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KMSC

HAUS BOU 220400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 634A ISSUED 0400Z 22 MAY 1970

THE NEXT 13 HOURS SHOULD BE CHARACTERIZED BY INACTIVITY.

A. ONLY ABOUT 12 SUBFLARES OCCURRED YESTERDAY AND NONE OF THESE WERE SUFFICIENTLY ENERGETIC TO BE CLASSIFIED AS AN M. THE MOST ACTIVE SINGLE REGION HAS BEEN THE LARGE, DECAYING GROUP OEW NEAR N17W49. ITS PLAGE IS FOR THE MOST PART DIFFUSE; BRIGHT PORTIONS, HOWEVER, ARE VISIBLE NEAR THE LEADER. THE REGION NEAR N15E07 IS MUCH LESS INTENSE IN HYDROGEN LIGHT THAN IT WAS 24 HOURS AGO. OFF-BAND OBSERVATIONS INDICATE THAT THE LONG FILAMENT ASSOCIATED WITH THIS GROUP IS ACTIVE - DIFFERENT PORTIONS ARE EVIDENTLY IN DIFFERENT STATES OF MOTION. A NEW J OR H-TYPE SPOT WITH LITTLE ATTENDANT PLAGE HAS ROTATED INTO VIEW NEAR S05EL. GEOMAGNETICALLY CONDITIONS ARE QUIET.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 MAY/0400Z ENDING 25/0400Z.

CLASS M OR GREATER 50/50/40

CLASS X 05/05/02

PROTON EVENTS 08/08/04

D. OTTAWA 10.7CM FLUXES FOR 21/1700 AND 2000Z WERE BOTH 171.

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HAUS BOU 221700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 634B ISSUED 1700Z 22 MAY 1970

ENERGETIC ACTIVITY IS ANTICIPATED FROM THE REGION AT N17W56.

A. SOLAR ACTIVITY HAS INCREASED SOMEWHAT DURING THE PAST 13 HOURS. NEAR-CLASS-M EVENTS OCCURRED AT 22/0020Z AND AT 22/0829Z FROM THE REGION AT N15W00. BOTH OF THESE EVENTS WERE CLASSIFIED AS BETWEEN SUB-BRIGHT AND ONE-BRIGHT, DEPENDING UPON THE OBSERVATORY THAT REPORTED THEM. THE LARGE REGION AT N17W56 HAS SHOWN DEVELOPMENT OF SPOTS WEST OF THE LARGE LEADER PENUMBRA; THESE NEW SPOTS APPEAR TO BE OF POLARITY OPPOSITE TO THAT OF THE LEADER, MAKING THE REGION A TENTATIVE GAMMA-TYPE. DECAY IS CONTINUING IN THE TRAILER PORTION. THIS NORTHWEST GROUP HAS SHOWN RENEWED AND INCREASINGLY FREQUENT SUBFLARE ACTIVITY, AND IT HAS PRODUCED SEVERAL DARK SURGES AND FAN-SHAPED ABSORPTION FEATURES NORTHWEST OF ITS PERIPHERY. AN INTERESTING COMBINATION IMPORTANCE THREE BRIGHT SURGE AND DARK SURGE EXTENDING BEYOND THE WEST LIMB WAS PRODUCED BY THE REGION AT N17W56 AT 22/1430Z. SOME REORGANIZATION HAS OCCURRED IN THE REGION AT S10W41, AND THE REGION AT N15W00 APPEARS CAPABLE OF MODERATE ACTIVITY IF DEVELOPMENT CONTINUES. THE GEOMAGNETIC FIELD HAS REMAINED ONLY SLIGHTLY DISTURBED.

B. IT NOW APPEARS THAT THE REGION AT N17W56 IS BECOMING ACTIVE IN THE AREA JUST NORTHWEST OF THE LEADER, AND ENERGETIC FLARES ARE ANTICIPATED FROM THAT SITE. THE REGION AT N15W00 ALSO SEEMS TO BE CAPABLE OF PRODUCING ONE OR TWO CLASS-M EVENTS DURING THE NEXT 24 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME SOMEWHAT DISTURBED IN ABOUT 30 HOURS OR SO, DUE TO ENHANCED SOLAR WIND REPORTED BY THE PIONEER VIII SATELLITE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 MAY/1700Z ENDING 25 MAY/1700Z.

CLASS M OR GREATER 75/75/70

CLASS X 05/05/02

PROTON EVENTS 08/08/04

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 167. PREDICTED 162/157/154.

E. MAGNETIC A-FREDERICKSBURG FOR 21 MAY WAS 07. FOR 22 MAY ABOUT 07. PREDICTED AP FOR 23-25 MAY, 09/12/10.

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