

HFUS 3 BOU  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO  
SDF NUMBER 199

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 18 JULY 1978

IA. SOLAR ACTIVITY HAS BEEN AT MODERATE LEVELS THE PAST 24 HOURS.  
THE MOST SIGNIFICANT EVENT WAS A LONG LASTING M-6 FLARE FROM RGN  
1203 (N18W53) AT 18/1959Z. THIS EVENT WAS ACCOMPANIED BY ONLY  
MINOR RADIO; HOWEVER, THE LONG DURATION X-RAY BURST IMPLIES  
SIGNIFICANT ENERGY WAS RELEASED. REGION 1203 ALTHO DECLINING IN  
WHITE LIGHT, REMAINS MAGNETICALLY COMPLEX. ADDITIONAL ACTIVITY  
WAS OBSERVED EARLIER IN REGION 1203 AND REGION 1208 (N15W28).  
RGN 1208 APPEARS TO BE DEVELOPING SLOWLY. THE AREA NEAR  
1211 (N18E05) IS MAGNETICALLY COMPLEX AND THE LARGE FILAMENT TO  
THE WEST MAY BE ERUPTING.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A MODERATE LEVEL  
WITH MOST OF THE EVENTS OCCURRING IN RGN 1203.

II. THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED UNTIL ABOUT  
18/1600Z WHEN ACTIVE CONDITIONS WERE REPORTED BY SEVERAL STATIONS.  
UNSETTLED CONDITIONS WITH SOME ACTIVE PERIODS ARE EXPECTED THRU  
THE FORECAST PERIOD. A POSSIBILITY EXISTS FOR A MINOR PROTON  
EVENT AS A RESULT OF THE M-6 EVENT FROM 1203.

III. EVENT PROBABILITIES 19 - 21 JULY

CLASS M 85/85/85

CLASS X 40/40/30

PROTON 50/50/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 - JULY 152

PREDICTED 19 - 21 JULY 148/146/144

90-DAY MEAN 18 JULY 148

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 JULY 04

EXTIMATED AFR/AP 18 JULY 11/15

PREDICTED AFR/AP 19 - 21 JULY 20/25 - 20/20 - 20/20

SOLTERWARN

BT