

HFUS 1 BDU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 308 R

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 UT 03 NOV 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE TODAY. M CLASS XRAY EVENTS HAVE OCCURRED THREE TIMES. AN M3/1B OCCURRED IN REGION 2776 (N12E32), MAXIMUM AT 03/0207 UT, AN M3/1B IN REGION 2773 (N03E08) MAXIMUM AT 03/0339 UT AND AN M1/2B IN REGION 2773, MAXIMUM AT 03/1401 UT. SEVERAL C CLASS XRAY EVENTS HAVE ALSO OCCURRED. SUBSTANTIAL CENTIMETRIC OUTPUT OCCURRED WITH EVENT AT 0339 UT GIVING 460 F.U. AT 245 MHZ, AND FROM A SUB-BRIGHT IN REGION 2773 AT 03/1205 UT GIVING 410 F.U. AT 245 MHZ.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS WITH REGIONS 2773, 2776 CAPABLE OF LARGE FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED. IT IS EXPECTED TO CONTINUE IN A SLIGHTLY UNSETTLED CONDITION.

III. EVENT PROBABILITIES: 04-06 NOV

CLASS M 70/70/75

CLASS X 10/10/10

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 NOV 246

PREDICTED 04-06 NOV 248/250/250

90 DAY MEAN 03 NOV 191

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 NOV 08/07

ESTIMATED AFR/AP 03 NOV 06/07

PREDICTED AFR/AP 04-06 NOV 10/10 10/10 12/14

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HFUS 3 BOU 03 14 05

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

DEF NUMBER 3084

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 03 NOV 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 2773 (N03E16) PRODUCED AN M1/1B FLARE WITH MAXIMUM AT 03/0006 UT AND AN M3/1B WITH MAXIMUM AT 0341 UT. REGION 2776 (N12E39), NOT TO BE OUTDONE BY 2773, PRODUCED AN M3/1B WITH MAXIMUM AT 0202 UT. NONE OF THE M-CLASS EVENTS WAS ACCOMPANIED BY IMPRESSIVE RADIO BURSTS OR STRONG SUDDEN IONOSPHERIC DISTURBANCES. THE MOST FREQUENTLY FLARING REGION WAS REGION 2772 (N22E09) WHICH PRODUCED NINE C-CLASS SUBFLARES. THE THREE ABOVE MENTIONED REGIONS ARE CENTERS OF ATTENTION AMONGST SOME FOURTEEN ACTIVE REGIONS ON THE SUN. ALL THREE ARE GROWING, HAVE STEEP MAGNETIC GRADIENTS (AND POSSIBLY DELTA CONFIGURATIONS). REGION 2777 (S12E43) CONTAINS STRONG ARCH FILAMENTS AND IS REPORTED TO BE GROWING RAPIDLY BUT IT HAS A LONG WAY TO GO BEFORE DEVELOPING MAJOR FLARE POTENTIAL. ALL OTHER REGIONS, ARE STABLE OR DECLINING.

IB. REGION 2772 IS DISSIPATING ITS ENERGY REGULARLY AND APPEARS TO BE DEVELOPING A MIDDLE AGED SPREAD SO ITS MAJOR FLARE PROSPECTS ARE DIMINISHING. REGION 2773 IS A GOOD PERFORMER BUT HAS NOT YET REACHED THE PROPORTIONS NEEDED TO POSE THE THREAT OF A MAJOR FLARE WITH SUBSTANTIAL GEOPHYSICAL CONSEQUENCES. REGION 2776 IS RIDING ITS TIME, BUT IT HAS A DANGEROUS LOOK ABOUT IT. IT IS A MESSY SITUATION MAGNETICALLY AND HAS AT LEAST ONE VERY STRONG SPOT (2500 GAUSS). THUS, 2773 AND 2776 SHOULD BE EXPECTED TO BE ACTION LEADERS. REGION 2773 SHOULD FLARE NOW AND THEN WITH X-RAYS OCCASIONALLY REACHING M-CLASS LEVELS. REGION 2776 MAJOR FLARE POTENTIAL SHOULD VARY IN INVERSE PROPORTION TO ITS FLARE RATE.

II. THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 04-06 NOV 1980

CLASS M 70/70/75

CLASS X 10/10/10

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 NOV 238

ESTIMATED 03 NOV 245

PREDICTED 04-06 NOV 250/253/251

90 DAY MEAN 03 NOV 190

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 NOV 15 AP 02 NOV 07

ESTIMATED AFR 02 NOV 06 AFR/AP 03 NOV 08/10

PREDICTED AFR/AP 04-06 NOV 10/10 10/10 12/14

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