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KMSC

HAUS BOU 120400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 655A ISSUED 0400Z 12 JUNE 1970

THE BETA-GAMMA SPOT GROUP NEAR N18E67 WILL VERY LIKELY BE THE SOURCE OF SMALL, ENERGETIC FLARES DURING THE NEXT 13 HOURS. A. NO M FLARES ARE ON RECORD FOR THE PAST GREENWICH DAY. THE ACTIVITY SINCE ABOUT 1600Z YESTERDAY HAS BEEN DISTRIBUTED AMONG ABOUT FOUR OF THE EIGHT SPOT GROUPS VISIBLE. THE TYPE E REGION JUST INSIDE THE NE LIMB IS RETAINING ITS BRIGHT PLAGE, PRIMARILY WITHIN THE TRAILING PORTION. IN WHITE LIGHT THIS DISK FEATURE DISPLAYS A SOMEWHAT NONCLASSICAL CONFIGURATION. MAGNETICALLY MT. WILSON OBSERVATORY INDICATES A SMALL DELTA EXISTS INSIDE ONE OF ITS LEADING PENUMBRAE. HYDROGEN PLAGE IS ROTATING OVER THE EAST LIMB NEAR SOUTH LATITUDES 04 AND 18, BUT NO SURGES ARE VISIBLE THERE. OTHER DEVELOPMENTS OF INTEREST INCLUDE THE ROW OF "SATELLITE SPOTS" THAT HAS EMERGED SOUTH OF THE N15E22 REGION AND THE ACTIVE DARK FILAMENT ASSOCIATED WITH A GROUP NEAR N17E30.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 12 JUNE/0400Z ENDING 15 JUNE/0400Z.

CLASS M OR GREATER 80/85/90

CLASS X 10/15/20

PROTON EVENTS 02/05/05

D. OTTAWA 10.7 CM FLUXES FOR 11/1700Z AND 11/2000Z WERE 164 AND 163 RESPECTIVELY.

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HAUS BOU 121700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 655B ISSUED 1700Z 12 JUNE 1970

CLASS-M FLARES ARE ANTICIPATED DURING THE NEXT 11 HOURS

A. ENERGETIC SOLAR ACTIVITY HAS INCREASED DURING THE PAST 13 HOURS.

A CLASS-M EVENT WITH TWO MAXIMA BEGAN AT ABOUT 11/2255Z, AN NEAR-

CLASS M EVENT OCCURRED AT 12/0315Z, AND A TRIPLE-PEAKED EVENT,

WITH TWO OF THE PEAKS ABOVE THE CLASS-M THRESHOLD, OCCURRED AT

12/0620Z. ALL OF THESE CLASS-M EVENTS WERE CLASSIFIED AS SUB-

NORMAL FLARES, AND ALL OF THESE FLARES WERE PRODUCED BY THE REGION

AT N19E59. AN ENERGETIC ONE-NORMAL FLARE OF STRONG CLASS-M X-RAY

CLASSIFICATION OCCURRED AT N20E66 AT 12/1436Z. THE REGION AT

N18E58 HAS BEEN PRODUCING FREQUENT ENERGETIC SMALL FLARES, APPEARS

TO CONTAIN ONE AND POSSIBLY TWO MAGNETIC DELTA CONFIGURATIONS, AND

IS STILL DEVELOPING. THIS REGION CONTAINS A LARGE HORSESHOE-SHAPED

LEADER PENUMBRA; THE MAGNETIC NEUTRAL LINE APPEARS TO RUN BETWEEN

THE ARMS OF THE HORSESHOE. THE FOLLOWER PORTION OF THIS F-TYPE SPOT

GROUP ALSO IS COMPLEX AND CONTAINS NUMEROUS SPOTS SPREAD OVER A LARGE

AREA. THE REGIONS AT N17E40, N19E20, AND N16E13 HAVE SHOWN OCCASIONAL

SUBFLARE ACTIVITY BUT HAVE NOT EXHIBITED SIGNIFICANT DEVELOPMENT.

THE REGION AT N17W08 APPEARS TO BE DECLINING IN SIZE. A SMALL A-

TYPE SPOT IS VISIBLE AT S15E74. THE REMAINDER OF THE DISK HAS

SHOWN LITTLE SIGNIFICANT ACTIVITY OR DEVELOPMENT. THE GEOMAGNETIC

FIELD HAS REMAINED QUIET DURING THE PAST 24 HOURS.

B. CLASS-M FLARES ARE EXPECTED FROM THE REGION AT N19E59; A FEW OF

THE FLARES PRODUCED BY THIS REGION DURING THE NEXT FEW DAYS ARE

LIKELY TO BE OF CLASS-X INTENSITY. NUMEROUS CLASS-C FLARES ARE

EXPECTED FROM THE NORTHEAST QUADRANT. THE GEOMAGNETIC FIELD IS

EXPECTED TO REMAIN RELATIVELY QUIET.

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

HOUR PERIODS BEGINNING 12 JUNE/1700Z ENDING 15 JUNE/1700Z.

CLASS M OR GREATER 99/99/99

CLASS X 40/45/45

PROTON EVENTS 05/08/10

D. OTTAWA 10.7CM FLUX FOR 12/1400Z WAS 165. PREDICTED 10.7CM  
FLUX FOR 13-15 JUNE IS 175/182/186.

E. MAGNETIC A-FREDERICKSBURG FOR 11 JUNE WAS 05. FOR 12 JUNE  
ABOUT 06. PREDICTED AP FOR 13-15 JUNE IS 08/08/08.

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