

UUU  
PP KGFF  
DE BOU 121740Z  
HERE IS THE MSG FOR REFILE PASS ALSO TO H E N V - HOUSTON

FROM SPACE DISTURRRANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 198A ISSUED 1700Z MARCH 12 1969  
CLASS M FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.  
A. FLARE ACTIVITY SINCE SDF 197B, HAS BEEN LIMITED TO OCCASIONAL  
SMALL CLASS C EVENTS. THE REGION NEAR S14E63 IS NOW BECOMING THE  
MOST INTERESTING ON THE VISIBLE DISK, HAVING AN EXTENSIVE BRIGHT  
H-PLAGE WITH CONSIDERABLE STRUCTURE. IT CONTAINS 2 SMALL SPOT  
GROUPS WHICH HAVE SHOWN NO APPRECIABLE DEVELOPMENT THUS FAR.  
HYDROGEN FEATURES INDICATE THIS REGION SHOULD DEVELOP. REPEATED  
SMALL SURGES AT EAST LIMB N10-20 PRESAGE THE RETURN OF THE LEADING  
EDGE OF A PREVIOUSLY ACTIVE (PROTON) CLUSTER OF REGIONS. THE REGIONS  
NOW CENTERED NEAR N12W73 APPEAR TO BE SIMPLIFYING, AND THE DEVELOP-  
MENT HAS APPARENTLY HALTED IN THE S08E20 REGION. ONLY SLIGHT GPOWTH  
IS EVIDENT IN THE N31E14 REGION BUT THE REGION SEEMS TO BE DEVELOPING  
AN E-W NEUTRAL LINE.

B. OCCASIONAL CLASS M EVENTS ARE EXPECTED. THE S14E63 CENTER  
APPEARS THE MOST PROMISING FOR THE NEXT SEVERAL DAYS. CONTINUED  
ACTIVITY IS ANTICIPATED FROM THE N13W73 CLUSTER PRIOR TO AND  
DURING WEST LIMB PASSAGE. FURTHER INFORMATION IS REQUIRED TO  
EVALUATE THE NE RETURNING REGION. A REGION WHICH PRODUCED IMP 2  
LOOP PROMINENCES AT WL PASSAGE IS DUE TO RETURN 3/13-14 NEAR S25  
EL.

FORECASTS FOR MARCH 13-15

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS  
CLASS M OR GREATER 60-65-70

CLASS X 5/5/5

PROTON EVENTS 60/30/10

D. OTTAWA 10.7 CM FLUX TODAY IS 140. PREDICTED 136/142/146.

E. N/A

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

BT

NNNNUUUV  
PP KGFF  
DE BOU 122315Z  
HERE IS THE MESSAGE FOR REFILE PASS TO HENV HOUSTON

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 198A ISSUED 2300Z 12 MARCH 1969  
CLASS M EVENTS ARE EXPECTED DURING THE NEXT 18 HOURS  
A. A CLASS X EVENT /IMP 2B FLARE/ OCCURRED AT 12/1734Z IN THE  
REGION APPROACHING WEST LIMB NEAR N13W70. INTENSE X-RAY AND  
RADIO NOISE EMISSION ACCOMPANIED THE FLARE AND A PROLONGED  
SEVERE OUTAGE WAS EXPERIENCED ON MANY SUNLIT HF RADIO PATHS  
/SID/. SACRAMENTO PEAK OBSERVATORY REPORTED THIS TO BE AN  
IMPORTANCE 3B FLARE WHICH WAS ALSO VISIBLE IN WHITE LIGHT.  
A CLASS M /IMP 1B/ EVENT OCCURRED IN THE SAME REGION AT 12/2002Z.  
THERE ARE SATELLITE REPORTS OF PROTONS FOLLOWING THE 12/1734Z  
FLARE, HOWEVER GROUND DETECTION IS NOT ANTICIPATED.  
B. ADDITIONAL MAJOR EVENTS ARE NOT EXPECTED FROM THE N13W70  
REGION PRIOR TO WEST LIMB PASSAGE.  
FORECASTS FOR 13-15 MARCH  
C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS  
PROTON EVENTS 20/5/2  
D. SECTIONS D AND F ARE UNCHANGED FROM SDF 198A.  
E. MAGNETIC A - FREDERICKSBURG FOR 11 MAR WAS 13. FOR 12 MAR  
ABOUT 34. PREDICTED 20/35/15.  
SOLTERWARN  
BT

NNNNV  
HAUS1 KCFE 122000Z