

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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