

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 1930

IA. 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 NW19 AS 2312 (N17W36)
APPROACHES WEST LIMB TRANSIT.

IB. 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 UNSETTLED 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

SOLTERWAR"

BT

HFUS 1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SOF 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
SNOPTICAL 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 ROTA-
TION, MAY RETURN ON DEC 6.

II. GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED 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 NIGHTIME HOURS.

III. EVENT PROBABILITIES: 05-07 DECEMBER

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 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 A 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

SOLTERWARN

BT