

HFUS 3 BOU 25 1400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 330A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 25 NOVEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ACTIVITY DURING THE PAST 24 HOURS RESTRICTED TO C-CLASS X-RAY EVENTS. THE LARGEST, A C7-1B FROM REGION 2793 (N 11W40) OCCURRED AT 24/1355Z MAXIMUM. REGION 2794 (N 10W57) WAS THE SECOND MOST ACTIVE ON THE DISK WITH OCCASIONAL SUBFLARE ACTIVITY. SLOW GROWTH CONTINUES IN REGION 2801 (N 16W69) AND 2802 (S 08W63). THE FOUR NEW REGIONS WHICH APPEARED ON THE DISK HAVE NOT SHOWN ANY SIGNIFICANT DEVELOPMENT. A LARGE SPRAY (2.2 RAD II) WAS OBSERVED AT NE 14 AT 24/1943Z WITH A MODERATE TYPE II RADIO BURST OBSERVED FROM THIS SAME AREA AT 24/2203Z AND 2307Z.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE NEXT 24 HOURS. THE 2793/2794 COMPLEX STILL RETAINS ENOUGH COMPLEXITY FOR AN ISOLATED M-CLASS EVENT. THE SPRAY/TYPE II EVENT IS PROBABLY FROM RETURNING REGION 2776 (N 12, CAR 170) WHICH IS STILL ONE DAY BEHIND THE LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED FOLLOWING A SMALL SUDDEN IMPULSE AT 24/2259Z. UNSETLED CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE REMAINDER OF THE ZULU DAY FOLLOWED BY ACTIVE CONDITIONS ON THE 26TH WHICH ARE EXPECTED TO LAST THROUGH THE 28TH OF NOVEMBER.

III. EVENT PROBABILITIES: 26 NOVEMBER - 28 NOVEMBER

CLASS M 70/75/80

CLASS X 01/05/05

PREDICTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 24 NOV 180

ESTIMATED 25 NOV 185

PREDICTED 26-28 NOV 190/195/200

90 DAY MEAN 24 NOV 203

V. GEOMAGNETIC INDICES

OBSERVED AFR 23 NOV 10 AP 24 NOV 09

ESTIMATED AFR 24 NOV 10 AFR/AP 25 NOV 08/08

PREDICTED AFR/AP 26-28 NOV 15/15 15/15 15/18

NOTE - TO ALL 1200UT AND 2200UT FORECAST CUSTOMERS:

SINCE 1 OCTOBER 1980, SESC HAS BEEN ISSUING TWO FORECASTS DAILY, AT 1200UT AND 2200UT. AT A FUTURE DATE, PARTS IA AND II OF THE 2200UT REPORT MAY BE SHORTENED TO INCLUDE ONLY SIGNIFICANT CHANGES/ACTIVITY SINCE THE 1200UT REPORT. IF YOU WISH TO BE DELETED AS AN ADDRESSEE ON EITHER THE 1200UT OR 2200UT REPORT, REQUEST YOU SUBMIT YOUR REQUIREMENTS NOT LATER THAN 15 DEC 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/D00.

SOLTERWARN

BT

HFUS 1 BOU 252300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 3308

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 NOVEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE THREE LARGEST X-RAY EVENTS WERE C5. THE C5/1B FLARE IN REGION 2802 (S08W69) AT 2041Z PRODUCED A TYPE II RADIO BURST. THIS REGION IS A SMALL AND APPARENTLY STABLE SPOT GROUP. THE C5 AT 2111Z COINCIDED WITH A SN FLARE IN SPOTLESS REGION 2800 (N14E04). THERE WAS NO OPTICAL OBSERVATION OF THE C5 EVENT AT ~2312Z. SPOT GROWTH HAS RESUMED IN REGION 2793 (N11W47) WHERE A DELTA CONFIGURATION AND BRIGHT PLAGE SIGNIFY POTENTIAL FOR ADDITIONAL CLASS M EVENTS. CONTINUOUS SURGING AT NE 15 MARKS THE RETURN OF REGION 2776, A PROLIFIC SOURCE OF FLARES ON ITS PREVIOUS DISK TRANSIT. A NEW REGION (2808) AT N15E62 IS DEVELOPING NEAR A LARGE ACTIVE FILAMENT.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE FOR THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TODAY FOLLOWING A SMALL SUDDEN IMPULSE AT 24/2259Z. ACTIVE CONDITIONS ARE EXPECTED INTERMITTENTLY THROUGH THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 26 NOVEMBER - 28 NOVEMBER

CLASS M 70/75/80

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 NOVEMBER 183

PREDICTED 26-28 NOVEMBER 190/195/200

90-DAY MEAN 25 NOVEMBER 203

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 24 NOVEMBER 13/09

ESTIMATED AFR/AP 25 NOVEMBER 14/10

PREDICTED AFR/AP 26-28 NOVEMBER 15/15 - 15/15 - 15/18

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/D00.

SOLTERWARN

BT