

NNNN

KBOU

HAUS BOU 090500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 129A ISSUED 0500Z 09 MAY 1971

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

A. SOLAR ACTIVITY HAS CONTINUED AT A MODERATELY LOW LEVEL. THE NON-ENERGETIC SUBFLARES OBSERVED HAVE BEEN FROM REGION N13W29. THIS REGION, WHICH IS CLASSIFIED BY MT. WILSON AS A BETA GAMMA, CONTAINS TWO SMALL DELTA CONFIGURATIONS IN THE TRAILER PORTION. THE REGION N13W29 IS NOT AS DYNAMIC AS IT WAS 24 HOURS AGO. THE OTHER REGIONS ARE QUIET. THE NE LIMB ACTIVITY HAS SUBSIDED. THE GEOMAGNETIC FIELD REMAINS SLIGHTLY DISTURBED.

B. THE REGION N13W29 IS CAPABLE OF PRODUCING ENERGETIC FLARES AND ONE OR TWO SUCH EVENTS ARE PROBABLE DURING THE NEXT THREE DAYS. THE GEOMAGNETIC FIELD WILL REMAIN DISTURBED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 09 MAY/0000Z ENDING 11 MAY/2400Z

CLASS M OR GREATER 85/80/80

CLASS X 25/20/20

PROTON EVENTS 30/30/30

SOLIERWARN

SPAN

BT

NNNN

KBOU

HAUS BOU 092200

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 129B ISSUED 2200Z 09 MAY 1971

AT MOST ONE CLASS M FLARE IS EXPECTED DURING THE NEXT 24 HOURS.

A. THE LARGE E TYPE SPOT GROUP CENTERED NEAR N13W38 /066/ HAS NOT PRODUCED AN ENERGETIC FLARE SINCE YESTERDAY'S M1 EVENT. THE OVERALL ACTIVITY LEVEL, I.E. THE NUMBER OF NON-ENERGETIC SUBFLARES, HAS DECLINED MARKEDLY FROM 066 IN THE LAST 24 HOURS. A MODERATELY STEEP MAGNETIC FIELD GRADIENT-A DELTA CONFIGURATION-IS PRESENT WITHIN THE NW SEGMENT OF THE NOW SPLIT FOLLOWING PENUMBRA. MOREOVER, MT. WILSON'S MAGNETIC MAP OF THE REGION INDICATES SOME REDUCTION IN THE MAXIMUM LONGITUDINAL FIELD STRENGTH FROM THE PREVIOUS DAY. REGION 073 /NOSE40/ HAS BEEN SHOWN MAGNETICALLY TO BE TWO DISTINCT A TYPE GROUPS OF LEADING POLARITY. THE HYDROGEN PLAGE CONNECTING THESE TWO DISK FEATURES HAS BEEN THE SOURCE OF SEVERAL SUBFLARES TODAY DESPITE THE FACT THAT IT APPEARS TO HAVE LOST SOME OF ITS STRUCTURE. THE RECURRENT MAGNETIC STORM WHICH BEGAN GRADUALLY 4 DAYS AGO ENDED ABOUT 09/1100Z. FOR THE RECORD THE A INDICES AT THE FREDERICKSBURG GEOMAGNETIC CENTER THESE PAST 4 DAYS HAVE RUN 35, 29, 15, AND ABOUT 09 FOR 6, 7, 8, AND 9 MAY RESPECTIVELY. EARLIER TODAY /APPROXIMATELY 0500Z/ SOME EVIDENCE OF AURORAL ABSORPTION EXISTED ALONG THE ALASKAN RIOMETER CHAIN. COSMIC NOISE ATTENUATION WAS BETWEEN 2 AND 3 DB AT MOST.

B. A RECURRENT MAGNETIC DISTURBANCE IS DUE TO BEGIN ABOUT 11/0900Z WITH EITHER A GRADUAL ONSET OR A SMALL SUDDEN COMMENCEMENT. MAGNETIC OBSERVATORIES NEAR INVARIANT LATITUDE 40 DEGREES ARE NOT EXPECTED TO EXCEED K EQUAL 6 FOR ANY 3-HOUR PERIOD DURING THE 2-DAY EXTENT OF THE "STORM". CONTINUED DECAY SHOULD CHARACTERIZE THE NW, E/990 CENTER WITH ONE OR TWO ENERGETIC FLARES /M/ EVERY OTHER DAY. THE FLARE HISTORY AND DEVELOPMENT CURVE OF REGION 066 SEEKS TO IMPLY THAT ANOTHER LARGE X-RAY EVENT WILL OCCUR LATE IN ITS DECAY PHASE. THUS ADOPTING THE ATTITUDE THAT MAJOR ACTIVITY WILL OCCUR WHEN IT IS LEAST EXPECTED PLACES THE CRITICAL PERIOD 5 DAYS AHEAD WHEN 066 IS ABOUT A DAY BEHIND THE WEST LIMB.

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

D. OTTAWA 10.7 CM FLUXES FOR 09/1400, 1700, 2000Z WERE 136, 136, AND 135 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 10-12 MAY IS 131/131/126.

E. MAGNETIC A-FREDERICKSBURG FOR 08 MAY WAS 15. FOR 09 MAY ABOUT 09. PREDICTED AP FOR 10-12 MAY, 06/17/22.

SOLTERWARN

SPAN