

BT

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 345

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 11 DEC 1983

JAS

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100
TO 11/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. ALL DISK REGIONS
HAVE DIMINISHED IN STRUCTURE AND DECLINED IN PLAGE INTENSITY.
SMALL PATCHES OF PLAGE ARE ROTATING ON TO THE DISK NEAR SE10
AND SE15. ✓

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW. ✓

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z:
THE GEOMAGNETIC FIELD HAS GENERALLY BEEN ACTIVE. A STRONG
SUBSTORM BETWEEN 1330-1600Z PRODUCED K-VALUES OF SIX AT
BOULDER. ISEE-3 DENSITY VALUES HAVE BEEN ELEVATED. A LARGE
FILAMENT IN THE SE QUADRANT DISAPPEARED BETWEEN 0800-1600Z ON
06 DECEMBER. THIS MAY BE THE SOURCE FOR THE HIGHER THAN
EXPECTED GEOMAGNETIC ACTIVITY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE GENERALLY ACTIVE BUT WITH SHORT PERIODS AT STORM
LEVEL FOR THE NEXT THREE DAYS. THIS WILL BE IN RESPONSE TO A
RECURRENT CORONAL HOLE LOCATED AT NORTH TEN DEGREES. ✓

III. EVENT PROBABILITIES 12 DEC-14 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 DEC 106

PREDICTED 12 DEC-14 DEC 105/104/101

90 DAY MEAN 11 DEC 104

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 DEC 015/022

ESTIMATED AFR/AP 11 DEC 034/030

PREDICTED AFR/AP 12 DEC-14 DEC 018/025-015/020-018/020

SOLTERWARN

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