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HAUS BOU 100500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 130A ISSUED 0500Z 10 MAY 1971

CLASS C FLARES ARE EXPECTED AND CLASS M FLARES ARE PROBABLE DURING THE NEXT 24 HOURS.

A. THE REGIONS N13W40 AND N06E39 HAVE PRODUCED MOST OF THE OBSERVED ACTIVITY DURING THE PAST 24 HOURS. ALL THE FLARES HAVE BEEN NON-ENERGETIC. THE REGION N13W40 IS STILL A COMPLEX REGION BUT IT HAS CONTINUED TO DECLINE IN FLARE PRODUCTION. THE REGION N06E39 IS CLASSIFIED BY MT. WILSON AS TWO REGIONS WITH ONLY MINOR FOLLOWER SPOTS. THE GEOMAGNETIC FIELD HAS BEEN RELATIVELY QUIET SINCE 09/0600Z.

B. THE REGIONS N13W40 AND N06E39 WILL CONTINUE TO PRODUCE THE FLARE ACTIVITY. EITHER REGION IS CAPABLE OF CLASS M EVENTS DURING THE NEXT 72 HOURS. THE GEOMAGNETIC FIELD WILL REMAIN RELATIVELY QUIET WITH DISTURBANCE AGAIN PRESENT ON THE 11TH AND 12TH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 10 MAY/0000Z ENDING 12 MAY/2400Z

CLASS M OR GREATER 80/95/80

CLASS X 20/25/20

PROTON EVENTS 15/25/35

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HAUS BOU 102210

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 130B ISSUED 2200Z 10 MAY 1971

THE LIKELIHOOD OF AT LEAST ONE THRESHOLD-LEVEL M EVENT IS HIGH DURING THE NEXT 24 HOURS. AT THE SAME TIME THE BACKGROUND LEVEL OF ACTIVITY IS EXPECTED TO REMAIN NEAR ONE CLASS C FLARE PER HOUR.

A. NO ENERGETIC FLARES HAVE BEEN REPORTED SINCE THE LAST MESSAGE, AND AS A MATTER OF RECORD, THE MOST RECENT X-RAY EVENT FROM THE LARGE N13W53 (066) CENTER WAS AN M1 (SB) MORE THAN TWO DAYS AGO. IN TERMS OF THE MAJORITY OF NON-ENERGETIC FLARES RECORDED TODAY, REGION 066 WAS THEIR SOURCE. FRAGMENTATION WITHIN THE FOLLOWING PORTIONS CONTINUES IN THIS CLASS E, 930 MILLIONTHS, BIPOLAR FEATURE. A SMALL, BRIGHT PATCH OF HYDROGEN PLAGE NEAR THE LEADER'S WESTERN EDGE IS THE BRIGHTEST PORTION AT PRESENT. THE FIVE REMAINING SPOT GROUPS VISIBLE POSSESS ONLY FAINT AND SCATTERED PLAGE.

B. THE NEUTRAL LINE THROUGH THE N13W53 CENTER OF ACTIVITY IS PRIMARILY AN EAST-WEST ONE WITH NO REALLY WELL DEFINED KINKS OR OXBOWS EVIDENT. SUCH A BASICALLY UNINTERESTING DIVIDING LINE OF POLARITIES SERVES TO STRENGTHEN THE CURRENT THESIS, NAMELY THAT NO M7 OR GREATER FLARES WILL OCCUR IN THE NEXT ONE OR TWO DAYS. THE PROBABILITY OF A SMALL M EVENT DOES REMAIN HIGH, HOWEVER, SIMPLY AS A RESULT OF REGION 066'S SIZE AND EXTENT. A RECURRENT MAGNETIC DISTURBANCE IS EXPECTED TO BEGIN TOMORROW ABOUT 0900Z AND CONTINUE FOR APPROXIMATELY 48 HOURS. UNFORTUNATELY NO PIONEER SPACECRAFT DATA HAVE BEEN AVAILABLE TO SUPPORT ONE WAY OR THE OTHER THE ACTUAL EXISTENCE OF THIS INTERPLANETARY STRUCTURE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 11 MAY/0000Z ENDING 13 MAY/2400Z

CLASS M OR GREATER 75/80/95

CLASS X 15/20/35

PROTON EVENTS 15/20/35

D. OTTAWA 10.7 CM FLUXES FOR 10/1400, 1700, AND 2000Z WERE 133, 137, AND 133, RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 11-13 MAY IS 131/126/127.

E. MAGNETIC A-FREDERICKSBURG FOR 09 MAY WAS 11. FOR 10 MAY ABOUT 07. PREDICTED AP FOR 11-13 MAY, 17/22/13.

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