

HFUS 1 BOU 3 122.00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 243

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 31 AUG 1978

I A. SOLAR ACTIVITY HAS BEEN MODERATE. ACTIVE REGIONS 1266  
(N20E94), 1271 (N17E47) AND 1272 (S30E54) HAVE PRODUCED A NUMBER  
OF FLARES RANGING FROM CLASS C1 TO C5. A PARTICULARLY ACTIVE  
PROMINENCE WAS VISIBLE ON THE EAST LIMB AT S22. THE ACTIVITY  
WAS TYPICAL OF PROMINENCES ASSOCIATED WITH ACTIVE REGIONS, BUT  
IT IS NOT CLEAR WHETHER THE ASSOCIATION IN THIS CASE SHOULD BE  
WITH REGION 1272 OR WITH A REGION BEYOND THE SE LIMB.

I B. SOLAR ACTIVITY IS EXPECTED TO INCREASE WITH FURTHER DEVELOP-  
MENT IN THE CURRENT REGIONS AND THE POSSIBILITY OF REGIONS  
ROTATING INTO VIEW OVER THE EAST LIMB.

II. THE GEOMAGNETIC FIELD HAS CONTINUED TO BE DISTURBED TO MINOR  
STORM LEVELS. OBSERVATIONS IN HELIUM 10830 INDICATE THE CORONAL  
HOLE THAT IS THE SOURCE OF THE CURRENT DISTURBANCE SHOULD CONTINUE  
TO CAUSE ACTIVE MAGNETIC CONDITIONS FOR ANOTHER 24 HOURS BEFORE  
IT COMPLETES ITS ROTATION PAST THE EARTH.

III. EVENT PROBABILITIES 1 SEPT - 3 SEPT

CLASS M 50/60/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 AUG 137

PREDICTED 1 SEPT - 3 SEPT 145 / 150 / 155

90-DAY MEAN 31 AUG 130

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 AUG 28

ESTIMATED AFR/AP 31 AUG 31/45

PREDICTED AFR/AP 1 - 3 SEPT 25 / 25 - 15 / 25 - 10 / 20

SOLTERWARN