

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 072

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 12 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS REMAINED LOW THIS PERIOD. THREE C CLASS EVENTS WERE RECORDED THE LARGEST WAS FROM REGION 4433 (S08W20) A C7/1B AT 1751UT MINOR RADIO WAS OBSERVED WITH THIS EVENT. REGION 4431 PRODUCED TWO C EVENTS A C1/1B AT 1636UT AND A C2/1N AT 1828UT. THE EVENT AT 1636UT CAUSED A SMALL FILAMENT TO DISAPPEAR THIS EVENT WAS A SLOW RISER AND NO RADIO WAS REPORTED. REGION 4433 HAS EXHIBITED RAPID GROWTH DURING THE PAST 24 HOURS BUT REMAINS SIMPLE MAGNETICALLY. NEW REGION TODAY HAS BEEN NUMBERED 4437 (S21E75) IT APPEARS TO BE A SIMPLE A TYPE HOWEVER THERE MAY BE MORE TO ROTATE OVER THE LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THIS FORECAST PERIOD. REGION 4433 MAY, IF RAPID GROWTH CONTINUES, PRODUCE A SMALL M CLASS EVENT NEAR THE END OF THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT GENERALLY UNSETTLED LEVELS DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED LEVELS DURING THE NEXT 24 HOURS WITH GENERALLY ACTIVE CONDITIONS FOR THE LAST 48 HOURS OF THIS FORECAST PERIOD. SHORT PEIODS OF MINOR STORM CONDITIONS MAY OCCUR ON THE LAST HALF OF THE THIRD DAY DUE TO THE FILAMENT WHICH DISAPPEARED TODAY OUT OF REGION 4431.

III. EVENT PROBABILITIES 13 MAR-15 MAR

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 MAR 101

PREDICTED 13 MAR-15 MAR 105/108/108

30 DAY MEAN 12 MAR 118

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 MAR 007/012

ESTIMATED AFR/AP 12 MAR 010/015

PREDICTED AFR/AP 13 MAR-15 MAR 012/020-015/015-015/025

SOLTERWARN

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