

HFUS3 BOU 212200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 203
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 21 JUL 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100
TO 21/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. REGION
4545 (S06W12) HAS PRODUCED THE MOST ACTIVITY. THIS GROUP HAS
CHANGED FROM A B TO A D TYPE SPOT GROUP IN THE LAST 24 HOURS
AND HAS PRODUCED THREE OPTICAL SUBFLARES IN THE MEAN TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW. NUMEROUS POINT BRIGHTENINGS AND AN ARCH FILAMENT
SYSTEM ASSOCIATED WITH REGION 4545 SHOW A POSSIBILITY OF
CONTINUED GROWTH BUT IT SHOULD'NT PRODUCE MORE THAN A C TYPE
X-RAY EVENT IN THIS PERIOD. OLD REGIONS 4523 AND 4538 ARE
EXPECTED TO ROTATE ONTO THE DISK IN THE NEXT THREE DAYS BUT
THEY SHOULD'NT ADD MUCH TO SOLAR ACTIVITY, AS THEIR HISTORIES
ARE QUITE UNEVENTFUL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN AT MOSTLY UNSETTLED LEVELS AT
ALL LATITUDES IN THE PAST 24 HOURS WITH ISOLATED PERIODS AT
ACTIVE LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD
SHOULD REMAIN AT UNSETTLED LEVELS FOR THIS PERIOD.

III. EVENT PROBABILITIES 22 JUL-24 JUL

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JUL 084

PREDICTED 22 JUL-24 JUL 083/083/083

90 DAY MEAN 21 JUL 114

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 JUL 013/017

ESTIMATED AFR/AP 21 JUL 010/012

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

SOLTERWARN