

HEUS 1 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 224

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 11 AUGUST 1980

IA. A FLARE AT 0100Z REACHED CLASS M2 AND WAS ACCOMPANIED BY  
WEAK TYPE II AND TYPE IV RADIO BURSTS. IT ORIGINATED IN REGION  
2618 (S27E65) WHICH IS A SMALL CLASS D SPOT GROUP WITH POLARITIES  
REVERSED FROM NORMAL ARRANGEMENT FOR SOUTHERN HEMISPHERE SPOTS.  
OTHERWISE SOLAR ACTIVITY HAS BEEN LOW WITH VERY FEW EVENTS AND  
LIMITED TO CLASS C1. SPOT GROWTH IS OCCURRING IN FIVE OF THE  
16 SPOTTED REGIONS, 2604 (S23W90), 2611 (S20E27), 2614 (N15E44),  
2615 (N05E42) AND 2619 (S22E22). REGION 2611 HAS THE MOST COMPLEX  
MAGNETIC STRUCTURE AND AN ACTIVE EMBEDDED FILAMENT. ITS INTER-  
ACTION WITH REGION 2619 MAY PRODUCE FLARES. REGION 2614 HAS THE  
MOST RAPID GROWTH.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE ONLY SLIGHTLY ABOVE  
PRESENT LEVEL BEFORE AGAIN DECLINING. CLASS M FLARES ARE NOT  
EXPECTED BUT ONCE OR TWICE DURING THIS FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET. QUIET  
CONDITIONS ARE EXPECTED TO DOMINATE THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 12 AUGUST - 14 AUGUST

CLASS M 30/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 AUGUST 179

PREDICTED 12-14 AUGUST 185/191/193

90-DAY MEAN 11 AUGUST 195

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 AUGUST 09

ESTIMATED AFR/AP 11 AUGUST 08/08

PREDICTED AFR/AP 12-14 AUGUST 06/10 - 08/12 - 08/12

SOLTERWARN

BT