

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 342

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY. TAS

ISSUED 2200Z 08 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100
TO 08/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL FOR THE
PAST 24 HOUR PERIOD. REGION 4372 (S13E29) PRODUCED A C2/1B
EVENT AT 08/0753UT. THIS REGION DEVELOPED SPOTS IN THE
SOUTH-EAST TRAILER AND EVOLVED INTO A WEAK BETA-GAMMA MAGNETIC
TYPE. ITS AREA DECREASED TO 160 MILLIONTHS BUT SPOT COUNT
CONTINUED TO GROW TO 27. TWO NEW REGIONS WERE ASSIGNED. REGION
4374 (N01E75) WAS A SINGLE SPOT "HSX" WITH 50 MILLIONTHS IN
AREA. REGION 4375 (N12W13) WAS A COMPACT "BX0" BETA TYPE WITH
ARCHED FILAMENT SYSTEM.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO
BE AT A LOW LEVEL THROUGH-OUT THE FORECAST PERIOD. REGION 4372
IS EXPECTED TO CONTINUE TO PROVIDE A SLIGHT POSSIBILITY OF
MODERATE LEVEL ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z:
THE GEOMAGNETIC ACTIVITY HAS BEEN AT MINOR STORM TO ACTIVE
LEVELS FOR THE PAST 24 HOUR PERIOD. THIS WAS ATTRIBUTED TO
RECURRENCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS THROUGH-OUT THE
FIRST AND SECOND DAY (9/10 DEC) OF THE FORECAST PERIOD. BRIEF
PERIODS OF MAJOR STORM LEVEL ACTIVITY IS EXPECTED DURING
NIGHT-TIME PERIODS AT HIGH LATITUDES. A DECREASE TO MAINLY
ACTIVE LEVELS IS EXPECTED FOR THE THIRD DAY (11 DEC). THIS
DISTURBANCE IS ATTRIBUTED TO RECURRENCE.

III. EVENT PROBABILITIES 09 DEC-11 DEC

CLASS M 15/10/05

CLASS X 21/21/21

PROTON 21/21/21

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 DEC 121

PREDICTED 09 DEC-11 DEC 122/299/297

90 DAY MEAN 08 DEC 133

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 DEC 028/028

ESTIMATED AFR/AP 08 DEC 015/215

PREDICTED AFR/AP 09 DEC-11 DEC 025/025-025/025-222/022

SOLTERWARN

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