

HFUS 1 ROU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 258

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 09 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE LAST 24 HOURS.  
A CLASS M9 X-RAY EVENT OCCURED AT 09/1138 UT (MAXIMUM). IT WAS A  
TENFLARE, 924 F.U. MAXING AT 1251 UT, 63 MINUTE DURATION.  
NO OPTICAL REPORTS HAVE BEEN RECEIVED BUT POST FLARE LOOPS WERE  
OBSERVED AT 1200 UT FROM NEW REGION 1620 (N16E09), WHICH IS A  
D-TYPE GROUP. THIS REGION HAS ALSO PRODUCED SEVERAL OTHER SUBFLARE  
TODAY. HOWEVER THE M9 EVENT MAY ALSO HAVE ORIGINATED FROM MAG-  
NETICALLY COMPLEX REGION 1613 (S27E36). NANCA Y RADIO OBSERVATORY  
REPORTED A 3 CM SOURCE NEAR THAT SOLAR LONGITUDE. OTHER SMALL  
C-CLASS SUBFLARES WERE OBSERVED AND ASSOCIATED WITH 1604 (N17W30)  
and -5 1616 (N25E23). BESIDES 1620, THREE OTHER NEW REGIONS WERE  
NUMBERED, REGION 1617 (S17W12) IS THE EASTERN PORTION OF 1605  
(S13W21), NOW CLEARLY DISTINGUISHABLE AS A SEPERATE REGION.  
REGION 1618 (N11E15) IS A SIMPLE A SPOT. REGION 1619 (S33E42) IS A  
B-TYPE GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT  
24 HOURS. REGIONS 1620 (S13E21) AND 1613 ARE MAGNETICALLY COMPLEX,  
AND COULD PRODUCE ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING  
THE PAST 24 HOURS. GEOMAGNETIC ACTIVITY SHOULD REMAIN MOSTLY  
UNSETTLED THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 MARCH - 12 MARCH

CLASS M 40/50/60

CLASS X 05/05/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 MARCH 134

PREDICTED 10-12 MARCH 188/192/195

90-DAY MEAN 09 MARCH 195

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 MARCH 04

ESTIMATED AFR/AP 09 MARCH 14/13

PREDICTED AFR/AP 10-12 MARCH 10/7 - 10/10 - 10/8

SOLTERWARN