

KMSC  
PP KGFF  
DE BOU 271745Z  
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 397A ISSUED 1700Z 27 SEPTEMBER 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT SIX HOURS

A. THE REGION AT N08W05 PRODUCED A CLASS M FLARE (IMPORTANCE 2B) BEGINNING 27/0343Z. THE LOW FREQUENCY ROLLOFF OF THE CENTIMETRIC BURST SUGGESTS THAT THIS WAS NOT A PROTON FLARE, AND AFS-1 AND OGO DATA CONFIRM THIS. PENUMBRAL GROWTH IS APPARENT IN THE REGION AT S12E29, AND TWO NEW REGIONS ARE NOW APPARENT AT S13E63 AND S14E80. APPEARANCE OF SE LIMB SUGGESTS ADDITIONAL ACTIVITY TO COME. GEOMAGNETIC FIELD IS QUIET.

B. FURTHER CLASS M FLARES ARE EXPECTED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 27 SEPT/1700Z ENDING 29 SEPT 1700Z.

CLASS M OR GREATER        60/60/60

CLASS X                    10/10/10

PROTON EVENTS             05/05/05

D. OTTAWA 10.7 CM FLUX AT 1700Z WAS 151. PREDICTED 146/141/137.

E. N/A

F. KP ESTIMATED FOR 1200-1500Z WAS 02. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3;    2/2/2/2/2/2/2/2.

SOLTERWARN

KMSC  
PP KGFF  
DE BOU 272330Z  
THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 397B ISSUED 2300Z 27 SEPTEMBER 1969  
CLASS M FLARES ARE EXPECTED IN THE NEXT 18 HOURS.

A. ENHANCED PROTON FLUXES ARE REPORTED BY PIONEER VIII AND ATS-1,  
WITH COUNT RATES STILL INCREASING SLOWLY. RIOMETERS AT THULE HAVE  
SHOWED SLIGHT (TENTHS OF A DB) ABSORPTION. SOME PEAKS OF 4-5 DB  
WERE SEEN FOR SHORT PERIODS (LESS THAN 15 MINUTES). ALASKAN  
RIOMETERS SHOWED CONSIDERABLE ABSORPTION AT L EQUALS 6 BY NIGHT,  
WHICH MAY HAVE BEEN AURORAL, ALTHOUGH A QUIET MAGNETOMETER MAKES  
INTERPRETATION DIFFICULT. THIS EVENT IS THOUGHT TO HAVE ORIGINATED  
IN THE N08W05 REGION FROM THE FLARE DESCRIBED IN SDF 397A. THE REGION  
WAS CLASSIFIED BY MOUNT WILSON AS MAGNETICALLY GAMMA WITH INCLUDED  
DELTA GEOMETRY IN TODAY'S MEASUREMENTS. THE REGION IS UNIMPRESSIVE IN  
ITS OTHER PARAMETERS. A POSSIBLE SUDDEN COMMENCEMENT WAS OBSERVED  
27/2125Z.

B. FURTHER MAJOR EVENTS ARE NOT CONSIDERED PROBABLE, BUT CLASS M  
EVENTS MAY BE EXPECTED. THUS, CLASS M FLARES ARE EXPECTED FROM  
N05W68 AND N08W05 REGIONS. A MAGNETIC STORM IS EXPECTED.  
SECTIONS C AND D REMAIN UNCHANGED FROM SDF 397A.

E. MAGNETIC A-FREDERICKSBURG FOR 26 SEPT WAS 09. FOR 27 SEPT ABOUT  
07. PREDICTED AP FOR 28-30 SEPT 45/20/10.

BT