

ESSA/SPACE DISTURBANCE  
FORECAST CENTER

SEP 13 17 29 z68

UUV  
PP KGFF  
DE BOU 131715Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 018A ISSUED 1700Z SEPTEMBER 13 1968  
ONLY MINOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.  
A. HIGHLIGHTS FOR THE PERIOD SEPTEMBER 5-13, 1968 CLN AS WAS  
ANTICIPATED NO MAJOR FLARES OCCURRED DURING THE ABOVE PERIOD.  
THE HALF DOZEN MINOR EVENTS TAKING PLACE WERE DISTRIBUTED BETWEEN  
TWO REGION IN THE SOUTHERN HEMISPHERE. THE SPOT GROUP AT S15W33  
ON 6 SEPT. PRODUCED THREE IMPORTANCE ONE EVENTS JUST BEFORE PASSING  
OVER THE LIMB. EACH WAS WELL DEFINED AT BOTH SHORT AND LONG WAVE-  
LENGTHS. THIS RAPIDLY DECAYING REGION PASSED FROM VIEW LATE SEPT. 9.  
THE SECOND REGION OF INTEREST IS NOW CENTERED NEAR S12E30. A SLOW  
BUT STEADY INCREASE IN AREA WAS APPARENT DURING THE FIRST THREE  
DAYS THE REGION WAS VISIBLE, HOWEVER DURING THE PAST 24 HOURS NO  
SIGNIFICANT STRUCTURAL CHANGES HAVE BEEN OBSERVED. ACTIVITY ORIG-  
INATING FROM WITHIN THIS SPOT GROUP HAS PRODUCED ONLY MINOR  
GEOPHYSICAL EFFECTS. SEPT. 6-9 MARKED A PERIOD IN WHICH THE GEO-  
MAGNETIC FIELD WAS SLIGHTLY DISTURBED. THE FLUCTUATIONS IN FIELD  
INTENSITY REACHED A MAXIMUM ON SEPT 8 WITH A PLANETARY A- INDEX  
OF 28 FROM THE FREDERICKSBURG, VA. STATION.

B. FORECAST FOR THE WEEK SEPTEMBER 14-20, 1968 CLN DAILY WHITE  
LIGHT SUNSPOT DRAWINGS INDICATE THAT NO PREVIOUSLY ACTIVE LONGITUDES  
ARE DUE TO RETUN DURING THE WEEK. MOREOVER CORPUSCULAR RADIATION  
DATA FROM THE PIONEER 6 SPACECRAFT HEAVILY FAVOR DECLINING STAGES  
FROM ANY REGION THAT SHOULD APPEAR ON THE EAST LIMB DURING THIS  
PERIOD. TO DATE THE AVERAGE SIZED BIPOLAR SPOT GROUP NEAR S12E30  
HAS MUCH IN COMMON IN TERMS OF POSITION, RATE OF GROWTH, AND FLARE  
HISTORY WITH A REGION WHICH DEVELOPED THERE ONE SOLAR ROTATION AGO.  
IF THE PRESENT SPOT GROUP CONTINUES TO PARALLEL THIS EARLIER  
REGION, THEN ONLY FLARES AS LARGE AS IMPORTANCE ONE ARE EXPECTED  
AT AN AVERAGE RATE OF ONE PER DAY.

C. 28 DAY FORECAST FOR SEPTEMBER 14-OCTOBER 11, 1968 CLN THE  
CURRENT LOW LEVEL OF SOLAR ACTIVITY IS EXPECTED TO DECLINE FURTHER  
DURING THE PERIOD SEPTEMBER 14-20.

D. DAILY FORECASTS FOR SEPTEMBER 14-16 AND EXPECTED MEAN FORECAST  
FOR SEPTEMBER 17-20, 1968 CLN

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 5-5-2 /5/

IMPORTANCE THREE OR GREATER 1-1-1 /1/

PROTON EVENTS 1-1-1 /1/

OTTAWA 10.7 CM FLUX TODAY IS 149. PREDICTED 150-144-141 /133/.

BT

NNNN

NNNNUV  
PP KGFF  
DE BOU 132300Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 018B ISSUED 2300Z SEPT 13 1968  
ONLY MINOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.  
SECTIONS A B C AND D REMAIN UNCHANGED FROM SDF 018A.  
E. MAGNETIC A-FREDERICKSBURG FOR 12 SEPT WAS 16. FOR 13 SEPT ABOUT  
28. PREDICTED AP FOR 14-16 SEPT 30-25/25-20/20-15  
BT

NNNNIV