

HFUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 295

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100
TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. WITH THE ADDITION
OF NEW REGION 4346 (N01W22), THE SOLAR DISK NOW HAS THREE
SINGLE A-TYPE SPOT GROUPS. A FILAMENT OF 22 DEGREES EXTENT AND
CENTERED NEAR N27W45 AT 22/0000Z ERUPTED BETWEEN THIS TIME AND
1300Z. HOWEVER, IT LIES NORTH OF THE CORONAL HOLE STRUCTURE;
THEREFORE THE FILAMENT PLASMA IS EXPECTED TO BE DEFLECTED OUT
OF THE ECLIPTIC PLANE AND NOT IMPACT EARTH.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN VARIABLE - FROM UNSETTLED
CONDITIONS TO SHORT PERIODS AT MINOR STORM LEVEL.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO
REMAIN VARIABLE THROUGH THE FORECAST PERIOD. GENERALLY ACTIVE
CONDITIONS WITH SHORT PERIODS AT STORM LEVEL ARE EXPECTED FOR
23 OCTOBER FOLLOWED BY A DIMINUTION TO UNSETTLED TO ACTIVE
CONDITIONS FOR 24-25 OCTOBER.

III. EVENT PROBABILITIES 23 OCT-25 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 OCT 088

PREDICTED 23 OCT-25 OCT 087/086/085

90 DAY MEAN 22 OCT 119

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 OCT 014/014

ESTIMATED AFR/AP 22 OCT 018/025

PREDICTED AFR/AP 23 OCT-25 OCT 020/025-013/015-015/015

SOLTERWARN

BT