

KMSC
PP KGFF
DE BOU 290400Z
THIS MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 429A ISSUED 0400Z 29 OCT 1969

A SINGLE CLASS M FLARE IS THE MOST ENERGETIC EVENT EXPECTED DURING THE NEXT 12 HOURS.

A. ONE SMALL CLASS M EVENT (OPTICALLY A SN) HAS BEEN REPORTED SINCE THE LAST MESSAGE. THE FLARE BEGAN ABOUT 28/1030Z NEAR N10W36, WELL WITHIN THE LARGE NW CENTER. ALTHOUGH MANY OBSERVATORIES HAVE BEEN UNABLE TO OBSERVE THE DISK TODAY, WHAT REPORTS ARE AVAILABLE INDICATE THAT THIS MOST COMPLEX OF VISIBLE REGIONS HAS DECLINED ONLY SLIGHTLY. THE REMAINING SPOT GROUPS HAVE GIVEN RISE TO LITTLE SUBFLARE ACTIVITY AND ARE AS YET UNINTERESTING STRUCTURALLY.

B. THE SLOWLY EVOLVING ACTIVE REGION CENTERED NEAR N11W39 CONTINUES TO LOOK FAVORABLE MAGNETICALLY, AT 9.1CM, IN H-ALPHA, AND IN WHITE LIGHT FOR GENERATING A CLASS X FLARE AND SUBSEQUENT PARTICLE EMISSION.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 OCT/0400Z ENDING 1 NOV/0400Z.

CLASS M OR GREATER 80/80/80

CLASS X 30/25/20

PROTON EVENTS 30/25/20

D. OTTAWA 10.7 CM FLUXES AT 28/1700Z AND 2000Z WERE 192 AND 190 RESPECTIVELY.

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DE BOU 291700Z

HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 429B ISSUED 1700Z 29 OCTOBER 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. HIGHLIGHTS FOR THE PERIOD 22-29 OCTOBER 1969--

THROUGHOUT THESE PAST SEVEN DAYS, ONE OF THE MOST COMPLEX VISIBLE SPOT GROUPS OF THE CURRENT SOLAR CYCLE, MCMATH REGION 385, GRADUALLY COMPLETED ITS DEVELOPMENT. THIS LARGE, RELATIVELY ACTIVE CENTER PRODUCED SEVEN OF THE NINE CLASS M EVENTS RECORDED DURING THE WEEK. HOWEVER, NONE WERE SUFFICIENTLY ENERGETIC TO BE FOLLOWED BY PCA. AT ITS MOST THREATENING STAGE ON 25 OCTOBER, THE SPOT GROUP WAS CHARACTERIZED BY SEVERAL DELTA CONFIGURATIONS, A MAXIMUM FIELD STRENGTH OF ABOUT 2900 GAUSS, AN F/800 CLASS/AREA, AND A 23-DEGREE EXTENT IN LONGITUDE. THE MOST RECENT REPORTS INDICATE THAT MUCH OF THE INTRICATE FILAMENT NETWORK HAS DISAPPEARED WHILE THE HYDROGEN PLAGE HAS DECREASED IN ITS OVERALL BRIGHTNESS. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. FORECAST FOR THE PERIOD 30 OCTOBER-5 NOVEMBER 1969--

DURING THE REMAINING 4-4 1/2 DAYS THE LARGE N11W43 CENTER REMAINS VISIBLE, THE LIKELIHOOD FOR CLASS X FLARES SHOULD INCREASE, ESPECIALLY IF THE SPOT GROUP BEGINS TO SHOW SIGNS OF RAPID DECAY. THERE IS SOME SPACECRAFT EVIDENCE FOR THE EXISTENCE OF AN ACTIVE REGION DIAMETRICALLY OPPOSITE IN CARRINGTON LONGITUDE TO MCMATH REGION 385. THESE LONGITUDES WILL BE IN THE VICINITY OF THE EAST LIMB ON 2 NOVEMBER.

28-DAY FORECAST FOR 30 OCTOBER-26 NOVEMBER 1969--

THE NUMBER AND INTENSITY OF FLARES WILL REMAIN AT ITS PRESENT LEVEL OR SLIGHTLY HIGHER THROUGH 3 NOVEMBER. A RESURGENCE OF ACTIVITY IS EXPECTED ON OR ABOUT THE 20TH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29/1700Z ENDING 01/1700Z.

CLASS M OR GREATER 80/70/70

CLASS X 25/20/20

PROTON EVENTS 25/20/20

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 176. PREDICTED 164/151/138.

E. MAGNETIC A-FREDERICKSBURG FOR 28 OCT WAS 06. FOR 29 OCT ABOUT 05. PREDICTED AP FOR 30 OCT-1 NOV 08/10/10.

F. KP ESTIMATED FOR 1200-1500Z WAS 1. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3; 2/2/2/2/1/1/1.

SOLTERWARN

BT