

HFUS3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 196

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 JUL 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY HAS AGAIN REMAINED LOW DURING THE PAST 24 HOURS. THE LARGEST EVENT OBSERVED HAS BEEN A B7, OPTICAL INCREASE BUT BELOW FLARE LEVEL, FROM REGION 4532 (S07W72) AT 1422UT. NO RADIO WAS REPORTED WITH THIS EVENT HOWEVER THE OPTICAL REPORTS INDICATE A PARALLEL RIBBION BRIGHTNING IN THE LEADER PORTION OF THE REGION WHICH MAY HAVE BEEN THE CAUSE OF ACTIVATION OF THE PROMINENCE LOCATED AT NW00 THE EVENT REACHED .14 RADII. THE REST OF THE DISK HAS BEEN GENERALLY STABLE. NO NEW REGIONS WERE OBSERVED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO VERY LOW DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR TO MAJOR STORM LEVELS DURING THE PAST 24 HOURS. THE HIGH LATITUDE SITES OBSERVED MAJOR STORM CONDITIONS FROM 0130UT THROUGH 0730UT. THE MID-LATITUDE SITES HAVE OBSERVED ISOLATED PERIODS OF MAJOR STORM CONDITIONS GENERALLY DURING THE NIGHT TIME SECTORS. THIS DISTURBANCE IS APPARENTLY FROM A NEGATIVE POLARITY NORTHERN CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT MINOR STORM, MAJOR STORM CONDITIONS AT THE HIGH LATITUDE SITES, LEVELS UNTIL THE END OF 17 JULY WHEN A RETURN TO ACTIVE AND UNSETTLED CONDITIONS IS EXPECTED.

III. EVENT PROBABILITIES 15 JUL-17 JUL

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JUL 091

PREDICTED 15 JUL-17 JUL 092/092/093

90 DAY MEAN 14 JUL 117

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JUL 044/056

ESTIMATED AFR/AP 14 JUL 042/045

PREDICTED AFR/AP 15 JUL-17 JUL 020/020-025/025-020/020

SOLTERWARN 020/030

BT