

NNNN0514

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KMSC

HAUS BOU 020515Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 584A ISSUED 0400Z 02 APRIL 1970

ABOUT ONE, PERHAPS TWO, M EVENTS ARE EXPECTED WITHIN THE NEXT 13 HOURS.

A. ONLY ONE FLARE'S 0.5 TO 5A FLUX EXCEEDED THE M THRESHOLD DURING THE PAST 24-HOUR PERIOD. THIS EVENT BEGAN ABOUT 01/1020Z NEAR S10E73. MOREOVER THE TOTAL NUMBER OF DISTINCT LIMB ERUPTIONS HAS BEEN EQUAL TO, IF NOT GREATER THAN, THE DISK ACTIVITY OBSERVED YESTERDAY. PRECEDED BY BSL'S, A NEW SPOT HAS ROTATED OVER THE LIMB NEAR N27; AT MESSAGE TIME IT WAS APPROXIMATELY 84 DEGREES EAST OF CM. THE GEOMAGNETIC FIELD HAS BEEN QUIET SINCE ABOUT 01/0600Z. THIS TIME ROUGHLY REPRESENTS THE END OF THE 31/0530Z STORM. ON THE OTHER HAND THE FORBUSH DECREASE MENTIONED EARLIER CONTINUES. PLASMA CLOUD SHIELDING EFFECTS CURRENTLY AMOUNT TO A 4.5 PER CENT DEPRESSION ON THE DEEP RIVER NEUTRON MONITOR.

B. RELATIVE TO WHAT WAS EXPECTED, THE SPOT GROUPS APPEARING AT THE EL WITHIN THE PAST 2 DAYS HAVE BEEN DISAPPOINTINGLY SIMPLE IN STRUCTURE AND INACTIVE. IT IS BECOMING INCREASINGLY CLEAR THAT THE NEW REGIONS ROTATING INTO VIEW MAY WELL BE DECAYING CENTERS AND NOT THE DYNAMIC SEATS OF ACTIVITY ANTICIPATED FROM RECENT SPACECRAFT DATA. M FLARES ARE MOST LIKELY FROM THE N22W74 REGION IN THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 02 APR/0400Z ENDING 05 APR/0400Z.

CLASS M OR GREATER 50/50/50

CLASS X 10/10/10

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUXES FOR 01/1700 AND 2000Z WERE BOTH 164.

CORRECTIONS TO SDF NUMBER 583B:

(1) FIFTH SENTENCE IN PART A SHOULD READ "AN APPARENTLY NEW GROUP HAS BEEN VISIBLE THESE PAST 12 DAYS AT THIS LONGITUDE AS 595, WITH ITS DISTINCTIVE CIRCULAR FILAMENT ALMOST COMPLETELY ENCLOSING IT, REACHED A MAXIMUM IN CLASS/AREA OF D/530 ON THE 26TH."

(2) LAST SENTENCE IN PART B SHOULD READ "THE NUMBER OF M AND X EVENTS SHOULD EXCEED LAST WEEK'S TOTALS OF 6 AND 3 RESPECTIVELY."

SOLTERWARN

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 584B ISSUED 1700Z 02 APRIL 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. TWO CLASS M FLARES WERE DETECTED AT 0414Z, 1B /OPT.
IMP./, N20W75, AND AT 0639Z, 1B /OPT. IMP./, N21W75. THE
REGION NEAR N05W34 HAS PRODUCED A HIGH LEVEL OF SUBFLARES
IN THE LAST 12 HOURS, BUT THE SPOT STRUCTURE HAS SHOWN
LITTLE CHANGE. A NEW BIPOLAR SET HAS EMERGED IN FRONT
OF THE LEADER GROUP LOCATED NEAR N05W23 AND SMALL POINT
BRIGHTENINGS HAVE BEEN OBSERVED. A LARGE H TYPE SPOT HAS
ROTATED ON TO DISK AT S13E80. THE GEOMAGNETIC FIELD IS QUIET.

B. MORE CLASS M FLARES ARE EXPECTED FROM THE REGION
NEAR N20W80. THE N05W22 REGION HAS A CONFIGURATION WHICH
ENHANCES THE POSSIBILITY OF A PROTON EVENT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 02 APR/1700Z ENDING 04 APR/1700Z.

CLASS M OR GREATER 80/80/80

CLASS X 30/30/30

PROTON EVENTS 15/20/20

D. OTTAWA 10.7CM FLUX AT 1400Z WAS 171. PREDICTED 175/180/180.

E. MAGNETIC A-FREDERICKSBURG FOR 01 APR WAS 04. FOR 02 APR
ABOUT 05. PREDICTED AP FOR 03-05 APR 10/10/08.

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