

HFUS 3 BOU 25 1400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 360A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1200UT 25 DEC 1980

IA. SOLAR ACTIVITY HAS REMAINED LOW. THE MOST PREPONDERANT REGION CURRENTLY ON THE DISK IS 2857 (S07E59). LIMB PROXIMITY HAS PRECLUDED RELIABLE MAGNETIC DATA, BUT IT HAS PRODUCED A C7/IN FLARE AT 0241 UT AND A C3/SB AT 0718 UT THIS ZULU DAY AND IS NOW AN E-TYPE SPOT GROUP. REGIONS 2847 (N05W39), 2855 (S23E39), AND 2861 (N18W38) HAVE EACH PRODUCED ONE SUBFLARE TODAY. REGION 2861 IS ACTUALLY REGION 2853 INADVERTENTLY RENUMBERED. SEVENTEEN SPOTTED REGIONS ARE CURRENTLY ON THE DISK AND NONE ARE KNOWN TO POSSESS A SIGNIFICANT MAGNETIC GRADIENT.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. EVALUATION OF THE MAGNETIC CONFIGURATION OF REGION 2857 MAY REVEAL A POTENTIALLY ACTIVE REGION, ALTHOUGH, IT IS CURRENTLY ERUPTIVE. THE PERSISTENTLY ACTIVE FILAMENT IN REGION 2855 INDICATES IT MAY BECOME INCREASINGLY ERUPTIVE, BUT IS FAR TOO SIMPLE MAGNETICALLY TO BECOME ACTIVE WITHOUT UNEXPECTED GROWTH.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. IT IS EXPECTED TO REMAIN QUIET FOR THE NEXT 24 HOURS, BECOMING MILDLY UNSETTLED ON 27-28 DEC.

MERRY CHRISTMAS

III. EVENT PROBABILITIES: 26 DEC - 28 DEC

CLASS M 20/25/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 24 DEC 231

ESTIMATED 25 DEC 228

PREDICTED 26-28 DEC 225/222/218

90 DAY MEAN 24 DEC 215

V. GEOMAGNETIC INDICES

OBSERVED AFR 23 DEC 08 AP 24 DEC 03

ESTIMATED AFR 24 DEC 02 AFR/AP 25 DEC 06/08

PREDICTED AFR/AP 26-28 DEC 06/08 08/10 09/10

SOLTERWARM

BT

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 360B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 25 DECEMBER 1980

IA. SOLAR ACTIVITY HAS REMAINED LOW. THE MOST PREPONDERANT REGION CURRENTLY ON THE DISK IS 2857 (S07E59). LIMB PROXIMITY HAS PRECLUDED RELIABLE MAGNETIC DATA, BUT IT HAS PRODUCED A C7/IN FLARE AT 0241 UT AND A C3/SB AT 0718 UT THIS ZULU DAY AND IS NOW AN E-TYPE SPOT GROUP. REGIONS 2847 (N05W39), 2855 (S23E39), AND 2861 (N18W38) HAVE EACH PRODUCED ONE SUBFLARE TODAY. REGION 2861 IS ACTUALLY REGION 2853 INADVERTENTLY RENUMBERED. SEVENTEEN SPOTTED REGIONS ARE CURRENTLY ON THE DISK AND NONE ARE KNOWN TO POSSESS A SIGNIFICANT MAGNETIC GRADIENT.

ADDITIONS TO THE 1200Z: REGION 2855 HAS CONTINUED TO DEVELOP THROUGH THE DAY AND HAS PRODUCED NUMEROUS SUBFLARES AND POINT BRIGHTENINGS. TWO NEW REGIONS HAVE BEEN IDENTIFIED. THEY ARE REGION 2864 (S10W72), A B-TYPE GROUP, AND REGION 2865 (N25E55), A B-TYPE GROUP WHICH FORMED BETWEEN 2856 (N26E46) AND 2863 (N26E65).

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II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. IT IS EXPECTED TO REMAIN QUIET FOR THE NEXT 24 HOURS, BECOMING MILDLY UNSETTLED ON 27-28 DECEMBER.

MERRY CHRISTMAS

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OBSERVED AFR/AP 24 DECEMBER 02/03

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PREDICTED AFR/AP 26-28 DECEMBER 06/08 - 08/10 - 09/10

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