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HFUS-3 BOU 071400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 342A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 07 DECEMBER 1980

I A. SOLAR ACTIVITY INCREASED TO A MODERATE LEVEL WITH THE OCCURRENCE OF TWO CLASS M1 XRAY EVENTS. THE EVENT AT 06/1439Z WAS NOT OBSERVED OPTICALLY, BUT IS PRESUMED TO HAVE COME FROM REGION 2810 (S11W61) BASED ON DESCRIPTIONS OF ITS FREQUENT BRIGHTENINGS AND FILAMENT ACTIVITY. THIS REGION IS SLOWLY DECAYING, BUT RETAINS A SMALL DELTA MAGNETIC CONFIGURATION AND IT CONTINUES TO INTERACT WITH REGION 281S (S10W51). REGION 2816 IS STILL GROWING SLOWLY AND IS EXPECTED TO EXPAND INTO THE FOLLOWER PORTION OF REGION 2810. THE CLASS M EVENT OF 07/0544Z WAS OBSERVED AS A 1B FLARE IN REGION 2826 (N15E65) WHICH APPEARS TO BE NEWLY FORMED AND GROWING. ITS SPOT GROUP IS POSSIBLY CLASS C. MINOR SURGES ARE REPORTED AT N10W90 AND S14E90.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN NEAR THE PRESENT LEVEL, WITH MOSTLY CLASS-C EVENTS AND A CLASS M EVENT EVERY TWO DAYS. RADIO FLUX FROM REGIONS DEPARTING OVER WEST LIMB WILL NOT BE FULLY COMPENSATED BY EMERGING OR RETURNING REGIONS.

II. THE GEOMAGNETIC FIELD HAS CONTINUED QUIET FOR THE PAST 24 HOURS. UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED BY LATE ON 08 DECEMBER, WITH ACTIVITY PEAKING NEAR MINOR STORM LEVELS ON THE NEXT DAY. CONDITIONS ARE EXPECTED TO REDUCE TO UNSETTLED LEVELS BY THE THIRD DAY.

III. EVENT PROBABILITIES: 08-10 DECEMBER

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 DEC 176

ESTIMATED 07 DEC 174

PREDICTED 08-10 DEC 170/166/163

90 DAY MEAN 06 DEC 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 DEC 03 AP 06 DEC 04

ESTIMATED AFR 06 DEC 05 AFR/AP 07 DEC 06/07

PREDICTED AFR/AP 08-10 DEC 14/13 13/20 10/13

SOLAR/WARN

BT

AHFUS 1 BOU 072200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 342B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200UT 07 DECEMBER 1980

I A. SOLAR ACTIVITY INCREASED TO A MODERATE LEVEL WITH THE OCCURRENCE OF TWO CLASS M1 XRAY EVENTS. THE EVENT AT 06/1439Z WAS NOT OBSERVED OPTICALLY, BUT IS PRESUMED TO HAVE COME FROM REGION 2810 (S1W61) BASED ON DESCRIPTIONS OF ITS FREQUENT BRIGHTENINGS AND FILAMENT ACTIVITY. THIS REGION IS SLOWLY DECAYING, BUT RETAINS A SMALL DELTA MAGNETIC CONFIGURATION AND IT CONTINUES TO INTERACT WITH REGION 2816 (S10W51). REGION 2816 IS STILL GROWING SLOWLY AND IS EXPECTED TO EXPAND INTO THE FOLLOWER PORTION OF REGION 2810. THE CLASS M EVENT OF 07/0544Z WAS OBSERVED AS A 1B FLARE IN REGION 2826 (N15E65) WHICH APPEARS TO BE NEWLY FORMED AND GROWING. ITS SPOT GROUP IS POSSIBLY CLASS C. MINOR SURGES ARE REPORTED AT N10W90 AND S14E90.

ADDITIONS TO 1200Z: NONE - COVERAGE VERY POOR DUE TO WEATHER AND COMMUNICATIONS PROBLEMS.

B. SOLAR ACTIVITY IS EXPECTED TO REMAIN NEAR THE PRESENT LEVEL, WITH MOSTLY CLASS-C EVENTS AND A CLASS M EVENT EVERY TWO DAYS. RADIO FLUX FROM REGIONS DEPARTING OVER WEST LIMB WILL NOT BE FULLY COMPENSATED BY EMERGING OR RETURNING REGIONS.

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PREDICTED 08-10 DEC 176/170/166

90 DAY MEAN 07 DEC 203

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 06 DEC 03/04

ESTIMATED AFR/AP 07 DEC 05/07

PREDICTED AFR/AP 08-10 DEC 14/13 18/20 10/13

SOLAR TERM

BT