

HFUS 3 BOU 181400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 323A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 18 NOV 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. FIVE CLASS M EVENTS HAVE OCCURRED DURING THE PAST 24 HOURS, AND AN APPROXIMATELY EQUAL NUMBER OF CLASS C. REGION 2779 (S12W91) FLARED TO M5/SB AT 17/1342Z AND IS DEPARTING THE DISK IN AN APPARENTLY ACTIVE STATE. REGION 2793 (N12E54) PROVIDED AN M3/1B EVENT AT 18/0450. THIS DEVELOPING REGION THE LARGEST AFTER 2779, MAY CONTAIN A MAGNETIC DELTA, SHARES A NEUTRAL LINE WITH NEARBY NEW REGION 2794 (N10E39) AND RESPONDS SYMPATHETICALLY WITH IT. REGION 2788 (N18W31) PRODUCED AN M2/SB AT 18/1005 WITH A SMALL AMOUNT OF RADIO EMISSION. THIS REGION ERUPTS FREQUENTLY WHILE ITS STRUCTURE AND APPEARANCE CHANGES LITTLE. ANOTHER NEW REGION 2795 (S15W01) IS DEVELOPING IN CONJUNCTION WITH A SMALL ISOLATED POLE, NEWLY APPARENT IN HALPHA.

IB. SOLAR ACTIVITY SHOULD CONTINUE MODERATE. XRAY BACKGROUND IS HIGH, AND UNASSOCIATED XRAY EVENTS ARE APPEARING MORE FREQUENTLY. REGION 2776 IS A LIKELY CAUSE OF THIS, AND THE SITUATION MAY CONTINUE FOR ANOTHER DAY AT LEAST. REGIONS 2788, 2790 (N16E06), 2793 ARE LIKELY FLARE PRODUCERS AT CLASS M LEVELS. THE MORE ENERGETIC FLARES ARE MOST LIKELY FROM REGION 2793.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. IT IS EXPECTED TO REMAIN SLIGHTLY UNSETLED.

III. EVENT PROBABILITIES: 19-21 NOV

CLASS M 95/95/95

CLASS X 20/20/20

PROTON 10/10/05

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 17 NOV 189

ESTIMATED 18 NOV 180

PREDICTED 19-21 NOV 178/175/175

90 DAY MEAN 17 NOV 202

V. GEOMAGNETIC INDICES

OBSERVED AFR 16 NOV 12 AP 17 NOV 09

ESTIMATED AFR 17 NOV 11 AFR/AP 18 NOV 10/10

PREDICTED AFR/AP 19-21 NOV 10/10 10/10 10/12

SOLAR TERRAIN

BT

HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 323B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 NOVEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. SIX CLASS M EVENTS HAVE OCCURRED DURING THE PAST 24 HOURS, AND AN APPROXIMATELY EQUAL NUMBER OF CLASS C. THREE X-RAY EVENTS, AN M1 AT 0547Z, AN M1 AT 1118Z AND AN M3 AT 1452Z TODAY WERE CONFIRMED AS EMANATING FROM REGION 2779 (S14W95) BY X-RAY OBSERVATIONS ABOARD THE SOLAR MAXIMUM MISSION SATELLITE. THIS REGION HAS ROTATED BEYOND THE LIMB BUT SURGING ON THE LIMB CONTINUES. REGION 2793 (N12E48) PROVIDED AN M3/1B EVENT AT 18/0450Z, AND AN M1/1B AT 1146Z. THIS DEVELOPING REGION THE LARGEST AFTER 2779, IT CONTAINS A MAGNETIC DELTA, SHARES A NEUTRAL LINE WITH NEARBY NEW REGION 2794 (N10E31) AND RESPONDS SYMPATHETICALLY WITH IT. REGION 2788 (N18W48) PRODUCED AN M2/SB AT 18/1005Z WITH A SMALL AMOUNT OF RADIO EMISSION. THIS REGION ERUPTS FREQUENTLY WHILE ITS STRUCTURE AND APPEARANCE CHANGES LITTLE. ANOTHER NEW REGION 2795 (S15W07) IS DEVELOPING IN CONJUNCTION WITH A SMALL ISOLATED POLE, NEWLY APPARENT IN H-ALPHA.

IB. SOLAR ACTIVITY SHOULD CONTINUE MODERATE. X-RAY EVENTS AND LIMB ACTIVITY IS LIKELY TO CONTINUE FOR ANOTHER DAY FROM REGION 2779. REGIONS 2788, 2790 (N16W06), 2793 ARE LIKELY FLARE PRODUCERS AT CLASS M LEVELS. THE MORE ENERGETIC FLARES ARE MOST LIKELY FROM REGION 2793.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. IT IS EXPECTED TO REMAIN SLIGHTLY UNSETLED.

III. EVENT PROBABILITIES 19 NOVEMBER - 21 NOVEMBER

CLASS M 95/95/95

CLASS X 25/15/10

ROTATION 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 NOVEMBER 179

PREDICTED 19-21 NOVEMBER 170/170/170

9-DAY MEAN 18 NOVEMBER 202

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 17 NOVEMBER 12/09

ESTIMATED AFR/AP 18 NOVEMBER 12/12

PREDICTED AFR/AP 19-21 NOVEMBER 10/10 - 10/10 - 10/10

SOLTERWARN

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