

FUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 203

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE MOST SIGNIFICANT AREA ON THE DISK IS NEAR REGION 4249 (S09W65), WHERE A NEW BIPOLEAR GROUP EMERGED TODAY. NEW REGION 4260 (S06W65) JOINED 5 OTHER SPOTTED AND UNSPOTTED REGIONS IN CLOSE PROXIMITY, AND HAS PRODUCED NEAR-CONTINUAL C-CLASS X-RAY FLARES SINCE 1300Z. SIGNIFICANT GROWTH WAS REPORTED IN REGIONS 4253 (N11W04), 4255 (N08W14), AND MINOR GROWTH WAS SEEN IN 4256 (S05W13). OTHER REGIONS REMAINED STABLE OR DECAYED. UNSPOTTED REGION 4254 (S12E20) PRODUCED A C2/1N FLARE AT 0802Z. SURGING ON THE WEST LIMB (NW18) MARKED THE DEPARTURE OF REGION 4246. THE EAST LIMB REMAINED QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. Owing TO THE EMERGENCE OF REGION 4260 AND ITS POSSIBLE INTERACTION WITH 4249 AND OTHER REGIONS NEARBY, THE PROBABILITY OF ISOLATED SIGNIFICANT FLARES HAS BEEN INCREASED UNTIL WEST LIMB PASSAGE OF THIS COMPLEX AREA.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME ACTIVE AND REMAIN ACTIVE FOR THE NEXT THREE DAYS IN RESPONSE TO A PLUS-POLARITY SOUTHERN CORONAL HOLE. IN ADDITION, THE LARGE-SCALE MAGNETIC NEUTRAL LINE IS RESTRUCTURING IN THE NORTH CENTRAL PORTION OF THE DISK. THIS ACTIVITY IS EXPECTED INCREASE THE GEOMAGNETIC LEVELS FOR THE NEXT FEW DAYS.