

HFUS 1 BOU 020600
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 183A
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 02 JULY 1974

IA. SOLAR ACTIVITY DECLINED SOMEWHAT DURING THE PAST 6 HOURS BUT THIS MAY BE PARTIALLY ATTRIBUTED TO ADVERSE WEATHER AT MOST OBSERVATORIES. AN M2 XRAY EVENT WAS REPORTED AT 012338Z THAT MAY BE ASSOCIATED WITH A MULTIPLE MAXIMUM SUBNORMAL FLARE OUT OF RGN 433 (S13E22) THAT OCCURRED FROM 012305Z UNTIL 020053Z. SPARSE REPORTS INDICATE THAT REGION 433 REMAINS BRIGHT, COMPLEX AND THREATENING. THE SPOTS ARE REPORTEDLY LARGE, DARK AND GROWING WITH SEVERAL DELTA CONFIGURATIONS PERSISTING. RGN 435 (S09W24) HAS A STRONG ACTIVE FILAMENT SYSTEM. THE REGION IS DESCRIBED AS LESS BRIGHT THAN EARLIER TODAY BUT OTHERWISE IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL FOR THE DURATION OF THIS FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED AND NO CHANGE IS EXPECTED.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN
SPAN
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HFUS 1 BOU 021400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 183B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 02 JULY 1974

IA. FREQUENT FLARE ACTIVITY HAS BEEN REPORTED IN REGION 433 (S13E17) IN THE PAST EIGHT HOURS. THE LARGEST EVENT NOTED WAS A VARIOUSLY CLASSIFIED 1B/X1 FLARE WHICH ATTAINED X-RAY MAXIMUM NEAR 0717Z. THE EVENT WAS OF LONG DURATION WITH MULTIPLE OPTICAL AND X-RAY MAXIMA REPORTED. MAJOR SHORT-WAVE FADES AND LARGE RADIO BURSTS AT VARIOUS FREQUENCIES (I.E. 370 F.U. AT 2695 MHZ) WERE ASSOCIATED. IMPORTANCE 3 DEKAMETRIC TYPE III SWEEP ACTIVITY ALSO ACCOMPANIED THE EVENT. OTHER LESSER SIZE X-RAY EVENTS WERE ALSO OBSERVED HERE. THE REGION REMAINS DYNAMIC AND COMPLEX AT THIS TIME.

IB. SOLAR ACTIVITY WILL CONTINUE AT THIS LEVEL. FREQUENT ENERGETIC ACTIVITY IS EXPECTED FROM REGION 433.

II. THE GEOMAGNETIC FIELD HAS BEEN PREDOMINANTLY UNSETLED DURING THE PAST TWELVE HOURS. THIS SAME APPROXIMATE LEVEL OF ACTIVITY IS EXPECTED THROUGHOUT THE FORECAST PERIOD.

III. NO CHANGE

IV. NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 JUN 16

ESTIMATED AFR/AP 01 JUL 09/14

PREDICTED AFR/AP 02 JUL - 04 JUL 13/15 - 15/18 - 17/21

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HFUS BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 183

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 JULY 1974

IA. SOLAR ACTIVITY CONTINUES HIGH WITH SEVERAL ENERGETIC EVENTS FROM REGION 433 (S13E11). THESE INCLUDE; AT 01/2156Z, AN M4 X-RAY EVENT WITH A 264 FU BURST AT 2695 MHZ (NO OPTICAL REPORT DUE TO WEATHER AT ALL OBSERVATORIES); AT 02/0020Z, A 0N, X-RAY CLASS M2 FLARE; AT 02/0650Z, A 1B, X-RAY CLASS X1 FLARE ACCCOMPANIED BY A 370 FU BURST AT 2695 MHZ; AT 02/0945Z, A 0N, X-RAY CLASS M1 (MEASURED BY GOES) FLARE; AT 02/1628Z, A 0N, X-RAY CLASS M1 FLARE; AND AT 02/1932Z, A 0N, X-RAY CLASS M1 FLARE. EXCEPT WHERE INDICATED, THE X RAY CLASSIFICATIONS WERE DETERMINED FROM VELA. TYPE IV CONTINUUM HAS BEEN OBSERVED AT DEKAMETRIC WAVELENGTHS THROUGH MOST OF THE DAY WITH A STRONG NOISE STORM AT 245 MHZ.

REGION 433 CONTINUES VERY COMPLEX WITH A LARGE DELTA CONFIGURATION COVERING MUCH OF THE INTERMEDIATE SPOTS. STRONG UMBRAE OF OPPOSITE POLARITIES ARE NOW VERY CLOSE IN THIS DELTA, RESULTING IN VERY HIGH MAGNETIC GRADIENTS AND A HIGH POTENTIAL OF LARGE, ENERGETIC FLARES. THIS REGION APPEARS TO BE CONTINUING TO GROW IN BOTH WHITE LIGHT AND H-ALPHA. REGION 435 (S10W34) IS NOW A MODERATE-SIZED, D-TYPE SPOT GROUP AND IS GROWING SLOWLY, BUT DOES NOT YET HAVE THE MAGNETIC COMPLEXITY USUALLY REQUIRED FOR ENERGETIC ACTIVITY.

IB. SOLAR ACTIVITY SHOULD CONTINUE HIGH WITH A GOOD CHANCE OF ADDITIONAL CLASS X EVENTS. AS THE REGION ROTATES ONTO THE WESTERN HALF OF THE DISK, THE RISK OF A PROTON EVENT WILL INCREASE SIGNIFICANTLY.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE DURING THE FIRST PORTION OF THE ZULU DAY, BUT HAS SINCE BECOME QUIET. SOMEWHAT UNSETTLED CONDITIONS CAN BE EXPECTED THROUGH THE FORECAST PERIOD, ALTHOUGH A MAJOR SOLAR FLARE COULD INDUCE A GEOMAGNETIC STORM.

III. EVENT PROBABILITIES 03 - 05 JULY

CLASS M 95/95/95

CLASS X 50/50/50

PROTON 20/30/35

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JULY 112

PREDICTED 03 - 05 JULY 115/118/120

90-DAY MEAN 02 JULY 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 JULY 10

ESTIMATED AFR/AP 02 JULY 10/18

PREDICTED AFR/AP 03 - 05 JULY 11/12 - 11/12 - 11/12

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