

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 190

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 JULY 1978

IA. SOLAR ACTIVITY INCREASED TO A HIGH LEVEL THE PAST 24 HOURS WITH MOST OF THE EVENTS COMING FROM REGION 1203 (N18E63). THE LARGEST EVENT SO FAR WAS AN X-3 FROM 1203 AT 09/1833Z ACCOMPANIED BY SMALL RADIO EVENT, UMBRAL COVERAGE, AND DISK LOOPS. THIS EVENT IS PART OF A SERIES OF FLARES, MANY WERE M CLASS, FROM REGION 1203 AND MANY OBSERVATORIES ARE FINDING IT DIFFICULT TO SEPARATE INDIVIDUAL FLARES. REGION 1203 APPEARS TO CONSIST OF A SINGLE LARGE MULTI UMBRA SPOT, DEFINED AS GAMMA-DELTA BY MT WILSON AND ABOUT 5 DEGREES LATITUDE EXTENT. AN M-1 EVENT ACCOMPANIED A BRIGHT LIMB SURGE AT 09/0707Z FROM DEPARTING REGION 1192 (S22W90). ANOTHER M-1 EVENT APPEARS TO BE ASSOCIATED WITH A FLARE IN REGION 1197 (S18E33) AT 09/1738Z.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE TO HIGH LEVEL THRU THE FORECAST PERIOD. M FLARES AND INFREQUENT X-FLARES SHOULD CONTINUE TO OCCUR IN REGION 1203. MAJOR EVENTS ARE POSSIBLE. THE CHANCE OF PROTON EVENTS WILL INCREASE AS REGION 1203 ROTATES FURTHER ON TO THE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED WITH SOME QUIET PERIODS THE PAST 24 HOURS. THIS LEVEL OF ACTIVITY SHOULD CONTINUE THRU THE FORECAST PERIOD, HOWEVER, FLARE INDUCED EVENTS WILL BECOME MORE LIKELY LATER IN THE PERIOD.

III. EVENT PROBABILITIES 10 JULY - 12 JULY

CLASS M 95/95/95

CLASS X 25/30/35

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JULY 146

PREDICTED 10-12 JULY 151/156/162

90-DAY MEAN 09 JULY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 JULY 15

ESTIMATED AFR/AP 09 JULY 06/12

PREDICTED AFR/AP 10-12 JULY 10/15 - 07/12 - 07/12

SOLTERWARN

BT