

HFUS 3 BOU 261415  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
OF SDF NUMBER 361A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 26 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. AN M2 REACHED A  
MAXIMUM AT 0734 UT. SMALL RADIO BURSTS WERE REPORTED, BUT  
THERE WAS NO OPTICAL REPORT. THE ONLY OTHER ACTIVITY THIS  
ZULU DAY HAVE BEEN SUBFLARES, TWO FROM REGION 2855 (S23E28)  
AND ONE SE EACH FROM REGIONS 2847 (N05W56), 2857 (S07E54),  
AND 2865 (N25E54). REGION 2857 (S07E47) REMAINS THE LARGEST  
MOST COMPLEX REGION ON THE DISK, MAGNETICALLY A BETA-GAMMA  
AND IS THE MOST LIKELY SUSPECT FOR THE M2 FLARE. REGIONS  
2855 AND 2865 BOTH GREW AND BECAME INCREASINGLY ERUPTIVE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. GROWTH AND  
IMPROVED FLARE POTENTIAL OF REGION 2857 MAKES THIS REGION  
POTENTIALLY ACTIVE. REGION 2855 IS NOT EXPECTED TO BECOME  
ACTIVE UNLESS GROWTH CONTINUES BEYOND EXPECTATIONS. HOWEVER,  
IT IS EXPECTED TO REMAIN ERUPTIVE, GIVING NUMEROUS SUBFLARES.  
REGION 2865 SHOULD ALSO REMAIN ERUPTIVE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS  
AND IS EXPECTED TO BECOME MILDLY UNSETTLED FOR THE ENTIRE  
FORECAST PERIOD.

III. EVENT PROBABILITIES: 27 - 29 DEC

CLASS M 30/35/40

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 25 DEC 228

ESTIMATED 26 DEC 232

PREDICTED 27-29 DEC 233/230/226

90 DAY MEAN 25 DEC 215

V. GEOMAGNETIC INDICES

OBSERVED AFR 24 DEC 02 AP 25 DEC 06

ESTIMATED AFR 25 DEC 06 AFR/AP 26 DEC 06/08

PREDICTED AFR/AP 27-29 DEC 08/10 09/10 09/10

SOLTERWARN

BT

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SOF NUMBER 3618

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200UT 26 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. AN M2 REACHED A  
MAXIMUM AT 0734 UT. SMALL RADIO BURSTS WERE REPORTED, BUT  
THERE WAS NO OPTICAL REPORT. THE ONLY OTHER ACTIVITY THIS  
ZULU DAY HAVE BEEN SUBFLARES, TWO FROM REGION 2855 (S23E28)  
AND ONE SE EACH FROM REGIONS 2847 (N05W56), 2857 (S07E54),  
AND 2865 (N25E54). REGION 2857 (S07E47) REMAINS THE LARGEST  
MOST COMPLEX REGION ON THE DISK. MAGNETICALLY A BETA-GAMMA  
AND IS THE MOST LIKELY SUSPECT FOR THE M2 FLARE. REGIONS  
2855 AND 2865 BOTH GREW AND BECAME INCREASINGLY ERUPTIVE.

ADDITIONS TO 26/1200Z MESSAGE: NEW REGION 2866 (N16E29)  
DEVELOPED ON THE DISK AND PRESENTLY DISPLAYS A D-TYPE SPOT  
GROUP. SUB-FLARES HAVE OCCURRED IN REGIONS 2855, 2857 AND  
2848. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND  
STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. GROWTH AND  
IMPROVED FLARE POTENTIAL OF REGION 2857 MAKES THIS REGION  
POTENTIALLY ACTIVE. REGION 2855 IS NOT EXPECTED TO BECOME  
ACTIVE UNLESS GROWTH CONTINUES BEYOND EXPECTATIONS. HOWEVER,  
IT IS EXPECTED TO REMAIN ERUPTIVE, GIVING NUMEROUS SUBFLARES.  
REGION 2865 SHOULD ALSO REMAIN ERUPTIVE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS  
AND IS EXPECTED TO BECOME MILDLY UNSETTLED FOR THE ENTIRE  
FORECAST PERIOD.

III. EVENT PROBABILITIES: 27 - 29 DEC

CLASS M 30/35/40

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 26 DEC 228

PREDICTED 27-29 DEC 230/234/238

90 DAY MEAN 26 DEC 216

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 DEC 06/06

ESTIMATED AFR/AP 26 DEC 06/08

PREDICTED AFR/AP 27-29 DEC 08/08 09/08 09/10

SOLTERWARN

BT