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KMSC

HAUS BOU 080430Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 590A ISSUED 0400Z 08 APR 1970

ENERGETIC FLARES ARE DEFINITELY EXPECTED FROM THE S12E14 COMPLEX DURING THE NEXT 13 HOURS.

A. THERE HAS BEEN LITTLE DEVELOPMENT SINCE THE 07/1700Z MESSAGE. THE LARGE SE GROUP OF CLASS/AREA F/1040 REMAINS IMPRESSIVE IN TERMS OF ITS MAXIMUM LONGITUDINAL FIELD STRENGTH (ABOUT 3100 GAUSS) AND RADIO BRIGHTNESS TEMPERATURES AT 8.6MM AND 9.1CM WAVELENGTHS. NO SIGNIFICANT CHANGES HAVE BEEN REPORTED IN ANY OF THE OTHER 10 DISK FEATURES.

B. SEE PREVIOUS FORECAST.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 08 APR/0400Z ENDING 11 APR/0400Z

CLASS M OR GREATER 100/100/90

CLASS X 50/50/50

PROTON EVENTS 25/35/40

D. OTTAWA 10.7 CM FLUXES FOR 07/1700 AND 2000Z WERE 198 AND 216 RESPECTIVELY.

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HAUS BOU 081715Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 590B ISSUED 1700Z 08 APRIL 1970

CLASS M FLARES ARE PROBABLE DURING THE NEXT 24 HOURS

A. HIGHLIGHTS FOR THE PERIOD 01-08 APRIL 1970--

DESPITE THE AVERAGE OF TWO M FLARES/24-HOUR PERIOD THESE PAST EIGHT DAYS, THE WEEK WAS UNEVENTFUL GEOPHYSICALLY.

MCMATH REGION 669 /L ABOUT 051/ WAS THE MOST ACTIVE DURING

THE PERIOD IN ADDITION TO BEING THE LARGEST AND MOST COMPLEX

DISK FEATURE. THE SPOT GROUP FIRST APPEARED ON THE SE LIMB

02 APRIL AFTER OSTENSIBLY FLARING TWO OR THREE DAYS EARLIER.

ITS AREA HAS ABOUT DOUBLED IN THE SIX DAYS IT HAS BEEN VISIBLE.

THIS GREATLY ELONGATED SPOT GROUP IS 3 DEGREES EAST OF CM AND

HAS THE FOLLOWING CHARACTERISTICS--AN F/1040 CLASS/AREA, A

BETA-GAMMA WITH DELTA MAGNETIC CONFIGURATION, 3100 GAUSS MAXIMUM

LONGITUDINAL FIELD STRENGTH, A 25 PERCENT INCREASE ABOVE

BACKGROUND AT 8.6MM AND 84 X 10⁻⁴ DEGREES KELVIN FOR A 9.1 CM

BRIGHTNESS TEMPERATURE. CURRENTLY, HOWEVER, THIS REGION IS

SIMPLIFYING INTO A LARGE BIPOLAR SPOT GROUP WITH SCATTERED,

WEAK PLAGE. THE REGIONS AT N17E58, N10E06 HAVE BOTH SHOWN

RECENT SIGNIFICANT DEVELOPMENT, AND A NEW SPOT GROUP, ALREADY

TYPE-D, HAS FORMED AT N08W31 WITHIN THE PAST 24 HOURS. THESE

THREE REGIONS IN THE NORTHERN HEMISPHERE ARE CURRENTLY DOMINATING

DISK ACTIVITY.

B. FORECAST FOR THE WEEK 09-15 APRIL 1970--

FLARE ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL DURING THE

COMING WEEK. MCMATH REGION 669 IS NOT EXPECTED TO PRODUCE MAJOR

FLARE ACTIVITY UNLESS IT REVERSES ITS PRESENT TREND TOWARD

DECAY. SHOULD FURTHER DEVELOPMENT OCCUR, THE THREE REGIONS NOW

AT N17E58, N10E06, AND N08W31 COULD BECOME THE SITES OF CLASS-M

ACTIVITY. DISTURBED MAGNETIC CONDITIONS, BUT NOT OF STORM

PROPORTIONS, WILL MORE THAN LIKELY BEGIN 11 APRIL.

28-DAY FORECAST FOR THE PERIOD 09 APRIL-07 MAY 1970--

ANOTHER PERIOD OF ENHANCED SOLAR ACTIVITY STARTING ABOUT 29 OR

30 APRIL IS ANTICIPATED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24

HOUR PERIODS BEGINNING 08 APRIL/1700Z ENDING 11 APRIL/1700Z.

CLASS M OR GREATER 90/80/80

CLASS X 30/20/20

PROTON EVENTS 15/10/10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 202. PREDICTED 205/208/210.

E. MAGNETIC A-FREDERICKSBURG FOR 07 APR WAS 10. FOR 08 APR

ABOUT 13. PREDICTED AP FOR 09-11 APRIL 10/10/08.

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