

NNNNUU0350

NNNNUM

KMSC

HAUS BOU 150400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 597A ISSUED 0400Z 15 APRIL 1970

NO M-FLARE ACTIVITY IS ANTICIPATED DURING THE NEXT 13-HOUR PERIOD.

A. NO OUTSTANDING EVENTS HAVE BEEN OBSERVED SINCE THE 14/1700Z

MESSAGE. DISK FEATURES REMAIN STABLE IN WHITE LIGHT AND SOMEWHAT

SUBDUED IN H-ALPHA. GEOPHYSICALLY CONDITIONS ARE QUIET.

B. THE FREQUENCY OF ENERGETIC FLARES SHOULD SHARPLY DECLINE IN THE
NEXT 3 DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 15 APR/0400Z ENDING 18 APR/0400Z

CLASS M OR GREATER 60/50/40

CLASS X 10/05/05

PROTON EVENTS 10/05/05

D. OTTAWA 10.7 CM FLUXES FOR 14/1700Z AND 2000Z WERE 175 AND 174
RESPECTIVELY.

SOLTERWARN

SPAN

BT

NNNNUI1730

NNNNU

KMSC

HAUS BOU 151735Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 597B ISSUED 1700Z 15 APRIL 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOUR PERIOD

A. HIGHLIGHTS FOR THE PERIOD 08-15 APRIL 1970--

MCMATH REGION 675, CURRENTLY LOCATED NEAR N16W38, WAS THE MOST PROLIFIC PRODUCER OF GEOPHYSICALLY SIGNIFICANT ACTIVITY DURING THE PAST WEEK. THIS REGION WAS FIRST NOTICED AS A B-TYPE SPOT GROUP NEAR N17E70 ON 07 APRIL, BUT IT DEVELOPED RAPIDLY AFTER BIRTH AND HAD GROWN TO A TYPE/AREA OF E/200 BY 09 APRIL. IT PRODUCED 12 CLASS M EVENTS, 9 OF WHICH OCCURRED DURING ITS PERIOD OF RAPID GROWTH ON 08-09 APRIL. THESE EVENTS INCLUDED 2 MEDIUM-SIZED MS AT 08/1945 AND 09/0408Z AND ONE VERY LARGE M AT 08/2333Z. REGION 675 HAS BEEN RELATIVELY QUIET SINCE 11 APRIL BUT IS CURRENTLY SHOWING INDICATIONS OF SLOW REJUVENATION. MCMATH REGION 669, CURRENTLY MAKING WEST LIMB PASSAGE NEAR S10 AND THE MOST ACTIVE REGION DURING 01-08 APRIL, REMAINED THE LARGEST SINGLE DISK FEATURE DURING THE WEEK, BUT IT PRODUCED ONLY ONE ADDITIONAL MEDIUM-SIZED CLASS M EVENT AT 10/1627Z. REGION 687, NOW NEAR N17E67, PRODUCED 2 SMALL CLASS M EVENTS AS IT CROSSED EAST LIMB ON 13 APRIL BUT HAS BEEN INACTIVE SINCE. THE MOST SIGNIFICANT SINGLE EVENT OCCURRED IN REGION 670, NOW BEGINNING WEST LIMB PASSAGE NEAR N12. THIS REGION WAS BORN ON THE DISK ON 04 APRIL, REACHED MAXIMUM STRUCTURAL DEVELOPMENT ON 11-12 APRIL, AND WAS APPARENTLY DECAYING SLOWLY THEREAFTER. IT PRODUCED A LARGE CLASS M EVENT AT 12/1714Z AND A SMALL X, IMP 1B, EVENT AT 15/0407Z AS IT APPROACHED WEST LIMB. THIS LATTER EVENT WAS ACCOMPANIED BY A MAJOR CENTIMETRIC RADIO BURST /NOT U-TYPE, 1300 FLUX UNITS AT 10 CM AND 3000 FLUX UNITS AT 3 CM/ INTENSE TYPE II AND MOVING TYPE IV BURSTS AT DEKAMETRIC WAVELENGTHS, AND MAJOR IONOSPHERIC DISTURBANCES. PROTON FLUXES NEAR EARTH, AS REPORTED BY ATS-1, REMAINED NEAR BACKGROUND AS OF 15/1600Z. THE GEOMAGNETIC FIELD WAS QUIET EXCEPT FOR A MINOR DISTURBANCE ON 08-09 APRIL.

B. FORECAST FOR THE WEEK OF 16-22 APRIL 1970--

FLARE ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL FOR THE NEXT 4 DAYS. THE REGIONS EXPECTED TO PRODUCE THIS ACTIVITY IN THE ORDER OF IMPORTANCE ARE N11W90, N16W38, S10W90 AND S07E48. ALTHOUGH THE FIRST TWO REGIONS WILL PASS THE LIMB TODAY THE N16W38 REGION IS EXPECTED TO PRODUCE M-FLARES UNTIL ITS LIMB PASSAGE. LOW ACTIVITY IS EXPECTED FOR THE LATTER PORTION OF THE WEEK.

28-DAY FORECAST FOR PERIOD 16 APRIL TO 14 MAY 1970--

ANOTHER PERIOD OF MODERATELY ENHANCED SOLAR ACTIVITY BEGINNING 30 APRIL IS ANTICIPATED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 15/1700Z ENDING 18/1700Z.

CLASS M OR GREATER 80/80/80

CLASS X 20/20/10

PROTON EVENTS 20/20/10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 166. PREDICTED 160/154/150.

E. MAGNETIC A-FREDERICKSBURG FOR 14 APRIL WAS 03. FOR 15 APRIL ABOUT 04. PREDICTED AP FOR 16-18 APRIL 08/08/10.

SOLTERWARN

SPAN