

HFUS 3 BOU 231410

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 328 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 23 NOVEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 2794 (N10W29) HAS BEEN THE MOST ACTIVE ON THE DISK PRODUCING FIVE SUBFLARES, BUT THE LARGEST IT COULD MANAGE WAS ONLY A C2/SN. THIS REGION CONTINUES ITS GROWTH AND NOW APPEARS TO BE REPLACING REGION 2793 (N13W14) AS THE MOST ACTIVE ON THE DISK. REGION 2793 CONTINUES ITS SLOW DECAY IN MAGNETIC COMPLEXITY AND SPOT COUNT AND AREA. REGION 2801 (N16W43) HAS EMERGED RAPIDLY WITH STRONG ARCH FILAMENTS REPORTED AND MODERATE SPOT GROWTH.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE THROUGH THE FORECAST PERIOD. INTERACTION BETWEEN REGIONS 2793 AND 2794 COULD TRIGGER A MODERATE M-CLASS EVENT. IF GROWTH IN REGION 2801 CONTINUES AT ITS PRESENT RATE, IT COULD PRODUCE AN ISOLATED M-CLASS EVENT. SURGING AT NE24 INDICATES ANOTHER REGION SHOULD BECOME VISIBLE, AND OLD REGION 2772 (N23, CAR 192) IS DUE BACK ON THE 26TH OF NOVEMBER.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET DURING THE PAST 24 HOURS. QUIET CONDITIONS SHOULD PERSIST UNTIL THE 26TH OF NOVEMBER WHEN UNSETTLED LEVELS ARE EXPECTED DUE TO RECURRENCE.

III. EVENT PROBABILITIES: 24-26 NOVEMBER

CLASS M 65/65/65

CLASS X 05/05/05

PREDICTED 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 22 NOV 176

ESTIMATED 23 NOV 175

PREDICTED 24-26 NOV 175/175/178

90 DAY MEAN 22 NOV 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 NOV 13 AP 22 NOV 07

ESTIMATED AFR 22 NOV 06 AFR/AP 23 NOV 07/10

PREDICTED AFR/AP 24-26 NOV 06/08 06/08 12/08

SOLTERWARN

BT

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 328 B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 23 NOVEMBER 1980

I A. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 2794 (N 10W29) HAS BEEN THE MOST ACTIVE ON THE DISK PRODUCING FIVE SUBFLARES, BUT THE LARGEST IT COULD MANAGE WAS ONLY A C2/SN. THIS REGION CONTINUES ITS GROWTH AND NOW APPEARS TO BE REPLACING REGION 2793 (N 13W14) AS THE MOST ACTIVE ON THE DISK. REGION 2793 CONTINUES ITS SLOW DECAY IN MAGNETIC COMPLEXITY AND SPOT COUNT AND AREA. REGION 2801 (N 16W43) HAS DECAYED AFTER A PERIOD OF RAPID DEVELOPMENT OF SMALL SPOTS. ADDITIONS TO 1200Z PART A: REGION 2793 PRODUCED A LONG-LIVED M2/1B EVENT AT 1905Z WITH STRONG TYPE II RADIO BURST BUT RELATIVELY SMALL RADIO BURSTS AT DISCRETE HIGHER FREQUENCIES. REGION 2802 (S 08W41) FORMED EARLY TODAY AND IS GROWING SLOWLY. ARCH-FILAMENT SYSTEMS IN REGIONS 2793 AND 2794 INDICATE A NEW PHASE OF GROWTH AND CONTINUED CHANCE FOR CLASS M EVENTS.

B. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE THROUGH THE FORECAST PERIOD. INTERACTION BETWEEN REGIONS 2793 AND 2794 COULD TRIGGER A MODERATE M-CLASS EVENT. SURGING AT NE 24 INDICATES ANOTHER REGION SHOULD BECOME VISIBLE, AND OLD REGION 2772 (N23, CAR 192) IS DUE BACK ON THE 24TH OF NOVEMBER.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET DURING THE PAST 24 HOURS. QUIET CONDITIONS SHOULD PERSIST UNTIL THE 25TH OF NOVEMBER WHEN UNSETTLED LEVELS ARE EXPECTED DUE TO RECURRENCE AND/OR FILAMENT ACTIVITY.

III. EVENT PROBABILITIES: 24-26 NOVEMBER

CLASS M 65/65/65

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 NOV 172

PREDICTED 24-26 NOV 175/175/178

90 DAY MEAN 23 NOV 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 NOV 07/07

ESTIMATED AFR/AP 23 NOV 08/09

PREDICTED AFR/AP 24-26 NOV 06/08 06/08 15/15

SOLTERWARN

BT