

FUS 3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 264

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 21 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100
TO 21/2100Z: THE SOLAR ACTIVITY WAS AGAIN LOW FOR THE PAST

24 HOURS. THE SECOND ASSIGNED REGION 4323 (S17E56) PRODUCED A
SUBNORMAL FLARE WITH ASSOCIATED C1 X-RAY EVENT AT 21/0642UT.

THE FIRST ASSIGNED REGION WAS 4322 (N17W45) DURING THIS PERIOD.
THERE WAS ACTIVE SURGING ON THE SE LIMB FROM 15 TO 25 DEGREES
SOUTH LATITUDE EARLY IN THE PERIOD. LATER, THE THIRD ASSIGNED
REGION 4324 (S19E85) ROTATED ONTO THE DISC IN THIS VICINITY.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO
CONTINUE AT A LOW LEVEL. A SLIGHT INCREASE IN THE ACTIVITY
FROM NEWLY ASSIGNED REGIONS 4323 AND 4324 SHOULD MORE THAN
COMPENSATE FOR THE DECREASING ACTIVITY FROM REGION 4317 AS IT
ROTATED TO THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z:

THE GEOMAGNETIC ACTIVITY DECREASED FROM MINOR STORM LEVELS TO
ACTIVE LEVELS IN THE PAST 24 HOUR PERIOD. THE LOW LATITUDE
SITES DECREASED FURTHER TO UNSETTLED LEVELS LATER IN THE
PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS
EXPECTED TO REMAIN AT THE UNSETTLED TO ACTIVE LEVELS WITH
IN-FREQUENT MINOR STORM LEVELS OBSERVED AT HIGH LATITUDE SITES
FOR 24 HOURS ONLY. THIS IS EXPECTED TO BE THE LAST EFFECTS OF
THE SOUTHERN CORONAL HOLE THAT PASSED THE CENTRAL MERIDIAN ON
17 SEP. THE LAST 2 DAYS IS EXPECTED TO BE AT UNSETTLED LEVELS
WITH FREQUENT QUIET LEVELS AT THE LOW LATITUDE SITES.

III. EVENT PROBABILITIES 22 SEP-24 SEP

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEP 102

PREDICTED 22 SEP-24 SEP 103/104/105

90 DAY MEAN 21 SEP 122

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 SEP 016/021

ESTIMATED AFR/AP 21 SEP 015/015

PREDICTED AFR/AP 22 SEP-24 SEP 015/015-010/010-010/010

SOLTERWARN

BT