

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 024A ISSUED 0400Z 24 JANUARY 1971

CLASS C AND CLASS M FLARES ARE ANTICIPATED DURING THE NEXT 13 HOURS.
A. A RELATIVELY LOW LEVEL OF SOLAR ACTIVITY HAS PREVAILED DURING THE PAST 11 HOURS. ONLY A FEW RELATIVELY NON-ENERGETIC SUBFLARES HAVE BEEN REPORTED. THE LEADING SPOT OF THE N19W28 REGION HAS MOVED WITHIN ONE DEGREE OF THE TRAILING SPOT OF THE N18W38 REGION, RESULTING IN A HIGH MAGNETIC FIELD GRADIENT IN THE AREA BETWEEN THESE TWO COLLIDING SUNSPOT GROUPS. DATA FROM THE MOUNT WILSON OBSERVATORY INDICATE THAT A MAGNETIC DELTA CONFIGURATION STILL EXISTS IN THE NORTHERN MID-SECTION OF THE N18W38 REGION. A NEW ACTIVE CENTER HAS CROSSED THE LIMB AT SE13. THIS NEW SOUTHEASTERN REGION HAS PRODUCED OCCASIONAL SURGE ACTIVITY DURING THE PAST DAY. OTHER REGIONS ARE RELATIVELY UN-IMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE LAST 24 HOURS.

B. THE RELATIVE LACK OF RECENT ENERGETIC ACTIVITY AND THE COLLISION OF THE N19W28 AND N18W38 REGIONS SUGGEST THAT AN ENERGETIC CLASS M OR CLASS X FLARE, POSSIBLY ACCOMPANIED BY PROTONS, MAY BE PRODUCED DURING THE NEXT 24 HOURS. OCCASIONAL CLASS C AND SMALL CLASS M FLARES ALSO MAY OCCUR DURING THE NEXT THREE DAYS IN THE REGIONS AT N11W06, S12W05, AND S13E85. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24 JAN/0400Z ENDING 27 JAN/0400Z

CLASS M OR GREATER 90/85/85

CLASS X 30/25/20

PROTON EVENTS 30/25/20

D. OTTAWA 10.7 CM FLUXES FOR 23/1700Z AND 23/2000Z WERE 189 AND 184 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 024B ISSUED 1700Z 24 JAN 1971

ONE, PERHAPS TWO, SMALL M FLARES SHOULD DEFINE A REALISTIC
UPPER BOUND ON ACTIVITY DURING THE NEXT 11 HOURS.

A. SO FAR TODAY, TWO 1B FLARES HAVE BEEN OBSERVED WITHIN THE
D-TYPE SPOT GROUP NOW ABOUT 3.5 DAYS FROM THE WL. PLAGE
BRIGHTENINGS DISTINCT FROM FLARES WERE EVIDENT THERE EARLIER
IN THE DAY. THE NEW REGION (BORN ON THE DISK NEAR WL LAST
ROTATION) JUST INSIDE THE SE LIMB HAS NOT FLARED SIGNIFICANTLY
BUT APPEARS TO POSSESS THE NECESSARY M-EVENT POTENTIAL.
OTHER REGIONS VISIBLE ARE EFFECTIVELY DORMANT. GEOMAGNETIC
CONDITONS ARE QUIET.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE
24 HOUR PERIODS BEGINNING 24 JAN/1700Z ENDING 27 JAN/1700Z.

CLASS M OR GREATER 85/85/75

CLASS X 25/20/15

PROTON EVENTS 15/20/25

D. OTTAWA 10.7 CM FLUX FOR 24/1400Z WAS 187. PREDICTED

10.7 CM FLUX FOR 25-27 JAN IS 191/187/186.

E. MAGNETIC A-FREDERICKSBURG FOR 23 JAN WAS 04. FOR 24 JAN
ABOUT 06. PREDICTED AP FOR 25-27 JAN, 12/10/06.

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