

HFUS 3 BOU 281400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 343A

JOINT USAF/NASA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 08 DECEMBER 1980

I A. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. ONLY TWO CLASS C XRAY EVENTS HAVE BEEN RECORDED FOR THIS PERIOD: A C4 EVENT AT 07/162Z OF UNKNOWN ORIGIN AND A C3 AT 08/0723Z FROM REGION 2826 (N 15E55). WEATHER AND COMMUNICATION DIFFICULTIES HAVE LIMITED EVALUATION OF SOLAR CONDITIONS. IT APPEARS THAT REGION 2826 IS A YOUNG REGION EMBEDDED IN AN EXTENSIVE REMNANT OF EARLIER ACTIVITY. ITS SPOT GROUP IS A SMALL CLASS-D. REGIONS 2810 (S11W76) AND 2816 (S10W63) CONTINUE TO DOMINATE THE VISIBLE SOLAR DISK WITH SPOTS OF MODERATE SIZE IN A BRIGHT PLAGE. THESE REGIONS ARE NOW DECLINING AND NO LONGER HAVE A DELTA CONFIGURATION. SMALL NEW REGIONS HAVE APPEARED AT S17E64, REGION 2827, AND S08E30 (REGION 2828).

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE ENTIRE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS CONTINUED VERY QUIET FOR THE PAST 24 HOURS. UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED TO GRADUALLY COMMENCE LATE TODAY AND CONTINUE FOR APPROXIMATELY 36 HOURS. UNSETTLED TO QUIET CONDITIONS ARE EXPECTED FOR THE LATTER HALF OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 09-11 DECEMBER

CLASS M 40/40/40

CLASS X 01/01/01

PREDICTION 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 07 DEC 182

ESTIMATED 08 DEC 176

PREDICTED 09-11 DEC 170/166/163

90 DAY MEAN 07 DEC 233

V. GEOMAGNETIC INDICES

OBSERVED AFR 06 DEC 03 AFR/AP 07 DEC 05

ESTIMATED AFR 07 DEC 05 AFR/AP 08 DEC 07/08

PREDICTED AFR/AP 09-11 DEC 18/20 10/13 10/12

SOLTERWARN

BT