

HFUS3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 198

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100 TO 17/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. ONE SPOTTED REGION, 4677(S14E55), WAS THE ONLY REGION ON THE DISK. THIS STABLE C50 TYPE SPOT GROUP HAS A BETA MAGNETIC CLASSIFICATION. A TYPE II RADIO BURST (IMPORTANCE 2) AT APPROXIMATELY 0330-0400UT WAS NOT CORRELATED WITH ANY OPTICAL FLARE ACTIVITY. HOWEVER A WEAK X-RAY EVENT ATTRIBUTED TO THE WEST LIMB OCCURRED SIMULTANEOUSLY. A LARGE PROMINENCE COMPLEX WAS SEEN ON THE SE LIMB. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT 72 HOURS. REGION 4669(S08, CAR 120) IS DUE TO RETURN AT 1400UT 18 JULY. THIS REGION EXHIBITED CYCLICAL GROWTH/DECAY ON THE LAST ROTATION BUT NO FLARE ACTIVITY. THE DENSE PROMINENCE ACTIVITY NEAR S25E90 COULD ACCOMPANY THE REAPPEARANCE OF THIS REGION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE WITH EXTENDED PERIODS OF MINOR STORM CONDITIONS. THE MINOR STORM LEVELS WERE CONCENTRATED IN THE PERIODS 0300-0730UT AND 0900-2100UT AT MIDDLE AND HIGH LATITUDES. THE SOURCE OF THE INCREASED ACTIVITY IS PROBABLY THE CORONAL HOLE AT CENTRAL MERIDIAN 14 JULY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE TO MINOR STORM FOR THE NEXT 24 HOURS. ACTIVITY IS EXPECTED TO DIMINISH TO UNSETTLED TO ACTIVE CONDITIONS FOR THE LAST 48 HOURS OF THE PERIOD.

III. EVENT PROBABILITIES 18 JUL-20 JUL

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JUL 070

PREDICTED 18 JUL-20 JUL 071/071/070

90 DAY MEAN 17 JUL 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 JUL 004/008

ESTIMATED AFR/AP 17 JUL 024/025

PREDICTED AFR/AP 18 JUL-20 JUL 015/020-012/015-010/015

SOLTERWARN

BT