HFUS 3 BOU 05 1400
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 310A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 05 NOV 1980
1A. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. M-CLASS EVENTS WERE PRODUCED WITH MAXIMUM TIMES AS NOTED IN REGION 2772 (N23W17) (M1/1B AT 04/1508 UT) AND NEW REGION 2779 (S16E74) (M3/SB AT 05/0838 AND M2/SB AT 1106 UT). REGIONS 2776 (N12E12), 2777 (S11E16) AND 2773 (N04W11) ALSO PRODUCED THEIR SHARE OF C-CLASS SUBFLARES DURING THE PAST 24 HOURS. TAKEN IN ORDER OF THEIR PERCEIVED MAJOR FLARE THREAT THE FIVE MAJOR PERFORMERS ARE: REGION 2776 - STILL APPARENTLY INCREASING IN COMPLEXITY BUT NOW FLARING MORE REGULARLY; REGION 2779 - APPARENTLY QUITE ENERGETIC BUT NOT SUFFICIENTLY IN VIEW ON THE DISK FOR PROPER ANALYSIS: REGION 2772 - STABILIZING NOW AND ITS FLARE PRODUCTION RATE HAS DROPPED SHARPLY; REGION 2773 - HAS ALSO SHOWN A DRAMATIC REDUCTION IN ITS FLARE RATE AND MAY BE FINISHED AS AN ENERGETIC REGION; AND REGION 2777 - AFTER FURTHER GROWTH HAS NOW BEGUN TO PRODUCE STRONGER OPTICAL FLARES WITH MIDDLE C-CLASS LEVEL X-RAYS. THE OTHER TEN ACTIVE REGIONS ON THE DISK ARE, BY AND LARGE, PASSIVE.
1B. REGION 2776 STILL CONTAINS THE HIGHEST POTENTIAL FOR A MAJOR (X-CLASS) FLARE. SINCE THE REGION HAS NOW BEGUN TO FLARE MORE REGULARLY, IT MAY RELIEVE THE STRESS SEEN IN THE REGION IN A RELATIVELY PEACEFUL FASHION. REGION 2779 HAS MADE A STORMY ENTRANCE AT THE SE LIMB. AT THIS POINT IT IS IMPOSSIBLE TO ASSESS ITS POTENTIAL WITHOUT HAVING A GOOD LOOK AT IT. FOR THE TIME BEING IT SHOULD BE REGARDED WITH CAUTION. REGION 2772, 2773 AND 2779 NOW LOOK ABOUT EQUAL IN FLARE POTENTIAL (A DIMINISHING POTENTIAL) ALTHOUGH ALL THREE REGIONS SEEMED TO GET TO THIS POINT IN THEIR EVOLUTION BY DIFFERENT ROUTES. PROSPECTS ARE GOOD FOR ONE OR MORE M-CLASS EVENTS PER DAY FOR A FEW DAYS. IT IS REASONABLE TO EXPECT AT LEAST ONE X-CLASS EVENT BEFORE THE CURRENT SET OF INTERESTING ACTIVE REGIONS LEAVES THE SOLAR DISK.
II. THE GEOMAGNETIC FIELD IS CURRENTLY QUIET AND HAS BEEN MILDLY UNSETTLED DURING MOST OF THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED TO OCCASIONALLY ACTIVE FOR THE NEXT THREE DAYS.
III. EVENT PROBABILITIES: 06 - 08 NOV 1980
CLASS M 80/80/80
CLASS X 15/15/15
PROTON 10/15/15
PCAF GREEN
IV. OTTAWA 10.7 FLUX
OBSERVED 04 NOV 261
ESTIMATED 05 NOV 268
PREDICTED 06-08 NOV 273/277/278
90 DAY MEAN 05 NOV 194
V. GEOMAGNETIC A INDICES
OBSERVED AFR 03 NOV 06 AP 04 NOV 12
ESTIMATED AFR 04 NOV 13 AFR/AP 05 NOV 05/06
PREDICTED AFR/AP 06-08 NOV 10/15 16/20 13/17
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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 310B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 NOVEMBER 1980
IA. SOLAR ACTIVITY HAS BEEN HIGH DURING THE LAST PERIOD. REGION 2779 (S15E78) PRODUCED AN X4/2B FLARE AT 1355Z MAXIMUM WITH 250 FLUX UNITS AT 2695 MHZ AND 1000 FLUX UNITS AT 245 MHZ RADIO BURST. REGION 2779 FLARED EARLIER AT 0856Z MAXIMUM GIVING AN M3/SB. AT 1106Z MAXIMUM GIVING AN M2/SB. REGION 2776 (N12E05) FLARED TO M2/1B AT 1640Z MAXIMUM. AN UNASSOCIATED M1 AND NUMEROUS CLASS-C X-RAY AND SUBCLASS OPTICAL EVENTS ALSO OCCURRED DURING THE PERIOD.
IB. REGIONS 2776 AND 2779 SHOULD KEEP ACTIVITY LEVELS MODERATE TO HIGH DURING THE FORECAST PERIOD. ALSO REGIONS 2777 (S10E09), 2782 (S19E38) ARE DEVELOPING AND ARE CAPABLE OF ACTIVITY.
II. GEOMAGNETIC FIELD HAS BEEN QUIET, BUT IS EXPECTED TO RETURN TO UNSETTLED LEVELS DURING THE FORECAST PERIOD.
III. EVENT PROBABILITIES 06 NOVEMBER - 08 NOVEMBER

CLASS M	85/85/85
CLASS X	25/30/30
PROTON	15/20/20
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	05 NOVEMBER 272
PREDICTED	06-08 NOVEMBER 280/280/279
90-DAY MEAN	05 NOVEMBER 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	04 NOVEMBER 12/12
ESTIMATED AFR/AP	05 NOVEMBER 07/07
PREDICTED AFR/AP	06-08 NOVEMBER 10/15 - 16/20 - 10/12

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