

HFUS 1 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 203

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 22 JULY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE WITH AN M1 CLASS X-RAY EVENT FROM REGION 1203 (N18W107) AT 1252Z. NO OPTICAL OBSERVATION OF THIS EVENT WAS POSSIBLE DUE TO ITS BEHIND THE WEST LIMB LOCATION. REGION 1221 (N13W46) HAS DISPLAYED WEAK ARCH FILAMENTS BUT HAS NOT PRODUCED FLARE ACTIVITY. NEW REGIONS 1225 (N18E36) AND 1226 (N26E48) HAVE FORMED DURING THE PAST 24 HOURS. REGION 1225 HAS DISPLAYED COMPACT PLAGE. A LARGE PROMINENCE AT SE40 HAS BEEN VISIBLE THROUGHOUT THE DAY. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE. IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH THE SLIGHT POSSIBILITY OF M CLASS FLARES FROM REGION 1221 BEING THE MOST PROBABLE ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AND IS EXPECTED TO REMAIN SO FOR THE NEXT 24 HOURS. THE PROTON EVENT FORECAST TO OCCUR ON THE 22ND HAS NOT BEEN OBSERVED. THE RECURRENT MAGNETIC ACTIVITY DUE ON THE 24TH IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS.

III. EVENT PROBABILITIES 23 JULY - 25 JULY

CLASS M 20/10/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 JULY 123

PREDICTED 23-25 JULY 118/115/118

90-DAY MEAN 22 JULY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 JULY 08

ESTIMATED AFR/AP 22 JULY 10/10

PREDICTED AFR/AP 23-25 JULY 10/15 - 20/25 - 10/15

SOLTERWARN

BT

*Flux 23 July*

*120*