

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