

NNNN00401

NNNNUGVXGUU

KMSC

PP KGFF

DE BOU 240400Z

HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 424A ISSUED 0400Z 23 OCT 1969

A CLASS X FLARE IS VERY LIKELY TO OCCUR DURING THE NEXT 12 HOURS.

A. NO ENERGETIC FLARES HAVE BEEN REPORTED SINCE THE LAST MESSAGE.

THE COMPLEX REGION NEAR N12E32 HAS SHOWN FURTHER GROWTH WITHIN

THE UMBRA OF ITS LEADER. MAXIMUM FIELD STRENGTH THERE IS ABOUT

2900 GAUSS ACCORDING TO THE MOST RECENT MT. WILSON MEASUREMENTS.

ALTHOUGH THE GEOMAGNETIC FIELD IS NOT DISTURBED, LOW-ENERGY

PROTONS (3-20MEV) HAVE BEEN DETECTED BY THE ATS-1 GEOSTATIONARY

SATELLITE. PROTON FLUXES WERE ENHANCED APPROXIMATELY 23 PER CENT

ABOVE BACKGROUND AT 1700Z.

B. IN EVERY RESPECT THE N12E32 APPEARS FAVORABLE FOR PRODUCING
A HIGH-ENERGY PARTICLE EVENT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 23/0400Z ENDING 26/0400Z.

CLASS M OR GREATER 100/100/100

CLASS X 50/55/60

PROTON EVENTS 50/55/60

D. OTTAWA 10.7 CM FLUX AT 23/1700Z WAS 196 AT 2000Z, 201.

REVISED PREDICTIONS FOR FLUX 207/211/212

SOLTERWARN

BT

NNNN00403

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DE BOU 241700Z

HERE IS THE MESSAGE FOR REFILE

BRUCE 424B
PLBAS 4

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 324B ISSUED 1700Z 24 OCT 1969

CLASS X FLARES ARE PROBABLE DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS INCREASED DURING THE PAST 24 HOURS IN TERMS OF NUMEROUS CLASS C FLARES WITH MOST OF THEM COMING FROM THE LARGE, COMPLEX REGION AT N12E21. PROPER MOTION HAS BEEN OBSERVED IN THE EIGHT LARGE UMBRA SPOTS IN THE LEADER. PLAGE BRIGHTENINGS HAVE BEEN ALMOST CONTINUOUS WITH THE NEUTRAL LINE BEING DISTORTED CONSIDERABLY. THE 9.1 CM RADIO MAP SHOWS A SIGNIFICANT INCREASE IN THIS REGION AND IS CURRENTLY AT 830,000 DEGREES KELVIN. THE REGIONS AT N13W02 AND S12E28 BOTH HAVE SHOWN SPOT GROWTH WITH THE LATTER SHOWING A BETTER ORGANIZED AND COMPACT PLAGE. THE GEOMAGNETIC FIELD IS QUIET.

B. ALTHOUGH THE LEADER UMBRAL SPOTS ARE BREAKING UP, THE POTENTIAL FOR A MAJOR FLARE STILL EXISTS DUE TO ITS HIGH FIELD STRENGTHS, MAGNETIC COMPLEXITY AND HIGH TEMPERATURES. IF THIS REGION DOES NOT PRODUCE A MAJOR FLARE WITHIN 36 HOURS, THE PROBABILITIES WILL BE LOWERED AS THE LEADER REGION DECAYS. CLASS M FLARES ARE EXPECTED FROM THIS REGION AND TO A LESS EXTENT FROM THE N13W01 AND S12E28 REGIONS.

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

CLASS M OR GREATER 90/90/90

CLASS X 50/40/30

PROTON EVENTS 50/40/30

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 214. PREDICTED 220/225/225.

E. MAGNETIC A-FREDERICKSBURG FOR 23 OCT WAS 04. FOR 24 OCT ABOUT 04. PREDICTED AP FOR 25-27 OCT, 08/10/10.

F. KP ESTIMATED FOR 1200-1500Z WAS 02. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3; 2/2/2/2/2/2/2/2.

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