

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 439A ISSUED 0400Z 08 NOVEMBER 1969

CLASS M FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST 11 HOURS. AN OPTICAL CLASS 1M FLARE 07/1800Z WAS OBSERVED AT N25E35. THIS FLARE WAS ACCCOMPANIED BY A CLASS 3 PLUS DSD. THE SURGE WAS NORTHERLY AND FAN SHAPED. AT 1910Z THE ATS-1 SATELLITE DETECTED A SMALL PROTON EVENT IN THE 3-20 MEV DETECTOR. SMALL ENHANCEMENT WAS ALSO PRESENT SHORTLY BEFORE 1910Z ON THE 21-70 MEV DETECTOR. NO GROUND BASED DETECTORS HAVE INDICATED ANY CHANGE AT PRESENT TIME. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. THE REGIONS PRESENTLY AT N22E31 AND N10E40 ARE BOTH CAPABLE OF PRODUCING MAJOR FLARES AND CLASS M EVENTS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 08 NOV/0400Z ENDING 11 NOV/0400Z.

CLASS M OR GREATER 70/30/90

CLASS X 20/20/20

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX 07/1700Z AND 2000Z WERE BOTH 138.

SOLTERWARN

BT

NNNN  
KMSC  
PP KGFF  
DE BOU 080400Z  
THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 439A ISSUED 0400Z 08 NOVEMBER 1969

CLASS M FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST 11 HOURS. AN OPTICAL CLASS 1 IN FLARE 07/1800Z WAS OBSERVED AT N25E35. THIS FLARE WAS ACCCOMPANIED BY A CLASS 3 PLUS DSD. THE SURGE WAS NORTHERLY AND FAN SHAPED. AT 1910Z THE ATS-1 SATELLITE DETECTED A SMALL PROTON EVENT IN THE 3-20 MEV DETECTOR. SMALL ENHANCEMENT WAS ALSO PRESENT SHORTLY BEFORE 1910Z ON THE 21-70 MEV DETECTOR. NO GROUND BASED DETECTORS HAVE INDICATED ANY CHANGE AT PRESENT TIME. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. THE REGIONS PRESENTLY AT N22E31 AND N10E40 ARE BOTH CAPABLE OF PRODUCING MAJOR FLARES AND CLASS M EVENTS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 08 NOV/0400Z ENDING 11 NOV/0400Z.

CLASS M OR GREATER 70/80/90

CLASS X 20/20/20

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX 07/1700Z AND 2000Z WERE BOTH 138.

SOLTERWARN

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 439B ISSUED 1700Z 08 NOVEMBER 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. LITTLE CHANGE HAS BEEN REPORTED IN THE ACTIVE CENTERS AT  
N23E20 AND N22E29. SLIGHT SPOT GROWTH IS REPORTED BETWEEN  
THESE GROUPS. A NEW REGION IS CROSSING EAST LIMB AT S12, WITH  
SURGES AND MINOR FLARE ACTIVITY. PROTON FLUXES NEAR EARTH ARE  
STILL SLIGHTLY ENHANCED. GEOMAGNETIC FIELD IS QUIET.

B. CLASS M FLARES ARE EXPECTED FROM N22E29 REGION.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 08/1700Z ENDING 11/1700Z NOV.

CLASS M OR GREATER 80/80/80

CLASS X 20/20/20

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY AT 1400Z WAS 134. PREDICTED  
135/135/135.

SOLTERWARN

SPAN

BT

NNNN1746

NNNN

KMSC

HAUS BOU 081750Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 439B ISSUED 1700Z 08 NOVEMBER 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. LITTLE CHANGE HAS BEEN REPORTED IN THE ACTIVE CENTERS AT  
N23E20 AND N22E29. SLIGHT SPOT GROWTH IS REPORTED BETWEEN  
THESE GROUPS. A NEW REGION IS CROSSING EAST LIMB AT S12 WITH  
SURGES AND MINOR FLARE ACTIVITY. PROTON FLUXES NEAR EARTH ARE  
STILL SLIGHTLY ENHANCED. GEOMAGNETIC FIELD IS QUIET.

B. CLASS M FLARES ARE EXPECTED FROM N22E29 REGION.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 08/1700Z ENDING 11/1700Z NOV.

CLASS M OR GREATER 80/80/80

CLASS X 20/20/20

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY AT 1400Z WAS 134. PREDICTED  
135/135/135.

SOLTERWARN

SPAN

BT