

KBOU

HFUS 3 BOU 021310

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SD F NUMBER 276A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 2 OCT 1980

IA. SOLAR ACTIVITY HAS CONTINUED AT A LOW LEVEL DURING THE LAST 24 HOURS. NEARLY ALL ACTIVITY IS BEING PRODUCED BY REGION 2701 (N15E17), INCLUDING MOSTLY C CLASS SUBFLARES. ALSO AT 0530 UT ON 2 OCT TWO XRAY EVENTS C2 AND C1 WERE ASSOCIATED WITH A 1N OPTICAL FLARE IN 2701 WHICH BEGAN ON THE NEUTRAL LINE IN THE TRAILER PORTION OF THE REGION AND MOVED ONTO THE STEEP GRADIENT AREA BENEATH THE LEADERSPOT. THIS REGION IS SHOWING DECAY AMONG THE TRAILER SPOTS, AND SOME PROPER MOTION. SOME GROWTH IS OCCURRING AND AN ARCH FILAMENT SYSTEM HAS DEVELOPED IN THE LEADER PORTION. ALSO AN UNASSOCIATED M1 EVENT OCCURRED AT 0152Z ON 2 OCT. REGION 2697 (S18W32) CONTINUES TO DECAY SLOWLY OVERALL.

REGION 2699 (N22E07) HAS SPOT GROWTH APPEARING IN THE TRAILER. THE LARGE FILAMENT NEAR (S45W25) HAS DISAPPEARED DURING THE HOURS 01/2130Z-02/0200Z. THE FILAMENT NEAR N25E67 HAS ALSO BEEN ACTIVE DURING THE SAME PERIOD.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. REGION 2701 WILL PROBABLY REMAIN THE PRINCIPAL SOURCE OF THIS ACTIVITY. A SLIGHT INCREASE IN ACTIVITY MAY SPREAD INTO REGION 2699 IF DEVELOPMENT IN THIS REGION CONTINUES.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET SINCE LATE ON 30 SEPT. IT IS EXPECTED TO REMAIN QUIET.

III. EVENT PROBABILITIES: 02 OCT - 05 OCT

CLASS M (30) /50/45/40

CLASS X (01) /04/04/02

PROTON (01) /01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 01 OCT 171

ESTIMATED 02 OCT 170

PREDICTED 3 OCT-5 OCT 168/166/164

30 DAY MEAN 01 OCT 180

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 SEPT 06/06

ESTIMATED AFR/AP 01 OCT 03/05

PREDICTED AFR/AP 02 OCT-05 OCT (04/06) 05/08 06/08 06/08

EFFECTIVE 1 OCT 1980, NOAA-SESC/AFGWC WILL ISSUE TWO DAILY FORECASTS, ONE AT 1200Z AND THE OTHER AT 2200Z. THE 1200Z FORECAST WILL EMPHASIZE DETAILS ON SOLAR ACTIVE REGION ANALYSIS. THE 2200Z FORECAST WILL DISCUSS MAJOR SOLAR GEOPHYSICAL EVENTS.

SOLTERWARN

BT

2711

NOV 1980
EAST

142

HFUS 1 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SF NUMBER 276B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 02 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 10 HOURS. ONLY SMALL C-CLASS X-RAY EVENTS HAVE BEEN RECORDED. THE LARGEST A C2/SN FROM REGION 2699 (N22W00) AT 1705 UT, REGION 2698 (N29W03) ALSO PRODUCED A SF AT THE SAME TIME. REGION 2701 (N15E11) HAD A SF, NO X-RAY, AT 1800 UT. THE M2 EVENT WHICH OCCURRED AT 2200 UT IS BELIEVED TO HAVE COME FROM THE NEW REGION, 2710 (S25E70) H TYPE, WHICH ROTATED ONTO THE DISK TODAY. NEW REGION 2711 (S07W66) IS A RAPIDLY GROWING GROUP CONTAINING STRONG ARCH FILAMENTS AND IS NOW A C TYPE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

III. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BE QUIET TO UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 03 - 05 OCTOBER

CLASS M 15/0/4/0

CLASS X 01/0/1/0

PROTON 01/0/1/0

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 OCTOBER

PREDICTED 03 - 05 OCTOBER

90-DAY MEAN 02 OCTOBER

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 01 OCTOBER 02/05

ESTIMATED AFR/AP 02 OCTOBER 06/06

PREDICTED AFR/AP 03 - 05 OCTOBER 06/08 08/08 10/10

EFFECTIVE 1 OCT 1980, NOAA-SESC/AFGWC WILL ISSUE TWO DAILY FORECASTS, ONE AT 1200Z AND THE OTHER AT 2200Z. THE 1200Z FORECAST WILL EMPHASIZE DETAILS ON SOLAR ACTIVE REGION ANALYSIS. THE 2200Z FORECAST WILL DISCUSS MAJOR SOLAR GEOPHYSICAL EVENTS.

SOLAR/WARN

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