

HFUS 1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 240

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 28 AUGUST 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.  
THE LARGEST EVENT RECORDED TODAY WAS AN M1/1B FLARE FROM REGION  
1951 (N 18W 14) WHICH REACHED MAXIMUM AT 1308Z. THIS FLARE APPEARED  
TO BE SYMPATHETIC WITH SMALL FLARES IN REGIONS 1958 (N 18E 55) AND  
1943 (N 08W 37) WHICH BEGAN SHORTLY BEFORE THE 1B IN 1951. MINOR  
RADIO BURSTS AND IMPORTANCE THREE SHORT WAVE FADES WERE LINKED TO  
THIS EVENT. THE REMAINING EVENTS OF THE DAY WERE CONFINED TO  
CLASS-C X-RAY EVENTS WITH A TOTAL OF 18 SUBFLARES OBSERVED FROM  
REGIONS 1951, 1948, 1958, 1959 (N24E50) AND 1955 (S27E23). TWO  
NEW REGIONS HAVE BEEN NUMBERED TODAY, 1960 (N 18E 01) AND 1961  
(N 13E 72), BOTH SIMPLE B-TYPE GROUPS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS.  
ALTHOUGH REGION 1943 HAS DECAYED SIGNIFICANTLY, IT STILL RETAINS  
ITS POTENTIAL FOR M-CLASS EVENTS AND AN ISOLATED X-CLASS FLARE.  
REGIONS 1951, 1942 AND NOW 1958 HAVE M-CLASS POTENTIAL.

II. THE GEOMAGNETIC FIELD WAS AT HIGH UNSETTLED LEVELS WITH  
OCCASIONAL SHORT PERIODS OF ACTIVE CONDITIONS. THE MINOR STORM  
EXPECTED AS A RESULT OF THE X2 FLARE AND THE FAVORABLE LOCATION  
OF A CORONAL HOLE HAS NEVER MATERIALIZED, PERHAPS OWING TO A  
SIGNIFICANT FIELD LINE RESTRUCTURING. THE FIELD IS EXPECTED TO  
REMAIN ACTIVE DURING THE NEXT TWO DAYS WITH POSSIBLE MINOR STORM  
CONDITIONS DURING NIGHTTIME SECTORS.

III. EVENT PROBABILITIES 29 AUGUST - 31 AUGUST

CLASS M 70/60/60

CLASS X 30/25/20

PROMPT 20/15/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 AUGUST 210

PREDICTED 29-31 AUGUST 210/212/208

90-DAY MEAN 28 AUGUST 174

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 27 AUGUST 13

ESTIMATED AFR/AP 28 AUGUST 15/15

PREDICTED AFR/AP 29-31 AUGUST 25/25 - 20/20 - 12/15

SOLTERWARN

BT