

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

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