

HFUS 3 BOU 261400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLORADO

SDF NUMBER 33 1A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 26 NOVEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 2802 (S08W76) PRODUCED THE MOST SIGNIFICANT OF THREE C5 X-RAY EVENTS, A 1B FLARE WITH AN ASSOCIATED TYPE II RADIO BURST AT 25/2040Z. THE OTHER ASSOCIATED C5 CAME FROM REGION 2800 (N14W03) AT 25/2110Z. A C5 AT 26/0258Z WAS UNCORRELATED, AND A C4 AT 0803Z WAS ASSOCIATED WITH A SB IN REGION 2794 (N10W70). THIS REGION IS AGAIN DEVELOPING WITH A DELTA NOW VISIBLE AND AFS REPORTED. 2794 ALONG WITH 2793 (N11W53) HAVE SEE-SAWED IN THEIR GROWTH AND DECAY SINCE THEIR ARRIVAL ON THE DISK. OTHER REGIONS WITH GROWTH REPORTED AND MINOR ACTIVITY ARE 2806 (S32E18), 2808 (N15E55) AND A NEW GROUP AT S10E02. A NEW REGION AT N23E79 HAS PRODUCED FREQUENT SURGES. A BUSHY FILAMENT CENTERED AT N08E48 IS ACTIVE WITH ERUPTION POSSIBLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT 24 HOURS. SURGING AT NE15 INDICATES OLD REGION 2776 IS NEARING EAST LIMB TRANSIT.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE SINCE 1800Z YESTERDAY WITH A SUDDEN IMPULSE OF 47 GAMMAS RECORDED AT BOULDER AT 26/0423Z. INTERMITTENT ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT TWO DAYS, FOLLOWED BY UNSETTLED CONDITIONS.

III. EVENT PROBABILITIES: 27-29 NOVEMBER

CLASS M 15/80/80

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 25 NOV 183

ESTIMATED 26 NOV 190

PREDICTED 27-29 NOV 195/205/215

90 DAY MEAN 25 NOV 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 NOV 13 AP 25 NOV 13

ESTIMATED AFR 25 NOV 15 AFR/AP 26 NOV 16/15

PREDICTED AFR/AP 27-29 NOV 15/15 15/18 10/12

NOTE - TO ALL 1200Z AND 2200Z FORECAST CUSTOMERS;

SINCE 01 OCTOBER 1980, SESC HAS BEEN ISSUING TWO FORECASTS DAILY, AT 1200Z AND 2200Z. AT A FUTURE DATE, PARTS IA AND II OF THE 2200Z REPORT MAY BE SHORTENED TO INCLUDE ONLY SIGNIFICANT CHANGES/ACTIVITY SINCE THE 1200Z REPORT. IF YOU WISH TO BE DELETED AS AN ADDRESSEE ON EITHER THE 1200Z OR 2200Z REPORT, REQUEST YOU SUBMIT YOUR REQUIREMENTS NOT LATER THAN 15 DECEMBER 1980. IF YOU HAVE WORKED OUT A STANDING PROCEDURE WITH THE SESC COMM CENTER - DISREGARD THIS NOTICE.

CIVILIAN CUSTOMERS PLEASE ADDRESS YOUR RESPONSE AND/OR COMMENTS TO KURT L. CARRAN, COMM MANAGER, SESC; MILITARY CUSTOMERS TO OFFUTT AIR FORCE BASE, NEBRASKA, ATTN AFGWC/DOO.

SOLTERWARN

BT

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 331B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 26 NOVEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST OF THE CLASS C X-RAY EVENTS HAVE OCCURRED IN REGION 2794 (N09W76) WHICH MAY HAVE STABILIZED AGAIN. THE EAST LIMB OF THE SUN HAS TAKEN ON AN ACTIVE APPEARANCE WITH THREE LARGE AREAS OF PLAGE ROTATING INTO VIEW. SMALL SPOT GROUPS ARE REPORTED AT N22 E70 (2809) AND S12E77 (2810). THE EXTENSIVE PLAGE CROSSING EAST LIMB AT N12 MAY BE SPOTLESS. THIS REGION WAS VERY ACTIVE ON ITS PREVIOUS DISK TRANSIT. ALL OTHER REGIONS ARE SMALL AND INACTIVE. A LARGE FILAMENT NEAR N08E48 DISAPPEARED EARLY TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO GRADUALLY INCREASE TO A MODERATE LEVEL AS THE ACTIVE PORTION OF THE SUN AGAIN TURNS TOWARD EARTH. SOLAR INDICES WILL WAVER AS STRONG REGIONS PASS OVER BOTH EAST AND WEST LIMBS. THE OVERALL TREND WILL BE UPWARD AS THE MORE ACTIVE SOLAR HEMISPHERE ROTATES INTO VIEW.

II. THE GEOMAGNETIC FIELD WAS ACTIVE ALL DAY UNTIL 1800Z. THE FIELD WILL CONTINUE UNSETTLED THROUGHOUT THE FORECAST PERIOD WITH OCCASIONAL ACTIVE PERIODS DURING THE NEXT TWO DAYS.

III. EVENT PROBABILITIES: 27-29 NOVEMBER

CLASS M 75/80/80

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 26 NOVEMBER 196

PREDICTED 27-29 NOVEMBER 203/210/215

90 DAY MEAN 26 NOVEMBER 203

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 25 NOVEMBER 17/13

ESTIMATED AFR/AP 26 NOVEMBER 15/15

PREDICTED AFR/AP 27-29 NOVEMBER 15/15 15/18 10/12

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