

HFUS3 BOU 102200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 345

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 10 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100
TO 10/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW THE PAST 24 HOURS.
TWO NEW REGIONS WERE NUMBERED TODAY AS REGION 4607(S12E09) AND
REGION 4608(N17E79). REGION 4607 HAS A WELL DEFINED ARCH
FILAMENT SYSTEM IN PROGRESS AND SIGNIFICANT FLUCTUATIONS IN
PLAGE BRIGHTENINGS HAVE ALSO BEEN OCCURRING. REGION 4608 HAD
SURGING MATERIAL OUT TO .10 RADIUS VECTOR AT 09/2300UT. A NEW
REGION WAS NUMBERED LATE YESTERDAY AS REGION 4606(S15W08)
HOWEVER IT HAS UNDERGONE SOME DECAY AND HAS NO SPOTS TODAY AND
REMAINS AS A PLAGE REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN VERY LOW DURING THE FORECAST PERIOD. HOWEVER WITH THE
WELL DEFINED ARCH FILAMENT SYSTEM AND INHANCED FLUCTUATIONS FROM
REGION 4607 AND THE SURGING FROM REGION 4608 POSSIBLE ENERGETIC
ACTIVITY COULD OCCUR IF RAPID CHANGE TAKES PLACE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED WITH ACTIVE
CONDITIONS AT THE HIGHER LATITUDES THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO REMAIN AT UNSETTLED TO ACTIVE LEVELS REACHING MINOR
STORM CONDITIONS ON 12 DECEMBER AND MAJOR STORM CONDITIONS ON
13 DECEMBER. THIS INCREASE IN ACTIVITY IS EXPECTED DUE TO
RECURRENT HIGH SPEED STREAM FROM A SOUTHERN CORONAL HOLE.

III. EVENT PROBABILITIES 11 DEC-13 DEC

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

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 DEC 078
PREDICTED 11 DEC-13 DEC 080/082/082
90 DAY MEAN 10 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 DEC 004/006
ESTIMATED AFR/AP 10 DEC 012/010
PREDICTED AFR/AP 11 DEC-13 DEC 015/020-035/040-070/070

SOLTERWARN

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