

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 203

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 21 JULY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE WITH 9 FLARES FROM 6  
DIFFERENT REGIONS AND 5 UNASSOCIATED SMALL X-RAY EVENTS REPORTED  
DURING THE PAST 24 HOURS. REGION 2562 (S13W64) PRODUCED THE  
LARGEST EVENT, A M8/1B FLARE AT 0301 UT WITH AN ASSOCIATED RADIO  
BURST OF 170 FLUX UNITS AT 2695 MHZ. THE SPOT GROUP APPEARS TO BE  
SIMPLIFYING BUT THE REGION CONTINUES TO PRODUCE SEVERAL FLARES A  
DAY. REGIONS 2570 (S2SW25), 2571 (S2IW12), 2574 (N05W15), 2579  
(S19E28) AND 2581 (S08E36) ALL PRODUCED SMALL FLARES. NO SIGNIFI-  
CANT CHANGES WERE REPORTED IN ANY OF THESE REGIONS.

IB. SOLAR ACTIVITY IS EXPECTED TO DECREASE AS REGION 2562 ROTATES  
BEYOND WEST LIMB ON 24 JULY. REGIONS 2570 AND 2571 ARE THE ONLY  
OTHER REGIONS WHICH MAY PRODUCE CLASS M EVENTS.

II. THE GEOMAGNETIC FIELD HAS REMAINED UNSETTLED THE PAST 24  
HOURS. THE FIELD IS EXPECTED TO CONTINUE UNSETTLED DURING THE  
FORECAST PERIOD.

III. EVENT PROBABILITIES 22 JULY - 24 JULY

CLASS M 65 / 60 / 50

CLASS X 05 / 05 / 01

PROTON 05 / 05 / 01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JULY 246

PREDICTED 22-24 JULY 242/236/225

90-DAY MEAN 21 JULY 203

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 20 JULY 07

ESTIMATED AFR/AP 21 JULY 10/15

PREDICTED AFR/AP 22-24 JULY 12/15 - 10/15 - 10/15

SOLTERWARN

BT