

NNNNZM
KMSC
PP KGFF
DE BOU 181730Z
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 418A ISSUED 1700Z 18 OCT 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT SIX HOURS.

A. ANOTHER X-RAY BURST OF POSSIBLE M ENERGY WAS REPORTED BEGINNING 17/2355Z. NO OPTICAL FLARE WAS REPORTED AT THAT TIME. IT MAY HAVE BEEN A CORONAL EVENT, OR ASSOCIATED WITH AN EVENT THAT WAS UNOBSERVED DUE TO LIMB PROXIMITY. THE REGION AT N09E77, WHICH WAS ASSOCIATED WITH YELLOW CORONAL EMISSION AND ENHANCED 9 CM RADIO EMISSION, NOW APPEARS TO BE A N-S BIPOLAR WITH STRONG FIELD GRADIENTS, ALTHOUGH IT IS NOT CLEAR THAT ALL OF THIS CENTER OF ACTIVITY HAS YET CLEARED EAST LIMB. ALL OTHER DISK GROUPS ARE STABLE. PROTON FLUXES NEAR EARTH ARE VERY SLIGHTLY ENHANCED. GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED. PIONEER VIII REPORTS SOLAR WIND ENHANCEMENT AND FLUCTUATING MAGNETIC FIELD TODAY.

B. CLASS M ACTIVITY AT A MODERATE RATE(ONE TO TWO PER DAY) EXPECTED FROM N09E77 REGION. REGION MAY HAVE CLASS X POTENTIAL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 OCT/1700Z ENDING 20 OCT/1700Z.

CLASS M OR GREATER 45/55/65

CLASS X 15/15/15

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUX AT 1700Z WAS 130. PREDICTED 140/150/160.

E. N/A

F. KP ESTIMATED FOR 1200-1500Z WAS 3. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3; 3/3/3/3/2/2/2/2.

SOLTERWARN

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DE BOU 182300Z

THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 418B ISSUED 2300Z 18 OCT 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.

A. A MAGNETIC DISTURBANCE STARTED WITH A SUDDEN COMMENCEMENT AT 18/2028Z. THE PROTON FLUXES NEAR EARTH ARE STILL SLIGHTLY ENHANCED. THE NEW REGION ON THE NORTH EAST LIMB HAS NOT ALL APPEARED ON THE VISIBLE DISK, THE VISIBLE PORTION APPEARS TO BE A BIPOLAR SPOT GROUP. SECTIONS B AND C REMAIN UNCHANGED FROM SDF 418A.

D. OTTAWA 10.7 CM FLUX AT 1700Z WAS 130.

E. MAGNETIC A-FREDERICKSBURG FOR 17 OCT WAS 104. FOR 18 OCT ABOUT 11. PREDICTED AP FOR 19-21 OCT 15/15/10.

EFFECTIVE 21 OCT 69, THE SPACE DISTURBANCE FORECAST CENTER WILL ISSUE TWICE DAILY FORECASTS AT 0400Z AND 1700Z. THESE TIMES REPLACE THE CURRENT ISSUE TIMES OF 1700Z AND 2300Z.

SOLTERWARN

BT