

KRCU

HFUS 3 ROM 101410

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 3154

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 10 NOVEMBER 1950

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO HIGH. A M1/1B BEGAN IN REGION 2779 (S11E13) AT 0304Z. THEN, FROM A C3 BACKGROUND, A M1/5B BEGAN IN REGION 2776 (N12W54) AT 0353Z. AFTER A SLIGHT DECAY, THE X-RAY FLUX ROSE TO M1.5 AT 0937Z. A VERY SLOW DECAY FOLLOWED, WITH C3 THRESHOLD CROSSED AT 1024Z. THE X-RAY FLUX WAS STILL AT C3 WHEN A M3/2B ERUPTED AT 1137Z IN REGION 2777 (S11W50). FOR THIS FLARE STRONG SHORT WAVE FADE WAS RECORDED THROUGH 22 MHZ AND ATHENS REPORTED A 520 KM BURST AT 2625 MHZ WITH MAJOR BURSTS OCCURRING IN THE CENTIMETRIC AND METRIC RANGE. REGION 2776 CONTINUES A SLOW DECAY AND LESSENING OF MAGNETIC GRADIENT. THE DELTA, HOWEVER, STILL REMAINS. SLIGHT REARRANGEMENT OF THE SUNSPOTS HAS ALSO LESSENED THE GRADIENTS IN REGION 2779. HOWEVER, THE REGION CONTAINS A COMPLEX DELTA AND NEUTRAL LINE CONFIGURATION. REGION 2772 (S12W20) STILL IS GROWING WITH A DELTA GAMMA CONFIGURATION. THE KITT PEAK MAGNETOGRAM FOR 08 NOVEMBER SHOWED ISOLATED POLES NORTH AND SOUTH OF THE LEADER SUNSPOT OF REGION 2777. THESE MAY HAVE BEEN THE TRIGGER MECHANISM FOR TODAY'S 2B FLARE. LEARMONTH OBSERVED NEW REGIONS NEAR N17E77 AND N12E56.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE TO HIGH WITH REGIONS 2776, 2779, AND 2772 CONTRIBUTING TO ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED. THE FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE THROUGH 13 NOVEMBER.

III. EVENT PROBABILITIES: 11-13 NOV

CLASS X 25/25/25

CLASS X 10/20/15

PROTON 10/30/20

PCAF YELLOW

IV. CITAWA 10.7 FLUX

OBSERVED 09 NOV 264

ESTIMATED 10 NOV 270

PREDICTED 11-13 NOV 260/250/240

20 DAY MEAN 10 NOV 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 NOV 07 APR 09 NOV 07

ESTIMATED AFR 09 NOV 07 AFR/APR 10 NOV 13/00

PREDICTED AFR/APR 11-13 NOV 17/25 13/15 14/20

SOLTERWAY

PT

HFUS 1 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 315 R

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2000 UT 10 NOVEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO HIGH. A M1/1B BEGAN IN REGION 2779 (S11E13) AT 0804Z. THEN, FROM A C8 BACKGROUND, A M1/5B BEGAN IN REGION 2776 (N12W54) AT 0853Z. AFTER A SLIGHT DECAY, THE X-RAY FLUX ROSE TO M1.5 AT 0938Z. A VERY SLOW DECAY FOLLOWED, WITH C8 THRESHOLD CROSSED AT 1024Z. THE X-RAY FLUX WAS STILL AT C5 WHEN A M8/2B ERUPTED AT 1138Z IN REGION 2777 (S11W50). FOR THIS FLARE STRONG SHORT WAVE FADE WAS RECORDED THROUGH 22 MHZ AND ATHENS REPORTED A 520 FU BURST AT 2695 MHZ WITH MAJOR BURSTS OCCURRING IN THE CENTIMETRIC AND METRIC RANGE. REGION 2776 CONTINUES A SLOW DECAY AND LESSENING OF MAGNETIC GRADIENT. THE DELTA, HOWEVER, STILL REMAINS. SLIGHT REARRANGEMENT OF THE SUNSPOTS HAS ALSO LESSENNED THE GRADIENTS IN REGION 2779. HOWEVER, THE REGION CONTAINS A COMPLEX DELTA AND NEUTRAL LINE CONFIGURATION. REGION 2782 (S19W20) STILL IS GROWING WITH A BETA GAMMA CONFIGURATION. TWO NEW REGIONS HAVE BEEN NUMBERED TODAY: 2788 (N18E72) AND 2787 (S09W09). BOTH APPEAR SIMPLE THUS FAR.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT MODERATE TO HIGH LEVELS AS THE REGIONS MENTIONED ABOVE RETAIN THEIR POTENTIAL.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE COMING 24 HOURS.

III. EVENT PROBABILITIES: 11-13 NOV

CLASS M 95/95/95

CLASS X 30/20/15

PROTON 30/30/20

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 10 NOV 271

ESTIMATED 11-13 NOV 255/248/230

90 DAY MEAN 10 NOV 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 NOV 07/07

ESTIMATED AFR/AP 10 NOV 12/11

PREDICTED AFR/AP 11-13 NOV 18/25 13/15 14/20

SOLTERWARN

BT