

NNNN1720
NNNN

KMSC
PP KGFF
DE BOU 061715Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 426A ISSUED 1700Z 26 OCT 1969
ONLY CLASS C FLARES ARE EXPECTED DURING THE NEXT 6 HOURS.
A. ONLY A FEW MINOR CLASS C FLARES HAVE BEEN OBSERVED DURING
THE PAST 18 HOURS. RAPID GROWTH IN WHITE LIGHT AND H-ALPHA
HAS OCCURRED IN THE COMPLEX REGION NEAR N18W10. ST IS CURRENTLY
AN E-TYPE SPOT GROUP WITH AN AREA OF 650 MILLIONTHS, IS
MAGNETICALLY COMPLEX, SPOTS HAVE SHOWN PROPER MOTION AND
IS VERY BRIGHT IN H-ALPHA. THE ONLY NEGATIVE FACTOR IS ITS LOW
RATE OF FLARE PRODUCTION. ALL OF REGIONS ON THE DISK ARE
STABLE. THE GEOMAGNETIC FIELD IS QUIET.
B. THE REGION AT N18W10 IS EXPECTED TO CONTINUE TO GROW AND,
THEREFORE, CLASS M ACTIVITY SHOULD OCCUR DURING THE NEXT 24-72
HOUR PERIOD.
C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 06/1700Z ENDING 09/1700Z.

CLASS M OR GREATER 40/45/50

CLASS X 05/10/10

PROTON EVENTS 05/10/10

D. OTTAWA 10.7 CM FLUX AT 1400Z IS 145. PREDICTED 142/140/140.
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

KMSC
PP KGFF
DE BOU 062300Z
THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 406B ISSUED 2300Z 06 OCT 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.

A. THE REGION AT N18W14 NOW APPEARS AS A POTENTIALLY DANGEROUS FLARE PRODUCING REGION. DURING THE PAST 6 HOURS, THE REGION HAS DYNAMICALLY CHANGED IN H-ALPHA STRUCTURE WITH ITS TWO NEUTRAL LINES BEING DISTORTED. THERE HAS ALSO BEEN AN INCREASE IN CLASS C FLARES FROM THIS REGION. PROBABLY THE MOST IMPORTANT FEATURE OF THIS REGION IS ITS VERY HOT 8.6 MM TEMPERATURE WHICH IS 1187 DEGREES K ABOUT THE AVERAGE SURFACE TEMPERATURE OF 5989 DEGREES K. THIS IS AN INCREASE OF 467 DEGREES K FROM THE PREVIOUS 24 HOURS. THE VARIOUS OTHER RADIO SOURCE MAPS INDICATE A COMPACT SOURCE WITH A GOOD GRADIENT. THIS IS A YOUNG REGION AND DOES NOT YET CONTAIN A WELL-DEVELOPED FILAMENT, BUT IS AN INFERRED BETA-GAMMA WITH A DELTA CONFIGURATION MAGNETICALLY. THE REGION AT N25E34 IS NOW BIPOLAR AND THE REGION AT N12E70 HAS ADDED SOME MORE SPOTS.

B.. THE POTENTIAL FOR A MAJOR FLARE NOW EXISTS AT N18W14 ESPECIALLY IF THE REGION CONTINUES TO DYNAMICALLY DEVELOP. CLASS M ACTIVITY IS LIKELY DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06/2300Z ENDING 09/2300Z.

CLASS M OR GREATER 50/60/70

CLASS X 20/25/30

PROTON EVENTS 20/25/30

D. OTTAWA 10.7 CM FLUX AT 1700Z WAS 143.

E. MAGNETIC A-FREDERICKSBURG FOR 05 OCT WAS 06. FOR 06 OCT ABOUT 12. PREDICTED AP FOR 07-09 OCT 6/10/10.

BT