

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

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