

SDF NUMBER 364

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY. *HS*
ISSUED 2200Z 30 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100
TO 30/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A VERY LOW LEVEL FOR
THE PAST 24 HOUR PERIOD. NO NEW REGIONS WERE ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO
BE AT A LOW LEVEL OF ACTIVITY THROUGH-OUT THE FORECAST PERIOD.
THIS IS DUE TO RETURNING REGIONS 4376/4372 (S14 CARI4/S12
CARI4). THEY PRODUCED A TOTAL OF 4 OPTICAL FLARES AND 3 CLASS
"M" X-RAY EVENTS DURING THEIR LAST ROTATION. A VERY SLIGHT
CHANCE OF MODERATE LEVEL ACTIVITY IS POSSIBLE. *Save on 29 Dec*

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z:
THE GEOMAGNETIC ACTIVITY HAS BEEN AT ACTIVE TO MINOR STORM
LEVELS DURING THE PAST 24 HOUR PERIOD. MAJOR STORM LEVELS WERE
OBSERVED AT HIGH LATITUDE SITES AFTER 30/2900UT. THIS WAS
ATTRIBUTED TO DISAPPEARING FILIMENTS ON THE 26/27 DEC 83. ✓

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE AT MINOR STORM TO ACTIVE LEVELS FOR THE FIRST
DAY (31DEC), WITH MAJOR STORM LEVELS INDICATED AT HIGH LATITUDE
SITES DURING NIGHT-TIME HOURS. THIS IS A CONTINUATION OF THE
CURRENT DISAPPEARING FILIMENT DISTURBANCE. THE ACTIVITY IS
EXPECTED TO DECREASE TO ACTIVE TO MINOR STORM LEVELS ON THE
SECOND AND THIRD DAYS (1/2 JAN) AS THE DISTURBANCE DECREASES.

III. EVENT PROBABILITIES 31 DEC-02 JAN

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01 ✓

PCAF GREEN

IV. OTTAWA 12.7 CM FLUX

OBSERVED 30 DEC 284 ✓

PREDICTED 31 DEC-02 JAN 286/288/291

90 DAY MEAN 30 DEC 182

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 DEC 012/011

ESTIMATED AFR/AP 30 DEC 031/035

PREDICTED AFR/AP 31 DEC-02 JAN 022/022-015/015-022/025

SOLTERWARN

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