

HFUS-1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO  
SD F NUMBER 248

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 04 SEPT 1980

I A. AN IMPULSIVE MAJOR FLARE (M6/2B) OCCURRED AT 0203Z (MAX) IN REGION 2645 (S07W32) WITH ONLY MINOR RADIO BURSTS. OTHERWISE THE SUN HAS PRODUCED ONLY A FEW VERY SMALL CLASS C EVENTS. REGION 2645 CONTINUES RAPID SPOT EVOLUTION AND STILL HAS A DELTA MAGNETIC CONFIGURATION. ITS TOTAL SPOT AREA IS DECREASING AND THE PLAGE APPEARS LESS ACTIVE. REGION 2646 (N12W28) CONTINUES AS A LARGE CLASS E SPOT GROUP OF SIMPLE MAGNETIC STRUCTURE EXCEPT FOR A SMALL DELTA CONFIGURATION IN THE CENTER OF THE REGION. REGION 2646 HAS PRODUCED MOST OF THE SUBLARES REPORTED TODAY. SPOT GROWTH IN REGION 2657 (N15E45) HAS FORMED A WEAK DELTA CONFIGURATION IN AN ELONGATED WEAK PENUMBRA. THIS REGION HAS MERGED WITH THE TRAILING PORTION OF REGION 2658 WITH WHICH IT SHARES A COMMON NEUTRAL LINE. ALL OTHER REGIONS ARE SMALL AND STABLE.

I B. SOLAR ACTIVITY IS EXPECTED TO BE LOW EXCEPT FOR A SINGLE CLASS M EVENT SOMETIME DURING THE NEXT TWO DAYS. REGIONS 2645 AND 2646 ARE EXPECTED TO DECAY TO LOW ACTIVITY BY THE THIRD DAY.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL MIDDAY AND QUIET SINCE THEN. QUIET CONDITIONS MAY BE INTERRUPTED BY UNSETTLED ACTIVITY AS A RESULT OF THE LARGE FLARE EARLY TODAY, BUT CONTINUED QUIET IS MORE PROBABLE.

III. EVENT PROBABILITIES 05 - 07 SEPT

CLASS M 60/50/40

CLASS X 15/10/05

PROMPT 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 SEPT 22.1

PREDICTED 05 - 07 SEPT 215/208/200

90-DAY MEAN 04 SEPT 1185

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 03 SEPT 11

ESTIMATED AFR/AP 04 SEPT 10/12

PREDICTED AFR/AP 05 - 07 SEPT 08/12 08/15 06/08

SOLTERWARN

BT