

HEUS 3 BOU 261415

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.

NOF SDF NUMBER 361A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 26 DEC 1980

I.A. 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 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.

I.B. 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 UNSETLED 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 2.15

V. GEOMAGNETIC INDICES

OBSERVED AFR 24 DEC 02 AFR/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

SOLAR/WARN

BT

HFUS-1 BOU 262200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 3618

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

I.A. 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 ZULUDAY HAVE BEEN SUBFLARES, TWO FROM REGION 2855 (S23E28) AND ONE SF 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.

I.B. 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 UNSETLED FOR THE ENTIRE FORECAST PERIOD.

III. EVENT PROBABILITIES: 27 - 29 DEC

CLASS M 30/35/40

CLASS X 01/05/05

PREDICTON 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 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