

NNNU0400

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HAUS BOU 290400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 611A ISSUED 0400Z 29 APR 1970

SMALL M FLARES ARE POSSIBLE DURING THE NEXT 13-HOUR PERIOD.

A. ONE FLARE OF SIGNIFICANCE HAS OCCURRED SINCE THE 28/1700Z FORECAST-AN IMPORTANCE SB BEGINNING ABOUT 28/2115Z NEAR S09E30. THE ERUPTION WAS EVIDENTLY AN INTENSE ONE AT DISCRETE LONG WAVELENGTHS FOR THE PRIMARY RESPONSE, ASIDE FROM THE VELA SATELLITE X-RAY DECTECTION, WAS ANCHORAGE'S REPORTED 10MIN-DURATION NOISE BURST ON ALL OF THE ALASKAN 30MHZ RIOMETERS. HYDROGEN-ALPHA OBSERVATIONS INDICATE THAT THE PLAGES ASSOCIATED WITH THE N09W78 AND S10E42 GROUPS ARE THE BRIGHTEST, IN THAT ORDER, ON THE DISK. GEOPHYSICALLY CONDITIONS ARE QUIET.

B. SAME AS PREVIOUS MESSAGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 APR/0400Z ENDING 02 MAY/0400Z.

CLASS M OR GREATER 40/50/50

CLASS X 05/05/05

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUXES FOR 28/1700 AND 2000Z WERE 146 AND 148 RESPECTIVELY.

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HAUS BOU 291700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 611B ISSUED 1700Z 29 APRIL 1970

CLASS M FLARES ARE EXPECTED FOR THE NEXT WEEKLY PERIOD

A. HIGHLIGHTS FOR THE PERIOD 22-29 APRIL 1970--

ALTHOUGH THE AVERAGE NUMBER OF DISK FEATURES WAS ABOUT 10 PER DAY DURING THE PAST WEEK, NO ONE GROUP DOMINATED THE ASSOCIATED FLARE ACTIVITY. ONLY FIVE CLASS M EVENTS WERE RECORDED FOR THE EIGHT DAY PERIOD. TWO OF THESE ORIGINATED WITHIN MCMATH REGION 699 WHICH WAS INCREASING IN AREA AND COMPLEXITY AT THE TIME IT ROTATED FROM VIEW FOUR DAYS AGO. TWO SMALL CLASS M EVENTS WERE OBSERVED FROM MCMATH REGION 709. THE OTHER M EVENT AT 26/1930Z WAS NOT OBSERVED OPTICALLY. CURRENTLY, THE MOST DEVELOPED AND ACTIVE SPOT GROUP IS A THREE REGION CLUSTER IN THE SE QUADRANT /MCMATH 709/. AT LEAST A PORTION OF THESE DISK FEATURES HAS BEEN VISIBLE SINCE ABOUT MIDDAY APRIL 24. HOWEVER, APPARENTLY ONLY DURING THE PAST 48 HOURS HAS MAJOR GROWTH IN WHITE LIGHT OCCURRED, AND THIS PRIMARILY WITHIN THE TRIO'S CENTRAL MEMBER. SMALL, BRIGHT HYDROGEN PLAGE TRAILS THE FIRST AND THIRD GROUPS. LAST WEEK'S MAJOR MAGNETIC DISTURBANCE ENDED SOMETIME BETWEEN 22/1500Z AND 22/1800Z; STORM DURATION WAS SLIGHTLY MORE THAN THREE DAYS. SINCE THEN, ESSENTIALLY QUIET DAY MAGNETIC CONDITIONS HAVE PREVAILED AT LOW LATITUDE OBSERVATORIES.

B. FORECAST FOR THE WEEK 30 APRIL-06 MAY 1970--

Moderate class M activity is expected during the coming week from one or more of the regions designated collectively by MCMATH as 709. An active region is expected to develop in the northern hemisphere centered near Carrington longitude 070.

28-DAY FORECAST FOR THE PERIOD 30 APRIL-28 MAY 1970--

The first two weeks in May should be characterized by above average activity.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 APRIL/1700Z ENDING 02 MAY/1700Z.

CLASS M OR GREATER 50/60/70

CLASS X 10/15/15

PROTON EVENTS 02/02/02

D. OTTAWA 10.7CM FLUX AT 1400Z WAS 158. PREDICTED 165/167/172.

E. MAGNETIC A-FREDERICKSBURG FOR 28 APRIL WAS 04. FOR 29 APRIL ABOUT 05. PREDICTED AP FOR 30 APRIL-02 MAY 05/12/08.

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