

FUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 267

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 24 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100
TO 24/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL OF
ACTIVITY DURING THE LAST 24 HOUR PERIOD. REGION 4324 HAS SLOWED
ITS GROWTH BUT REMAINED A BETA-GAMMA GROUP. AN ASSOCIATED C1/SN
EVENT OCCURRED AT 23/1630UT. NO NEW REGIONS WERE ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO
BE AT A LOW LEVEL OF ACTIVITY DURING THE FORECAST PERIOD. A
SLIGHT CHANCE OF MODERATE LEVEL ACTIVITY IS EXPECTED DUE TO
REGION 4324'S EMERGENCE IN THE SAME LOCATION WHERE A PREVIOUS
CORONAL HOLE HAD BEEN LOCATED DURING PREVIOUS SOLAR ROTATIONS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z:
THE GEOMAGNETIC ACTIVITY HAS BEEN AT A QUIET TO UNSETTLED LEVEL
DURING THE FIRST HALF OF THE LAST 24 HOUR PERIOD. SINCE
23/0900UT, THE GEOMAGNETIC ACTIVITY HAS INCREASED TO AN
ACTIVE/MINOR STORM LEVEL WITH A MAJOR STORM LEVEL OBSERVED
(K6) AT COLLEGE, AK. AT 23/1800UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS
EXPECTED TO CONTINUE AT ACTIVE/MINOR STORM LEVELS THROUGH-OUT
THE FIRST 2 DAYS OF THE FORECAST PERIOD. FREQUENT PERIODS OF
MAJOR STORM LEVEL ACTIVITY IS EXPECTED AT HIGH LATITUDE SITES.
THE SLOW DECREASE OF GEOMAGNETIC ACTIVITY IS EXPECTED TO START
LATE ON THE THIRD DAY (SEP 27), WITH ACTIVE LEVELS DOMINATING.

III. EVENT PROBABILITIES 25 SEP-27 SEP

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEP 111

PREDICTED 25 SEP-27 SEP 112/113/114

90 DAY MEAN 24 SEP 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 SEP 003/007

ESTIMATED AFR/AP 24 SEP 010/012

PREDICTED AFR/AP 25 SEP-27 SEP 020/020-025/025-020/020

SOLTERWARN

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