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HAUS BOU 140400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 626A ISSUED 0400Z 14 MAY 1970

ENERGETIC FLARES (M EVENTS) ARE EXPECTED DURING THE NEXT 13-HOUR PERIOD.

A. NO M ACTIVITY WAS RECORDED DURING THE PREVIOUS GREENWICH DAY. OF THOSE C FLARES THAT WERE OBSERVED, THE MAJORITY OCCURRED WITHIN THREE REGIONS, NAMELY THOSE NEAR N17E56, N19E15, AND S09E08. SINCE THE EASTERNMOST PORTION OF THE N17E56 CENTER HAS ONLY BEEN CLEAR OF THE LIMB A LITTLE MORE THAN 24 HOURS, IT IS NOT YET EVIDENT WHAT REAL DEVELOPMENT IS PROCEEDING THERE. YESTERDAY'S SPOT DRAWING IN BOULDER YIELDED A CLASS/AREA OF F/1190 FOR THIS GROUP, MAKING IT DEFINITELY THE LARGEST ON THE DISK. MAGNETICALLY THE REGION IS BIPOLAR WITH A MAXIMUM RADIAL FIELD STRENGTH, AS MEASURED BY MT. WILSON, OF 2700 GAUSS. THE ASSOCIATED HYDROGEN PLAGE IS BRIGHT AND CONCENTRATED OVER THE FOLLOWER. WHAT MIGHT BE CONSIDERED AS RUNNING A CLOSE SECOND TO THE GROUP DESCRIBED ABOVE IS THE APPROXIMATELY THREE-DAY OLD BIPOLAR REGION NEAR S09E08. THE NEARLY EXPLOSIVE GROWTH EXHIBITED BY THIS DISK FEATURE HAS PRODUCED A GROUP SPANNING ABOUT 10 DEGREES IN LONGITUDE, AN AREA OF ABOUT 430 MILLIONTHS, AND A STRONG ARCH-FILAMENT-SYSTEM. PLAGE IS CROSSING THE EAST LIMB NEAR N15. THIS APPROXIMATELY COINCIDES WITH THE MAXIMUM IN 5303 LINE EMISSION (FE IVX) REPORTED EARLIER. THE LONGITUDES SOON TO ROTATE INTO VIEW THERE REPRESENT THE SITE OF A PREVIOUSLY DEVELOPING REGION WHICH PASSED OVER THE WL APR 25.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 MAY/0400Z ENDING 17 MAY/0400Z.

CLASS M OR GREATER 90/90/100

CLASS X 25/30/40

PROTON EVENTS 05/05/05

D. OTTAWA 10.7CM FLUXES FOR 13/1700 AND 2000Z WERE 190 AND 191 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 626B ISSUED 1700Z 14 MAY 1970

SPORADIC CLASS-M FLARES ARE ANTICIPATED DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY HAS REMAINED AT A RELATIVELY LOW LEVEL DURING THE PAST 13 HOURS; ONLY CLASS-C FLARES HAVE BEEN REPORTED. GROWTH AND DEVELOPMENT HAVE CONTINUED IN THE REGION NOW AT S09E01, ESPECIALLY IN THE LEADERS. AN INFERRED DELTA MAGNETIC CONFIGURATION PRESENTLY EXISTS IN THE CENTRAL PORTION OF THIS SPOT GROUP, AND ANOTHER DELTA CONFIGURATION MAY EXIST NEAR THE LEADER. THIS REGION HAS CONTINUOUS PENUMBRA FROM THE LEADING EDGE ALL THE WAY BACK TO THE MORE WESTERN OF THE LARGE FOLLOWER PENUMBRAE, AND A STRONG ARCH FILAMENT STRUCTURE IS APPARENT IN H-ALPHA. THE REGION AT N17E50 HAS SHOWN NO GREAT CHANGES IN STRUCTURE, BUT A FILAMENT EXTENDING INTO THE REGION FROM THE NORTHEAST HAS BEEN ACTIVE; THIS REGION PRESENTLY APPEARS TO BE OF SIMPLE BIPOLAR MAGNETIC CONFIGURATION. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY DISTURBED.

B. SPORADIC ENERGETIC FLARE ACTIVITY IS ANTICIPATED FROM EITHER OR BOTH OF THE REGIONS AT N17E50 AND S09E01 AS DEVELOPMENT PROGRESSES. THE GEOMAGNETIC FIELD IS NOT EXPECTED TO BE SIGNIFICANTLY DISTURBED DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 MAY/1700Z ENDING 17 MAY/1700Z.

CLASS M OR GREATER 85/90/90

CLASS X 20/25/30

PROTON EVENTS 05/05/08

D. OTTAWA 10.7CM FLUX 1400Z WAS 195. PREDICTED 201/205/208.

E. MAGNETIC A-FREDERICKSBURG FOR 13 MAY WAS 06. FOR 14 MAY ABOUT 10. PREDICTED AP FOR 15-17 MAY 08/08/08.

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