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HFUS BOU 030500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 276A ISSUED 0500Z 03 OCTOBER 1971

CLASS C ACTIVITY IS EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS CONTINUED AT A LOW LEVEL DURING THE PAST SEVEN HOURS. THE REGIONS ON THE DISK ALL APPEAR QUIET AND STABLE. THE DISTURBED CONDITIONS IN THE GEOMAGNETIC FIELD CONTINUE.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL. THE GEOMAGNETIC FIELD WILL CONTINUE TO BE DISTURBED DURING THE NEXT 36 HOURS.

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

CLASS M OR GREATER 30/30/30

CLASS X 02/02/02

PROTON EVENTS 05/05/05

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HFUS BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 276B ISSUED 2200Z 03 OCT 1971

ANOTHER M FLARE SIMILAR TO THE ONE DESCRIBED BELOW IS EXPECTED DURING THE NEXT 24 HOURS.

A. AN M8 EVENT /IMPORTANCE 2N/ OF 2.5 HOUR DURATION BEGAN 03/1329Z FROM A N14E14 POSITION WITHIN REGION 280. THIS BIPOLAR FEATURE HAS BEEN THE SCENE OF AN OSCILLATING FILAMENT SINCE YESTERDAY. THE BRIGHT PLAGE TOOK THE FORM OF TWO PARALLEL RIBBONS COVERING ABOUT 10 PERCENT OF THE LARGE LEADER'S UMBRA. THREE DISTINCT MAXIMA WERE OBSERVED-AT 1344, 1351, AND 1359Z. ON THE DEEP RIVER NEUTRON MONITOR A LESS THAN ONE PERCENT RISE ABOVE BACKGROUND WAS DISCERNABLE SOME 15 MINUTES PRIOR TO THE FIRST OPTICAL MAXIMUM. THE BASIC SIGNATURE OF THE ACCOMPANYING RADIO BURST WAS THAT OF AN INVERTED U PEAKING CLOSE TO 2700MHZ /10CM/. PEAK FLUXES REPORTED AT 10CM, AND NOT CORRECTED FOR BACKGROUND, WERE BETWEEN 1150 AND 1595 UNITS. ROUGHLY INTENSITY 2 DEKAMETRIC CONTINUUM AND A MINOR RADIO NOISE STORM WERE INITIATED BY THE FLARE. AT MESSAGE TIME THE CONTINUUM, WHICH WAS INITIALLY CONCENTRATED BETWEEN ABOUT 30 AND 80 MHZ, HAS DECAYED AT THE HIGH END, WHILE THE 184 MHZ /1.6CM/ NOISE STORM RETURNED ESSENTIALLY TO BACKGROUND SHORTLY AFTER 03/1930Z. ATIS-1'S 21 TO 70 MEV CHANNEL HAS EXHIBITED A GRADUAL RISE SINCE ABOUT 03/1600Z. THE PROTON FLUX IS CURRENTLY 4 TIMES ABOVE BACKGROUND, I.E., READING APPROXIMATELY 2 PART/CM2/SEC. THE FOUR SPOT GROUPS CURRENTLY VISIBLE, INCLUDING THE REGION THAT FLARED, HAVE CHANGED LITTLE IN THEIR OVERALL WHITE LIGHT AND MONOCHROMATIC CONFIGURATIONS SINCE YESTERDAY. THE N/S DISAPPEARING FILAMENT THREADING THROUGH REGION 280 HAS AGAIN REFORMED, AND THE SURROUNDING PLAGE REMAINS BRIGHT. GEO-MAGNETICALLY THE PAST 8 HOURS HAVE WITNESSED AN ALMOST MONOTONIC DECLINE IN THE H AND D COMPONENT FLUCTUATIONS.

B. CONDITIONS EXISTING PRIOR TO TODAY'S EVENT APPEAR TO BE REESTABLISHING WITHIN REGION 280 /N12E11/. A SECOND ISOLATED FLARE ABOUT THE SAME TIME AND POSITION FROM THIS DISK FEATURE APPEARS LIKELY TOMORROW. UNSETTLED CONDITIONS ARE EXPECTED TO CHARACTERIZE THE GEOMAGNETIC FIELD THROUGH THE 4TH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 04 OCT/0000Z ENDING 06 OCT/2400Z.

CLASS M OR GREATER 95/45/30

CLASS X 50/10/02

PROTON EVENTS 50/10/02

D. OTTAWA 10.7CM FLUXES FOR 03/1400Z, 03/1700Z AND 03/2000Z WERE NOT AVAILABLE, 117 AND 114 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 04-06 OCT IS 117/115/115.

E. MAGNETIC A-FREDERICKSBURG FOR 02 OCT WAS 21. FOR 03 OCT ABOUT 18. PREDICTED AP FOR 04-06 OCT IS 11/07/05.

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