

HFUS 3 BOU 081400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 3134

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 08 NOVEMBER 1980

IA. SOLAR ACTIVITY REMAINED HIGH ON 07 NOVEMBER. HOWEVER, THERE HAS BEEN A REMARKABLE DOWNTURN IN BOTH SIZE AND FREQUENCY OF OCCURRENCE OF X-RAY BURSTS SO FAR THIS ZULU DAY. DURING THE PAST 24 HOURS, SIX CLASS M FLARES OCCURRED; FIVE ASSOCIATED WITH OPTICAL FLARES IN REGION 2776 (N11W27). THE LARGEST OF THESE WAS A M8/2B WITH X-RAY MAX AT 07/1739Z. A 110 FU BURST AT 2695 MHZ AND STRONG SHORT WAVE FADE ACCOMPANIED THIS FLARE. THE ONLY CLASS M EVENT TODAY WAS A M1/1B FROM REGION 2776 WITH X-RAY MAX AT 08/0718Z. MINOR CENTIMETRIC BURSTS AND MODERATE SHORT WAVE FADE ACCOMPANIED THIS FLARE. THE SUNSPOT STRUCTURE OF REGION 2776 HAS SHOWN DECAY. HOWEVER, THE REGION RETAINS ONE DELTA CONFIGURATION AND LEARMONTH REPORTS THE FIELD AND GRADIENT REMAIN STRONG. REGION 2779 (S10E40) HAS BEEN REMARKABLY FLARE QUIET DURING THE PAST 24 HOURS. THE LARGEST EVENT WAS A C9/1N WITH X-RAY MAX AT 08/0904Z. REGION 2779 HAS A DELTA CONFIGURATION AND A COMPLEX NEUTRAL LINE. THE REGION HAS BEEN MARKED BY NEAR CONTINUOUS FLARE AND BRIGHT POINT FLUCTUATIONS. PERHAPS THIS ACTIVITY HAS BEEN DISSIPATING THE ENERGY FROM REGION 2779 AND THEREBY DIMINISHING ITS FLARE ACTIVITY. REGIONS 2777 (S11W23) AND 2782 (S18E10) STILL RETAIN MIXED POLARITIES AND BETA GAMMA CONFIGURATIONS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE TO HIGH WITH REGIONS 2776 AND 2779 CAPABLE OF MAJOR FLARE PRODUCTION.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE THROUGH THE FORECAST PERIOD. A SHORT DURATION OF STRONGLY ACTIVE CONDITIONS IS STILL EXPECTED LATE ON 08 NOVEMBER IN RESPONSE TO THE X2 FLARE WHICH OCCURRED EARLY ON 07 NOVEMBER.

III. EVENT PROBABILITIES: 08-11 NOV

CLASS M 95/95/95

CLASS X 35/35/35

PROTON 35/35/35

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 07 NOV 278

ESTIMATED 08 NOV 280

PREDICTED 08-11 NOV 280/276/276

V. GEOMAGNETIC INDICES

OBSERVED AFR 06 NOV 07 AP 07 NOV 06

ESTIMATED AFR 07 NOV 08 AFR/AP 08 NOV 10/15

PREDICTED AFR/AP 08-11 NOV 20/25 10/13 18/20

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HFUS 1 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 313B

JOINT USAF/NOAA REPOST OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT, 08 NOV 1980

IA. SIGNIFICANT ACTIVITY SO FAR THIS ZULU DAY HAS BEEN FROM REGIONS 2776 (N13W34) AND 2779 (S11E32). REGION 2776 PRODUCED AN M1/1B MAX AT 08/0718Z: AN X3/2B WITH MAX AT 08/1336Z. REGION 2779 PRODUCED TWO M EVENTS: AN M2/1B THAT MAXED AT 08/1453Z AND AN M2/1B WITH MAX AT 08/2008Z.

IB. SOLAR ACTIVITY SHOULD REMAIN HIGH. REGIONS 2776 AND 2779 REMAIN COMPLEX AND 2779 IS GROWING.

II. THE GEOMAGNETIC FIELD IS QUIET TO SLIGHTLY UNSETTLED. UNSETTLED TO ACTIVE CONDITIONS COULD START EARLY ON 09 NOV.

III. EVENT PROBABILITIES: 09 - 11 NOV

CLASS M .95/95/95

CLASS X 35/35/35

PROTON 35/35/35

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 NOV 278

PREDICTED 09 - 11 NOV 280/276/276

90 DAY MEAN 08 NOV 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 NOV 08/06

ESTIMATED AFR/AP 08 NOV 08/05

PREDICTED AFR/AP 09 - 11 NOV 20/25 10/13 18/20

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