

HFUS 1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 248

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

IA. 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 FLARE
APPEARS LESS ACTIVE. REGION 2646 (N12W23) 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 SUBFLARES REPORTED TODAY. SPOT GROWTH IN REGION
2657 (N15E45) HAS FORMED A WEAK DELTA CONFIGURATION IN AN ELONG-
ATED 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.

IB. 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

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 SEPT 221

PREDICTED 05 - 07 SEPT 215/208/200

90-DAY MEAN 04 SEPT 185

V. GEOMAGNETIC A 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