

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