

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 290

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100 TO 17/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL FOR THE PAST 24 HOURS. REGION 4335 (N21W66) HAS PRODUCED SEVERAL SUB-BRIGHT FLARES AND CLASS "C" XRAY EVENTS BUT NOTHING GREATER THAN C7 AT 17/0026UT. REGION 4340 (S05W05) ALSO PRODUCED A ~~ZERO~~-BRIGHT FLARE AT 17/1659UT. ONE NEW REGION 4343 (N02E15) WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO BE AT A LOW LEVEL THROUGH THE FORECAST PERIOD. A SLIGHT CHANCE OF MODERATE LEVEL ACTIVITY IS POSSIBLE DUE TO REGION 4335.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC ACTIVITY HAS BEEN AT MINOR TO MAJOR STORM LEVELS BEGINNING AT 17/0900UT. THIS ACTIVITY IS ATTRIBUTED TO A DISAPPEARING FILAMENT OCCURRENCE AT APPROXIMATELY 1600UT ON THE 14TH OF OCTOBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT MINOR/MAJOR LEVELS THROUGH 18/0900UT. THE ACTIVITY IS EXPECTED TO DECREASE TO MINOR STORM LEVELS AFTER 18/0900UT AND FURTHER DECREASE TO ACTIVE LEVELS ON THE 19TH OF OCTOBER. THE GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT THE UNSETTLED LEVEL FOR THE 20TH OF OCTOBER.

III. EVENT PROBABILITIES 18 OCT-20 OCT

CLASS M 30/25/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 OCT 114

PREDICTED 18 OCT-20 OCT 114/112/112

90 DAY MEAN 17 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 OCT 015/016

ESTIMATED AFR/AP 17 OCT 031/030

PREDICTED AFR/AP 18 OCT-20 OCT 025/025-015/015-010/015

SOLTERWARN

BT