

KBOU

HAUS BQU 020500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 122A ISSUED 0500Z 02 MAY 1971

ONLY CLASS C ACTIVITY IS EXPECTED DURING THE NEXT 17 HOURS.

A. SOLAR ACTIVITY HAS CONTINUED AT A LOW LEVEL DURING THE PAST 7 HOURS. THE NEW REGION AT N12E88 APPEARS TO BE STABLE AND IS NOT MAGNETICALLY COMPLEX. ALL THE DISK REGIONS APPEAR QUIET AND STABLE. THE GEOMAGNETIC FIELD IS QUIET. A PERIOD OF MINOR DISTURBANCE WAS NOTED AT 02/0100-0300Z.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LOW LEVEL. THE GEOMAGNETIC FIELD WILL BE QUIET WITH SHORT PERIODS OF MINOR DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 02 MAY/0500Z ENDING 05 MAY/0500Z

CLASS M OR GREATER 10/20/20

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 01/1700Z AND 01/2000Z WERE 94 AND 92 RESPECTIVELY.

NOTE -- CHANGE IN SDF ISSUE TIMES- EFFECTIVE 01 MAY 1971, ON A TRIAL BASIS, THE SPACE ENVIRONMENT FORECAST CENTER WILL ISSUE FORECAST MESSAGES AT 0500Z AND 2200Z. THE 2200Z MESSAGE WILL CONTAIN THE PRIME FORECAST. THE 0500Z MESSAGE WILL SUMMARIZE SOLAR-GEOPHYSICAL CONDITIONS SINCE THE 2200Z MESSAGE AND REVISE THE BASIC FORECAST WHEN APPROPRIATE. PROBABILITY FORECASTS WILL BE ISSUED FOR UT DAYS INSTEAD OF 0400Z-0400Z OR 1700Z-1700Z PERIODS. THIS CHANGE IS BEING MADE TO PERMIT MORE COMPLETE ANALYSIS AND BETTER UTILIZATION OF THE DATA AVAILABLE BEFORE A FORECAST IS ISSUED AND SHOULD, IN THE LONG RUN, RESULT IN IMPROVED FORECASTS. THIS NEW POLICY IS BEING ADOPTED ON A TRIAL BASIS. IF THE NEW ISSUE TIMES AFFECT THE UTILITY OF THE FORECASTS TO YOU, EITHER FAVORABLY OR ADVERSELY, PLEASE LET US KNOW.

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HAUS BOU 022200

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 122B ISSUED 2200Z 02 MAY 1971

SCATTERED, INFREQUENT SUBFLARES OF CLASS C ENERGETICS SHOULD MARK AN UPPER LIMIT TO SOLAR ACTIVITY DURING THE NEXT 24 HOURS. A. THE FEW NON-ENERGETIC FLARES THAT HAVE OCCURRED SINCE THE LAST UPDATING MESSAGE WERE OBSERVED JUST INSIDE THE EAST LIMB NEAR N12 AND S10. A LARGER SPOT AND BRIGHTER AND MORE COMPLEX PLAGE IS ASSOCIATED WITH THE NE FEATURE. ACROSS THE DISK FIVE OTHER GROUPS ARE VISIBLE, THE LARGEST OF THESE IS A DECAYING C-TYPE REGION NEAR S04W20. IN MONOCHROMATIC LIGHT THE MOST INTERESTING FEATURE IS CENTERED ABOUT N18E02. THERE THE MAGNETIC NEUTRAL LINE, I.E. THE LOCUS OF POINTS WHERE THE LONGITUDINAL FIELD REVERSES POLARITY, TRACES OUT AN ISLAND OF ONE POLARITY AMONG SOMEWHAT SCATTERED PLAGE SEGMENTS. WHAT MIGHT BE CONSIDERED AS A LONG SUBSTORM BEGAN ABOUT 02/0100Z AND ENDED ROUGHLY EIGHT HOURS LATER. AURORAL ABSORPTION WAS EVIDENT ALONG THE ALASKAN RIOMETER CHAIN FROM 0500 TO 0900Z. THE 30 MHZ COSMIC NOISE SIGNAL WAS ATTENUATED BY NOT MUCH MORE THAN A DB DURING THE LOCAL TWILIGHT CONDITIONS. CURRENTLY BOTH HIGH AND LOW LATITUDE MAGNETOMETERS REFLECT NEAR QUIET-DAY TRACES.

B. ISOLATED MINOR ACTIVITY IS EXPECTED TO CHARACTERIZE THE TWO GROUPS ALONG THE EAST LIMB WHILE SEVERAL NON-ENERGETIC FLARES PER DAY ARE ANTICIPATED FROM THE FEATURES NEAR N18E02 AND N15E56.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 03 MAY/0000Z ENDING 05 MAY/2400Z.

CLASS M OR GREATER 20/20/25

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 02/1400, 1700, AND 2000Z WERE 99, 98, AND 98 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 03-05 MAY IS 101/102/100.

E. MAGNETIC A-FREDERICKSBURG FOR 01 MAY WAS 07. FOR 02 MAY ABOUT 16. PREDICTED AP FOR 03-05 MAY, 08/06/04.

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