

HFUS BOU 240500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 236A ISSUED 0500Z 24 AUGUST 1971

ONE OR TWO SMALL M EVENTS ARE EXPECTED TO OCCUR SOMETIME BEFORE 1200Z TODAY, WHILE THE SECOND HALF OF THE 24-HOUR PERIOD IS LIKELY TO BE CHARACTERIZED BY ONLY NON-ENERGETIC FLARES.

A. NO FLARES MEETING THE M CRITERIA HAVE BEEN OBSERVED SINCE THE 23/0933Z EVENT (M2, SB). ALL ACTIVITY RECORDED YESTERDAY AS WELL AS TODAY HAS ORIGINATED WITHIN THE MASSIVE REGION 235 (CENTROID LOCATED ABOUT S11W04). ALTHOUGH THE AREA OF THIS LARGE FEATURE HAS CHANGED LITTLE IN THE PAST 24 HOURS, SIGNIFICANT REARRANGEMENTS IN BOTH THE LEADING AND FOLLOWING PENUMBRAE HAVE OCCURRED. THE MOST RECENT OBSERVATIONS INDICATE POSSIBLE SIGNS OF DECAY, AS FOR EXAMPLE, (1) A SPLITTING OF THE LEADER, (2) A 20 PERCENT DECLINE IN PEAK 9.1 CM BRIGHTNESS TEMPERATURE, AND (3) A LESSENING IN INTENSITY OF THE ASSOCIATED TYPE I NOISE STORM. (AS MIGHT BE EXPECTED THE NOISE STORM SOURCE IS AN EXTENSIVE ONE EXHIBITING MUCH FINE DETAIL. THE CULGOORA RADIO SPECTROHELIOGRAPH HAS BEEN ABLE TO RESOLVE AT LEAST FOUR DISTINCT EMITTING REGIONS AT 80MHZ.) THE GEOMAGNETIC FIELD DURING THIS PERIOD HAS REMAINED QUIET.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24 AUG/0000Z ENDING 26 AUG/2400Z

CLASS M OR GREATER 90/90/90

CLASS X 20/20/20

PROTON EVENTS 20/20/20

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SDF NUMBER 236B ISSUED 2200Z 24 AUGUST 1971

CLASS M FLARE PROBABILITY DECREASING

A. THE MASSIVE SE REGION 235 /S11W14/ HAS DECREASED IN FLARE ACTIVITY YET IT CONTINUES AS A STRONG SOURCE OF SOLAR RADIO NOISE, PARTICULARLY IN THE LOWER FREQUENCIES /20 TO 200 MHZ/. IT HAS PRODUCED ONLY NON ENERGETIC SUB FLARES IN THE LAST 24 HOURS. OTHER REGIONS 233 & 238 /N14W34 & S04E21/ HAVE PRODUCED A FEW NON ENERGETIC SUB FLARES. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. EXPECT THE SE REGION TO CONTINUE ITS STRONG RADIO EMISSIONS AND ITS GRADUAL DECLINE IN FLARE ACTIVITY. BECAUSE OF ITS SIZE AND THE RECENT DEVELOPMENT OF A DELTA CONFIGURATION NEAR ITS CENTROID, MAJOR FLARES ARE STILL POSSIBLE FROM THIS REGION IN THE NEXT 3 DAYS. THE GEOMAGNETIC FIELD SHOULD BECOME LESS DISTURBED AND REMAIN QUIET UNTIL THE 28TH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 AUG/0000Z ENDING 27 AUG/2400Z.

CLASS M OR GREATER 75/75/75

CLASS X 20/20/20

PROTON EVENTS 20/20/20

D. OTTAWA 10.7 CM FLUXES FOR 24/1400Z, 24/1700Z AND 24/2000Z WERE 155, 154 AND 149 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 25-27 AUG IS 150/145/144.

E. MAGNETIC A-FREDERICKSBURG FOR 23 AUG WAS 11. FOR 24 AUG ABOUT 08 PREDICTED AP FOR 25-27 AUG, 10/07/05.

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