

HFUS 1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 209

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

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. AN  
M1/B PARALLEL RIBBON FLARE OCCURRED AT 1715 UT (MAXIMUM) FROM  
REGION 1888 (S14W21). THIS REGION GREW CONSIDERABLY TODAY IN AREA  
AND MAGNETIC COMPLEXITY. REGION 1887 (S13W42) PRODUCED ONLY SUB-  
FLARES BUT REMAINS MAGNETICALLY INTERESTING WITH A TIGHTLY KINKED  
NEUTRAL LINE. REGION 1890 (N15E16) HAD A PARALLEL RIBBON SUBFLARE  
MAXING AT 1455 UT AND RETAINS ITS DARK ACTIVE NEUTRAL LINE FILAMENT.  
SOME RELAXATION IN STRUCTURE IN 1890 IS EVIDENT BUT SIMILAR RELAX-  
ATION PRECEDED THE M1 FLARE IN 1888. TWO NEW REGIONS WERE NUMBERED  
TODAY. THEY ARE 1895 (S16E50), A B-TYPE GROUP, AND 1896 (N11E77),  
AN H-TYPE SPOT THAT ROTATED OVER THE EAST LIMB. 1896 IS THE RETURN  
OF REGION 1849 WHICH PRODUCED MODERATE ACTIVITY LAST ROTATION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE OWING TO THE  
FLARE POTENTIAL IN REGIONS 1887, 1888, AND 1890.

II. THE GEOMAGNETIC FIELD WAS QUIET WITH SOME ACTIVE PERIODS DURING  
THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED  
THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 JULY - 31 JULY

CLASS M 70/70/70

CLASS X 15/15/15

PROTON 10/15/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JULY 153

PREDICTED 29-31 JULY 155/157/157

90-DAY MEAN 28 JULY 172

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 JULY 21

ESTIMATED AFR/AP 28 JULY 07/14

PREDICTED AFR/AP 29-31 JULY 10/10 - 10/12 - 12/15

SOLTERWARN

BT