

HFJG3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 349

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY,
ISSUED 2200Z 14 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100
TO 14/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4607 (S11W45)
PRODUCED A B1/0N EVENT AT 14/1528Z. IT CONTINUED DECAYING IN
WHITE-LIGHT AREA BUT RETAINED ITS EIGHT SPOTS. IT WAS STILL A
BETA-TYPE MAGNETICALLY. REGION 4608 (N18E28) REDEVELOPED BOTH
RUDIMENTARY PENUMBRAE AND ANOTHER SPOT IN WHITE-LIGHT. IT WAS
ALSO A BETA-TYPE. BOTH REGIONS SUPPORTED ACTIVE DARK AND ARCHED
FILAMENTS BRIEFLY DURING THE PERIOD. NO NEW REGION WAS
ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW. RETURNING REGION 4598 (S12. CAR-056) PRODUCED TWO
M-LEVEL X-RAY EVENTS AND FOUR IMPORTANCE 1 OPTICAL FLARES
DURING THE ITS LAST APPEARANCE. IT IS PREDICTED TO RETURN AT
17/0500Z. THIS REGION PROVIDES THE POTENTIAL FOR SIGNIFICANT
ACTIVITY AS IT WAS A E60 WHITE-LIGHT CLASSIFICATION ON THE LAST
DAY (2 DEC) OBSERVED AT W83.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z:
GEOMAGNETIC ACTIVITY WAS ACTIVE TO UNSETTLED. MINOR STORM
LEVELS AFFECTED THE HIGH LATITUDES AT 13/2230Z AND
14/1630-1930Z. THE FORECAST CORONAL HOLE STREAM-INDUCED STORM
MANIFESTED ITSELF AS THE SINGULAR PULSE AT 13/0600Z AT
MID-LATITUDES WITHOUT FURTHER DISTURBANCES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE UNSETTLED TO ACTIVE.

III. EVENT PROBABILITIES 15 DEC-17 DEC

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

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 DEC 077
PREDICTED 15 DEC-17 DEC 076/076/077
90 DAY MEAN 14 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 DEC 023/024
ESTIMATED AFR/AP 14 DEC 010/015
PREDICTED AFR/AP 15 DEC-17 DEC 014/020-012/020-010/020

SOLTERWARN

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