

HFUS 1 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 191

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 JULY 1978

IA. SOLAR ACTIVITY HAS BEEN HIGH. REGION 1203 (N20E50) WITH ITS LARGE COMPLEX SPOT GROUP AND BRIGHT H-ALPHA PLAGE HAS COMPLETELY DOMINATED ACTIVITY. IN ADDITION TO SEVERAL CLASS M X-RAY BURST AND AN X-3, REGION 1203 PRODUCED AN X-8 X-RAY BURST AT 100620 U.T. THAT CORRELATED WITH A 2B OPTICAL FLARE AND A 2000 FLUX UNIT RADIO BURST AT 2605 MHZ. REGION 1203 IS A DELTA GAMMA MAGNETICALLY AND IS PROBABLY THE MAIN REGION RESPONSIBLE FOR THE X-RAY BACKGROUND FLUCTUATING NEAR C-3 LEVEL. SEVERAL SMALL NEW REGIONS HAVE APPEARED SINCE YESTERDAY; 1196 (N20W45) WHICH WAS PREVIOUSLY ONLY A PLAGE, 1207 (N27E49) AND 1208 (N17E84) WHICH MAY NOT BE FULLY ON THE DISK AS YET.

IB. REGION 1203 IS EXPECTED TO MAINTAIN ACTIVITY AT ITS PRESENT LEVEL.

II. THE GEOMAGNETIC FIELD IS QUIET TO UNSETTLED. NO CHANGE IS EXPECTED UNTIL 12 JULY WHEN A MINOR STORM DUE TO THE RECENT FLARE ACTIVITY SHOULD BEGIN.

III. EVENT PROBABILITIES 11 JULY - 13 JULY

CLASS M 95/95/95

CLASS X 30/35/40

PROTON 10/15/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX,

OBSERVED 10 JULY 153

PREDICTED 11-13 JULY 158/163/170

90-DAY MEAN 10 JULY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 JULY 10

ESTIMATED AFR/AP 10 JULY 10/14

PREDICTED AFR/AP 11-13 JULY 12/15 - 35/25 - 18/25

SOLTERWARN

BT