

HFUS 1 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 193

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 JULY 1978

IA. SOLAR ACTIVITY WAS HIGH DURING THE PAST 24 HOURS WITH SIX
M-CLASS X-RAY EVENTS AND NUMEROUS SUBFLARES BEING OBSERVED. REGION
1203 (N18E24) WAS THE MAIN PRODUCER OF ENERGETIC ACTIVITY;
PRODUCING ALL SIX OF THE M-EVENTS. THIS REGION CONTINUES TO BE A
VERY COMPLEX E-TYPE SPOT GROUP WHICH IS CLASSIFIED MAGNETICALLY
AS A GAMMA-DELTA AND HAS ABOUT 37 SPOTS. THE LARGEST EVENT WAS AN
M4 WHICH MAXED AT 12/0251Z. THE RADIO EMISSIONS WHICH ACCOMPANIED
ALL THE M-EVENTS WERE WEAK TO MODERATE. MODERATE SWFS WERE REPORTED
WITH SEVERAL OF THE M-EVENTS. REGION 1196 (N20W71) PRODUCED A
NUMBER OF SUBFLARES AND SHOWED SIGNIFICANT GROWTH.

IB. SOLAR ACTIVITY IS EXPECTED TO BE VERY HIGH DURING THE NEXT 24
HOURS. REGION 1203 REMAINS A REAL THREAT TO PRODUCE A PROTON FLARE,
AND PERIODIC PRODUCTION OF M-CLASS FLARES SHOULD CONTINUE.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS. A
MAJOR FLARE INDUCED GEOMAGNETIC STORM IS EXPECTED TO COMMENCE
EARLY IN THE ZULU DAY ON 13 JULY.

III. EVENT PROBABILITIES 13 JULY - 15 JULY

CLASS M 99/99/99

CLASS X 50/50/50

PROTON 50/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JULY 175

PREDICTED 13-15 JULY 179/182/186

90-DAY MEAN 12 JULY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 JULY 07

ESTIMATED AFR/AP 12 JULY 03/07

PREDICTED AFR/AP 13-15 JULY 55/55 - 45/45 - 25/25

SOLTERWARN

BT