

KMSC

HAUS BOU 010440Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 674A ISSUED 0400Z 01 JULY 1970

ENERGETIC FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SINCE THE LAST MESSAGE ONE M FLARE HAS OCCURRED FROM THE DECAYING BETA-GAMMA REGION NEAR N22W03. THE EVENTS START TIME WAS 30/1758Z; ACCOMPANYING RADIO NOISE BURSTS WERE QUITE SMALL AND SPOTS OF NO GREATER THAN IMPORTANCE ONE WERE REPORTED. THE MOST RECENT ACTIVITY (01/0214Z) HAS BEEN A 1B FLARE WITH ATTENDANT IMPORTANCE ONE BSLS NEAR THE EL AT S09. PLAGE AND SPOTS ARE ROTATING OVER THE LIMB THERE. ON THE DISK NO IMPORTANT STRUCTURAL CHANGES HAVE BEEN OBSERVED. CONDITIONS ARE QUIET GEOMAGNETICALLY AS WELL.

B. FLARE FREQUENCY AND INTENSITY SHOULD INCREASE DURING THE NEXT TWO TO THREE DAYS. REGIONS OF INTEREST INCLUDE THE S02E23, S07E38 GROUPS AND THE APPARENTLY ACTIVE CENTER NOW CROSSING THE SE LIMB.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 01 JULY/0400Z ENDING 04 JULY/0400Z
CLASS M OR GREATER 75/85/85

CLASS X 15/25/25

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUXES FOR 30/1700Z AND 30/2000Z WERE 169 AND 176 RESPECTIVELY.

NOTE: EFFECTIVE 01 JULY 1970 THE DEFINITIONS OF CLASS C, M, AND X EVENTS READ AS FOLLOWS. PLEASE NOTE THAT THE BASIC DEFINITIONS IN TERMS OF X-RAY BURST REMAIN UNCHANGED.

CLASS C: A SOLAR EVENT NOT ASSOCIATED WITH SIGNIFICANT X-RAY EMISSION.

CLASS M: A SOLAR EVENT ACCCOMPANIED BY AN X-RAY BURST WITH PEAK FLUX GREATER THAN 0.01 ERG CM-2 SEC-1 IN THE 1-8A BAND.

CLASS X: A SOLAR EVENT ACCCOMPANIED BY AN X-RAY BURST WITH PEAK FLUX GREATER THAN 0.1 ERG CM-2 SEC-1 IN THE 1-8A BAND.

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HAUS BOU 011700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 674B ISSUED 1700Z 01 JULY 1970

CLASS-C FLARES ARE EXPECTED AND CLASS-M FLARES ARE PROBABLE
DURING THE NEXT 11 HOURS

A. ONLY ONE CLASS-M EVENT, A ONE-NORMAL FLARE AT 01/1100Z FROM
THE REGION AT N22W10, HAS BEEN REPORTED DURING THE PAST 13
HOURS. MOST OF THE RECENT DISK ACTIVITY HAS OCCURRED IN THE
REGIONS AT S07E31 AND N22W10; LITTLE ACTIVITY HAS BEEN OBSERVED
IN THE NEW REGION AT S09E77 SINCE THE ONE-BRILLIANT FLARE AT
01/0214Z. THE REGION AT S07E31, CLASSIFIED MAGNETICALLY BY THE
MT. WILSON OBSERVATORY ON JUNE 30 AS A GAMMA-TYPE WITH A DELTA
CONFIGURATION, PRESENTLY APPEARS TO POSSESS THE GREATEST FLARE
POTENTIAL OF ANY DISK REGION. THE DECAYING REGION AT N22W10 ALSO
APPEARS CAPABLE OF SPORADIC ENERGETIC ACTIVITY, AND DEVELOPMENT
SEEMS TO BE OCCURRING IN THE TRAILER PORTION OF THE REGION AT
S06W18. EARLY EVALUATION SUGGESTS THAT THREE NEW REGIONS HAVE
CROSSED THE EAST LIMB AS FOLLOWS-- A D-TYPE GROUP AT S09E77, A
D-TYPE GROUP AT N11E79, AND AN A-TYPE GROUP AT N13E79. THE
GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST
24 HOURS.

B. SPORADIC ENERGETIC ACTIVITY IS LIKELY AT THE S07E31, N22W10,
AND S06W18 SITES DURING THE NEXT 11 HOURS. THE GEOMAGNETIC FIELD
IS EXPECTED TO REMAIN RELATIVELY QUIET WITH OCCASIONAL PERIODS
OF SLIGHT DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 01 JULY/1700Z ENDING 04 JULY/1700Z.

CLASS M OR GREATER 75/80/80

CLASS X 10/10/10

PROTON EVENTS 10/10/10

D. OTTAWA 10.7CM FLUX FOR 01/1400Z WAS 172. PREDICTED 10.7CM
FLUX FOR 02-04 JULY IS 177/181/184.

E. MAGNETIC A-FREDERICKSBURG FOR 30 JUNE IS DELAYED. FOR 01 JULY
ABOUT 07. PREDICTED AP FOR 02-04 JULY IS 08/08/08.

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