

HFUS 1 BOU 041300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 185A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 04 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3801 (S18E75) PRODUCED AN M2/SB/LPS AT 04/0457Z AFTER PRODUCING SEVERAL MID CLASS C FLARES EARLY IN THE PERIOD. A WEAK TYPE II AND MODERATE CENTIMETRIC BURSTS WERE OBSERVED WITH THE M2 FLARE. THIS REGION IS AN OPEN CLASS B SUNSPOT GROUP WITH ONLY MEDIUM INTENSITY PLAGE. IT IS LIKELY THAT ANOTHER REGION IS TRAILING 3801. ALL OTHER DISK REGIONS ARE SMALL, SIMPLE, AND QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY LOW FOR THE PERIOD WITH ONLY INTERMITTENT CLASS M FLARES EXPECTED FROM REGION 3801. AT THE END OF THE FORECAST PERIOD, THE LEADING EDGE OF OLD REGION 3776 WILL BE ABOUT 12 DEGREES BEHIND THE EAST LIMB. WHILE THIS REGION IS NOT EXPECTED TO RETURN AS ACTIVE AS IT WAS LAST ROTATION, BEHIND THE LIMB CLASS M FLARE ACTIVITY IS POSSIBLE ON 7 JULY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED BORDERING ON QUIET. UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 05 JUL-07 JUL

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 JUL 106

ESTIMATED 04 JUL 113

PREDICTED 05 JUL-07 JUL 120/125/130

90 DAY MEAN 03 JUL 159

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 JUL 011 AP 03 JUL 009

ESTIMATED AFR 03 JUL 009 AFR/AP 04 JUL 007/007

PREDICTED AFR/AP 05 JUL-07 JUL 010/010-010/010-010/014

SOLTERWARN

BT

HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 185B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 04/2100Z: SOLAR ACTIVITY HAS RETURNED TO A LOW LEVEL THIS PERIOD FOLLOWING THIS MORNING'S (0457Z MAXIMUM) M2/SB FROM REGION 3801 (S18E65). FLARE PRODUCTION HAS BEEN RESTRICTED TO SMALL SUBFLARES FROM A VARIETY OF SMALL UNIMPRESSIVE SPOT GROUPS. WHAT WAS CONSIDERED ONLY ONE REGION DUE TO LIMB PROXIMITY (REGION 3801) HAS NOW BEEN DIVIDED INTO TWO SEPARATE REGIONS. NEW NUMBER 3802 (S18E68) HAS BEEN GIVEN TO THE SMALL SPOT GROUP IMMEDIATELY TRAILING AND TO THE NORTH OF 3801. THIS SEPARATION IS CONFIRMED BY THE KIT PEAK MAGNETOGRAM. BOTH REGIONS ARE SIMPLE MAGNETICALLY. SLOW GROWTH AND AN ARCH FILAMENT SYSTEM HAS BEEN OBSERVED IN REGION 3798 (S11E10). THIS REGION ALSO CONTAINS A VERY LARGE AND UNUSUAL ACTIVE FILAMENT SHAPED LIKE A J EXTENDING FROM N08E15 TO S21E21 TO S09E29 (LOCATION VALID AT 1430Z). THIS FILAMENT APPEARS READY TO ERUPT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, HOWEVER AN ISOLATED M-CLASS EVENT IS POSSIBLE FROM THE SOUTHEAST COMPLEX.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST NINE HOURS. UNSETTLED CONDITIONS ARE EXPECTED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 05 JUL-07 JUL

CLASS M 40/40/50

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JUL 108

PREDICTED 05 JUL-07 JUL 112/115/118

90 DAY MEAN 04 JUL 158

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 JUL 006/009

ESTIMATED AFR/AP 04 JUL 004/008

PREDICTED AFR/AP 05 JUL-07 JUL 010/010-010/010-010/014

SOLTERWARN

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