

HFUS 3 BOU 041400  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 339A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 04 DEC 1980

I A. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS.  
REGION 2310 (S11W20) HAS RETAINED ITS MAGNETIC COMPLEXITY  
AND IS STILL GROWING IN WHITE LIGHT, BUT HAS PRODUCED ONLY  
SUBFLARES SO FAR TODAY. CONSIDERABLE GROWTH HAS OCCURRED  
IN REGION 2309 (N22W26) WHERE A MAGNETIC DELTA MAY BE FORM-  
ING, AND IN 2316 (S10W09) WHERE A STRONG AND ACTIVE ARCH  
FILAMENT SYSTEM HAS BEEN OBSERVED. 2316 SHARES A NEUTRAL  
LINE WITH 2310 AND THERE IS OPPORTUNITY FOR INTERACTION.  
ACTIVE SURGING IS OCCURRING AT NW 19 AS 2312 (N17W36)  
APPROACHES WEST LIMB TRANSIT.

I B. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE BASED ON THE  
GOOD PROBABILITY OF SIGNIFICANT FLARES FROM 2310/2316 OLD  
REGION 2733, WHICH PRODUCED SEVERAL M-CLASS FLARES LAST ROTA-  
TION, MAY RETURN ON DEC 6.

II. GEOMAGNETIC ACTIVITY HAS BEEN UNSETLED FOR THE PAST 24  
HOURS. THIS EFFECT OF A LARGE SOUTHERN CORONAL HOLE IS EXPECT-  
ED TO PERSIST THROUGHOUT THE FORECAST PERIOD, WITH NEAR-ACTIVE  
CONDITIONS OCCURRING DURING LOCAL NIGHTTIME HOURS.

III. EVENT PROBABILITIES: 05-07 DECEMBER

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 DEC 204

ESTIMATED 04 DEC 210

PREDICTED 05-07 DEC 205/200/195

90 DAY MEAN 03 DEC 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 DEC 07 AP 03 DEC 13

ESTIMATED AFR 03 DEC 15 AFR/AP 04 DEC 10/15

PREDICTED AFR/AP 05-07 DEC 14/15 14/15 14/15

SOLTERWARM

BT

HFUS 1 BOU 042200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 339B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200UT 04 DECEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS.  
REGION 2810 (S11W20) HAS RETAINED ITS MAGNETIC COMPLEXITY  
AND IS STILL GROWING IN WHITE LIGHT, BUT HAS PRODUCED ONLY  
SUBFLARES SO FAR TODAY. CONSIDERABLE GROWTH HAS OCCURRED  
IN REGION 2809 (N22W26) WHERE A MAGNETIC DELTA MAY BE FORM-  
ING, AND IN 2816 (S10W09) WHERE A STRONG AND ACTIVE ARCH  
FILAMENT SYSTEM HAS BEEN OBSERVED. 2816 SHARES A NEUTRAL  
LINE WITH 2810 AND THERE IS OPPORTUNITY FOR INTERACTION.  
ACTIVE SURGING IS OCCURRING AT NW 19 AS 2812 (N17W86)  
APPROACHES WEST LIMB TRANSIT.

ADDITIONS TO 1200Z ----

SOLAR ACTIVITY HAS REMAINED LOW WITH ONLY C CLASS EVENTS  
BEING REPORTED. REGION 2810 (S12W26) HAS PRODUCED THREE  
SMALL OPTICAL FLARES.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE BASED ON THE  
GOOD PROBABILITY OF SIGNIFICANT FLARES FROM 2810/2816 OLD  
REGION 2788, WHICH PRODUCED SEVERAL M-CLASS FLARES LAST ROTATION,  
MAY RETURN ON DEC 6.

II. GEOMAGNETIC ACTIVITY HAS BEEN UNSETLED FOR THE PAST 24  
HOURS. THIS EFFECT OF A LARGE SOUTHERN CORONAL HOLE IS EXPECTED  
TO PERSIST THROUGHOUT THE FORECAST PERIOD, WITH NEAR-ACTIVE  
CONDITIIONS OCCURRING DURING LOCAL NIGHTIME HOURS.

III. EVENT PROBABILITIES: 05-07 DECEMBER

CLASS M 50/50/50

CLASS X 10/10/10

PROMPT 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 DEC 205

PREDICTED 05-07 DEC 205/200/195

90 DAY MEAN 04 DEC 203

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 03 DEC 20/18

ESTIMATED AFR/AP 04 DEC 10/15

PREDICTED AFR/AP 05-07 DEC 14/15 14/15 14/15

SOLARWARN

BT