

HFUS 3 BOU 132200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 317
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 13 NOV 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100
TO 13/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL FOR THE
PAST 24 HOUR PERIOD. TWO NEW REGIONS WERE ASSIGNED. REGION
4360 (S13E10) WAS AN RAPIDLY GROWING BETA-TYPE WITH DARK
SURGES, POINT BRIGHTENINGS, AND ARCH FILAMENT SYSTEMS. REGION
4361 (S14E46) WAS A ALPHA-TYPE WITH ARCH FILAMENT SYSTEMS .

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO
BE AT A LOW LEVEL THROUGH-OUT THE FORECAST PERIOD. A VERY
SLIGHT CHANCE OF MODERATE LEVEL ACTIVITY IS POSSIBLE DUE TO
REGION 4360'S GROWING POTENTIAL. ONE REPORT OF WEAK BETA-GAMMA
CONFIGURATION PUSHES THIS GROUP INTO THE CATAGORY OF "SLIGHT"
CHANCE OF MODERATE LEVEL ACTIVITY BY THE THIRD DAY (16TH NOV).

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z:
THE GEOMAGNETIC ACTIVITY HAS BEEN AT MAJOR TO MINOR STORM
LEVELS FOR THE PAST 24 HOUR PERIOD. THE COLLEGE SITE CONTINUED
BRIEF MAJOR STORM OBSERVATIONS UNTIL 1800UT IN THE PERIOD WHILE
THE REMAINDER OF STATIONS DECREASED TO MINOR STORM/ACTIVE
LEVELS. THIS DISTURBANCE WAS ATTRIBUTED TO RECURRENT CORONAL
HOLE ACTIVITY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE AT MINOR STORM TO ACTIVE LEVELS FOR THE FIRST
DAY (14TH NOV) AS THE LAST OF THE RECURRENT CORONAL HOLE EFFECT
SUBSIDES. BRIEF PERIODS OF MAJOR STORM LEVEL READINGS MAY
STILL BE OBSERVED AT HIGH LATITUDE SITES DURING THE NIGHT-TIME
PERIOD OF THE 14TH. THE GEOMAGNETIC ACTIVITY IS EXPECTED TO
DROP TO ACTIVE/UNSETTLED LEVELS ON THE SECOND DAY (15TH), WITH
A CONTINUING DROP TO QUIET/UNSETTLED LEVELS BY THE 3RD DAY
(16TH NOV).

~~III.---EVENT PROBABILITIES 14 NOV-16 NOV---~~

CLASS M 05/10/15
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 NOV 094
PREDICTED 14 NOV-16 NOV 091/091/090
90 DAY MEAN 13 NOV 109

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 NOV 030/045
ESTIMATED AFR/AP 13 NOV 024/025
PREDICTED AFR/AP 14 NOV-16 NOV 022/025-014/015-006/015
SOLTERWARN

BT