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HAUS BOU 060400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 096A ISSUED 0400Z 06 APRIL 1971

CLASS C ACTIVITY IS EXPECTED DURING THE NEXT 13 HOURS.

A. DURING THE PAST 11 HOURS THE FEW NON-ENERGETIC SUBFLARES WHICH HAVE BEEN OBSERVED HAVE BEEN FROM SEVERAL DISK REGIONS. ALL THE DISK REGIONS ARE QUIET AND STABLE. THE GEOMAGNETIC FIELD IS QUIET. SLIGHT DISTURBANCES WERE NOTED BETWEEN 05/1800-2100Z AND 06/0100-0300Z.

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

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 APRIL/0400Z ENDING 09 APRIL/0400Z

CLASS M OR GREATER 30/30/30

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 05/1700Z AND 05/2000Z WERE BOTH 108.

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HAUS BOU 061745

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 096B ISSUED 1700Z 06 APRIL 1971

CLASS C FLARES, I.E. NON-ENERGETIC EVENTS, SHOULD CHARACTERIZE THE OVERALL DISK ACTIVITY.

A. AN M5 FLARE-POSITION S18W80-BEGAN ABOUT 06/0935Z FROM A DECAYING BIPOLE SPOT GROUP. THE ERUPTION WAS VISIBLE AS NEAR PARALLEL RIBBONS OF PLAGE BETWEEN THE TWO LARGE SPOTS THAT HAVE ESSENTIALLY SET THIS DISK FEATURE APART THESE PAST 14 DAYS. FLARE MATERIAL COVERED PORTIONS OF THE UMBRAE. EJECTA EXTENDED BEYOND THE SW LIMB AND APPEARED TO FALL BACK ONTO THE DISK.

HIGH ENERGY (21-70 MEV) PROTONS WERE DETECTED APPROXIMATELY 1.5 HOURS FROM THE FLARE ONSET. READINGS TAKEN NEAR 1600Z IMPLIED FLUXES OF THE ORDER OF 300 AT 21-70 MEV AND 70 WITHIN THE 5-21 MEV WINDOW. THE VELA SATELLITE REPORTED A GREATER THAN 25 MEV FLUX OF ABOUT 90 AT 1400Z. GROUND LEVEL ABSORPTION IS EVIDENT ON BOTH THE ALASKAN RIOMETER CHAIN AND AT THE THULE GEOPOLE STATION. DAYLIGHT READINGS AT THE LATTER SITE HAVE NOT EXCEEDED 1.6 DB AS OF 1630Z. THE ABSORPTION PROFILE ALONG THE ALASKAN CHAIN RANGES FROM ABOUT 3.7 DB AT BARTER ISLAND (L 8.0) TO 0.5 AT WILDWOOD (L 3.75). FROM THE FIVE OBSERVATORIES REPORTING VARIOUS DISCRETE FREQUENCY RADIO BURST DATA AN AVERAGE PEAK FLUX DENSITY SPECTRUM HAS BEEN COMPILED.

1400 MHZ	440 FLUX UNITS ABOVE BACKGROUND
2700	512
3000	584
5000	2340
8800	2400

THE AST-1 LOW ENERGY CHANNEL BEGAN INCREASING ABOUT 1620Z ABOVE THE 300 PART/CM<sup>2</sup>/SEC QUOTED EARLIER. ITS CURRENT LEVEL IS ESTIMATED TO BE NEAR 380. A NEW REGION HAS DEVELOPED NEAR N12W24. THE HYDROGEN PLAGE IN ASSOCIATION WITH THIS SPOT GROUP ALONG WITH THE N16E37 STRUCTURE MARK THE MOST INTENSE CHROMOSPHERIC FACULAE ON THE DISK. B. ADDITIONAL ENERGETIC FLARES ARE NOT EXPECTED. A MINOR MAGNETIC STORM SHOULD FOLLOW THE 06/0935Z EVENT BY ROUGHLY 50 TO 55 HOURS PLACING THE SSC SOMETIME BETWEEN 08/1100 AND 1600Z. IN ADDITION TO THIS FLARE-ASSOCIATED MAGNETIC DISTURBANCE A RECURRENT OR COROTATING HIGH-VELOCITY PROTON STREAM IS DUE TO SWEEP BY EARTH DURING THE PERIOD 08 TO 09 APRIL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 APR/1700Z ENDING 09 APR/1700Z.

CLASS M OR GREATER 40/30/30

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 06/1400Z WAS 106. PREDICTED 10.7 CM FLUX FOR 07-09 APRIL IS 104/104/101.

E. MAGNETIC A-FREDERICKSBURG FOR 05 APRIL WAS 11. FOR 06 APRIL ABOUT 11. PREDICTED AP FOR 07-09 APRIL, 07/21/34.

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