

PP KGMF  
DE BOU 191715Z  
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 297A ISSUED 1700Z 19 JUNE 1969

CLASS C FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. TWO SEPARATE FLARES WERE OBSERVED TOGETHER AT 19/1538Z  
AT N08E02, IMPORTANCE 1N, AND AT 19/1543Z AT S14E03, IMPORTANCE

1B. BOTH FLARES, HOWEVER, PRODUCED VERY MINOR IONOSPHERIC  
EFFECTS AND ARE BOTH CLASSIFIED AS CLASS C EVENTS. THE SPOT  
GROWTH HAS SLOWED DOWN IN THE N08E02 REGION, BUT A NEW BIPOLAR  
GROUP HAS BEEN OBSERVED TO THE SE OF THIS REGION AT N04E04.  
THE PLAGE AREA IN THIS COMPLEX IS QUITE BRIGHT AND HAS BEEN  
FLUCTUATING THROUGHOUT THE MORNING. ALL OTHER REGIONS ARE  
UNIMPRESSIVE.

B. ONLY CLASS C FLARES ARE EXPECTED. CONTINUED GROWTH AND  
INTERACTION OF THE NORTH-CENTRAL COMPLEX SHOULD BE WATCHED  
FOR INCREASING FLARE POTENTIAL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 19/1700Z ENDING 22/1700Z.

CLASS M OR GREATER 20/25/30

CLASS X 5/10/10

PROTON EVENTS 2/5/5

D. OTTAWA 10.7 CM FLUX TODAY IS 142. PREDICTED 140/138/138.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z WAS 1. KP FORECAST FOR NEXT  
24 HOURS PER KP 15.3; 2/2/2/2/2/1/1/1.

SOLTERWARN

BT

NNNNUUUV  
PP KGFF  
DE BOU 192300Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 297B ISSUED 2300Z 19 JUNE 1969  
ONLY CLASS C FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.  
A. THE REGION AT N08W02 CONTINUES TO PRODUCE SMALL CLASS C  
FLARES WITH AN IMPORTANCE IN FLARE BEING OBSERVED AT 19/1742Z.  
SLOW GROWTH IS APPARENT WITH A NEW SPOT TO THE NE OF THE LARGE  
UMBRA AT N13W03. H-ALPHA STRUCTURE IS QUITE DYNAMIC WITH A  
LONG FILAMENT ON THE EASTERN PORTION OF THE PLAGE GROUP. THE  
GEOMAGNETIC FIELD IS QUIET.  
PARTS B, C, D, REMAIN UNCHANGED FROM SDF 297A  
E. MAGNETIC A-FREDERICKSBURG FOR 18 JUNE WAS 04. FOR 19 JUNE  
ABOUT 08 PREDICTED AP FOR 20-22 JUNE, 5/10/10.  
SOLTERWARN  
BT