY ROTATE ONTO THE
DISK. REGIONS 4350 (S19W47) AND 4351 (S18E21) HAVE BEEN
UNPRODUCTIVE THIS PERIOD. ONE NEW REGION WAS NUMBERED THIS
PERIOD, 4352 (N16E84) A H-TYPE SPOT GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY
LOW BUT ISOLATED M CLASS X-RAY FLARES ARE POSSIBLE AS THE
ACTIVE CARRINGTON LONGITUDES 85-65 ROTATE ONTO THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD
SHOULD BE UNSETTLED THE FIRST DAY OF THE FORECAST PERIOD,
FOLLOWED BY ACTIVE TO MINOR STORM CONDITIONS THE LAST TWO DAYS
OF THE PERIOD. THIS INCREASE IN ACTIVITY IS DUE TO THE EXPECTED
IMPACT OF A HIGH SPEED CORONAL HOLE STREAM AND THE POSSIBLE
RESPONSE TO A SOLAR FILAMENT WHICH DISAPPEARED YESTERDAY AT
APPROXIMATELY 1600UT. IT WAS LOCATED AT S24E35.

III. EVENT PROBABILITIES 02 NOV-04 NOV

CLASS M 10/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 NOV 102

PREDICTED 02 NOV-04 NOV 112/117/117

90 DAY MEAN 01 NOV 114

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 OCT 012/012

ESTIMATED AFR/AP 01 NOV 023/016

PREDICTED AFR/AP 02 NOV-04 NOV 014/015-018/020-030/025

SOLTERWARN

BT