NNNNUØ53Ø
NNNN
KMSC
HAUS BOU Ø9Ø53ØZ
FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 591A ISSUED Ø4ØØZ Ø9 APR 197Ø
M FLARES ARE HIGHLY PROBABLE IN THE NEXT 13 HOURS.
A. THE FOLLOWING TWO M EVENTS WERE OBSERVED DURING THE PAST 24-HOUR PERIOD CLN AN IMPORTANCE SN, START TIME Ø9/13Ø6UT, POSITION N17E19 AND AN IMPORTANCE 1N BEGINNING ABOUT Ø9/1551Z NEAR N17E55. NO SIGNIFICANT RADIO NOR OPTICAL FEATURES WERE NOTED WITH THESE SMALL ERUPTIONS. FOR ITS SIZE THE E/1ØØ REGION CENTERED ABOUT N17E5Ø HAS BEEN PRODUCING RELATIVELY LARGE X-RAY AND RADIO BURSTS IN ASSOCIATION WITH ITS FLARES. AT MESSAGE TIME ITS PLAGE IS THE BRIGHTEST ON THE DISK. FURTHERMORE ACTIVITY RECORDED DURING THE FIRST 4 HOURS OF TODAY HAS BEEN ALMOST WITHOUT EXCEPTION LOCATED THERE. THE LARGEST DISK FEATURE, AND ONE OF THE MORE INACTIVE, HAS ITS CENTER OF MASS NEAR S12EØ2. MT. WILSON MAGNETIC FIELD MEASUREMENTS, THE PROSPECT HILL 8.6MM MAP, AND STANFORD'S 9.1CM RADIO HELIOGRAMS ALL INDICATE A SLIGHT DECLINE FOR THIS IMPRESSIVE WHITE LIGHT STRUCTURE. THERE DOES NOT EXIST AS YET EVIDENCE OF MAJOR RIFTING WITHIN EITHER THE LARGE LEADER OR FOLLOWER PENUMBRAE.
B. THE TWO RAPIDLY EVOLVING REGIONS NEAR N17E5Ø AND NØ9W37 ARE CONSIDERED THE MOST LIKELY CANDIDATES FOR M-FLARE ACTIVITY IN THE NEXT 48 HOURS.
C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING Ø9 APR/Ø4ØØZ ENDING 12 APR/Ø4ØØZ.
CLASS M OR GREATER 8Ø/8Ø/8Ø
CLASS X 2Ø/2Ø/2Ø
PROTON EVENTS 1Ø/15/25
D. OTTAWA 1Ø.7CM FLUXES FOR Ø8/17ØØ AND 2ØØØZ WERE 21Ø AND 2Ø7 RESPECTIVELY.
SOLTERWARN
SPAN
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NNNN1704
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KMSC
HAUS BOU 091705Z
FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 591B ISSUED 1700Z 09 APRIL 1970
CLASS M FLARES ARE EXPECTED DURING THE NEXT ELEVEN HOURS
A. SOLAR FLARE ACTIVITY HAS BEEN MODERATELY HIGH DURING THE PAST 13 HOURS. MOST OF THE ACTIVITY HAS CONSISTED OF FREQUENT ENERGETIC SUBFLARES AND ONE-NORMAL FLARES FROM THE GROWING REGION NOW AT N17E43; THREE OF THE EVENTS FROM THAT REGION ATTAINED CLASS M X-RAY INTENSITY. THE REGION AT N17E43 APPEARS TO BE MAGNETICALLY AND STRUCTURALLY COMPLEX AND MAY CONTAIN A DELTA CONFIGURATION. THE LARGE REGION AT S12W05 HAS SHOWN AN ABSORPTION FEATURE SLIGHTLY NORTH OF THE LARGE LEADER SPOT, THOUGH NO SIGNIFICANT ACTIVITY HAS OCCURRED AT THIS SITE. THOUGH THE REGION AT S12W05 HAS PRODUCED RELATIVELY LITTLE ACTIVITY DURING THE LAST 13 HOURS, IT STILL APPEARS TO BE MAGNETICALLY COMPLEX; THIS SPOT GROUP IS CURRENTLY CLASSIFIED AS A BETA-GAMMA. THE ACTIVE REGION AT N11W08 HAS SHOWN SOME GROWTH, HAS PRODUCED A FEW SUBFLARES, AND IS APPARENTLY OF BETA-GAMMA MAGNETIC CLASSIFICATION. SPOT GROWTH ALSO HAS OCCURRED IN THE REGION AT N09W43; THIS REGION, WHICH HAS SHOWN CONSIDERABLE GROWTH IN THE PAST 24 HOURS, HAS PRODUCED OCCASIONAL SUBFLARES AND IS CLASSIFIED AS A BETA-GAMMA SPOT GROUP. THE GEOMAGNETIC FIELD HAS BEEN DISTURBED FOR THE PAST 13 HOURS.
B. CLASS M ACTIVITY IS VERY LIKELY DURING THE NEXT 24 HOURS; THE REGIONS AT N17E43, S12W05, N11W08, AND N09W43 ARE ALL CAPABLE OF PRODUCING ENERGETIC FLARES OF RELATIVELY SMALL OPTICAL AREA. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN SOMEWHAT DISTURBED.
C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 09 APRIL/1700Z ENDING 12 APRIL/1700Z.

CLASS M OR GREATER	90/90/90
CLASS X	30/30/40
PROTON EVENTS	15/20/25

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 228. PREDICTED 215/218/220.
E. MAGNETIC A-FREDERICKSBURG FOR 08 APRIL WAS 11. FOR 09 APRIL ABOUT 20. PREDICTED AP FOR 10-12 APRIL 12/10/15.
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