

HFUS 3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 292

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 19 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100
TO 19/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL FOR
THE PAST 24 HOUR PERIOD. REGION 4335 (N21 W90) PRODUCED AN
M1/0F EVENT AT 19/1759UT AND AN APPARENT M4 X-RAY EVENT AT
19/2016UT. ONE NEW REGION WAS ASSIGNED DURING THIS PERIOD.
REGION 4344 (S22 E77) HAD A SUB-FAINT FLARE AT 19/1220UT. NO
SPOT REPORTS WERE CONFIRMED BY OBSERVATORIES FOR THIS NEW
REGION.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO
BE AT A LOW LEVEL THROUGH-OUT THE FORECAST PERIOD. A SLIGHT
CHANCE OF MODERATE LEVEL ACTIVITY IS POSSIBLE DUE TO REGION
4335 UNTIL THE 22ND OF OCTOBER.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z:
THE GEOMAGNETIC ACTIVITY HAS BEEN AT MINOR STORM TO ACTIVE
LEVELS FOR THE FIRST 12 HOURS BEGINNING AT 18/2100UT, AND
DECREASED TO AN ACTIVE LEVEL FOR THE LAST 12 HOURS OF THE
PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS FOR THE FIRST
ONE-HALF DAY OF THE FORECAST PERIOD. THIS ACTIVITY IS EXPECTED
TO DECREASE TO UNSETTLED LEVEL AFTER 20/1200UT AND REMAIN AT
THIS UNSETTLED LEVEL THROUGH THE 21ST OF OCTOBER. THE
GEOMAGNETIC ACTIVITY IS EXPECTED TO INCREASE TO ACTIVE/MINOR
STORM LEVELS LATE ON THE 22ND OF OCTOBER DUE TO RECURRENCE.

III. EVENT PROBABILITIES 20 OCT-22 OCT

CLASS M 20/15/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCT 106
PREDICTED 20 OCT-22 OCT 105/105/105
90 DAY MEAN 19 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 OCT 031/045
ESTIMATED AFR/AP 19 OCT 009/020
PREDICTED AFR/AP 20 OCT-22 OCT 010/015-011/015-018/025
SOLTERWARN

BT