

HFUS 1 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SOF NUMBER 192

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 10 JULY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. MOST OF THE ACTIVITY HAS CONSISTED OF C-CLASS X-RAY BURSTS FROM NEW REGION 2562 (S11E86) WHICH IS JUST MAKING ITS APPEARANCE ON THE DISK. THE LARGEST EVENT FROM THIS REGION WAS A C6/SF AT 1543Z MAXIMUM WITH LOOPS BECOMING VISIBLE AT 1705Z WHICH COULD INDICATE THE MOST ACTIVE PORTION OF THIS REGION IS STILL BEHIND THE LIMB. A B/C4 FLARE WAS OBSERVED FROM THIS REGION AT 1103Z MAXIMUM WITH POST FLARE LOOPS VISIBLE. MINOR RADIO BURSTS WERE RECORDED THROUGH THE RADIO SPECTRUM. REGION 2550 (N28W87), NOW ROTATING OVER WEST LIMB, PRODUCED A C4/1F AT 0618Z MAXIMUM. REGIONS 2559 (N16E54) AND 2561 (S23E26) ALSO PRODUCED SUBFLARES TODAY. NEW REGION 2563 (N19E59) IS THE AREA NORTHEAST OF 2559. MT WILSON SPOT POLARITIES INDICATE THIS IS A SEPARATE REGION.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE TO MODERATE LEVELS DURING THE FORECAST PERIOD. THE SOUTHEAST LONGITUDES NOW RETURNING WERE AN AREA OF MUCH STRESS LAST ROTATION WITH THREE POLARITY FIELDS CONVERGING TOGETHER. SIGNIFICANT ACTIVITY IS EXPECTED HERE. REGION 2561 IS GROWING SLOWLY ALONG WITH THE 2559/2563 COMPLEX, AND BOTH COULD BECOME PRODUCERS OF MODERATE FLARES.

II. THE GEOMAGNETIC FIELD GRADUALLY SETTLED TO QUIET LEVELS BY MID-ZULU DAY. QUIET TO LOW UNSETTLED LEVELS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 11 - 13 JULY

CLASS M 70/80/85

CLASS X 01/05/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JULY 159

PREDICTED 11 JULY 13 JULY 165/170/177

90-DAY MEAN 10 JULY 202

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 9 JULY 09

ESTIMATED AFR/AP 10 JULY 04/06

PREDICTED AFR/AP 11 - 13 JULY 07/10 05/08 07/10

SOLTERWARM

BT