

HFUS 1 BOU 051300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 186A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 05 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 05/1200Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 3801 (S18E57) IS NOW VISIBLE AS A SMALL CLASS A GROUP. NEARBY REGION 3802 (S14E62) IS A SMALL CLASS C GROUP WITH ENHANCED PLAGUE. THESE REGIONS SEEM INCAPABLE OF HAVING PRODUCED THE M2 FLARE OF 04/0457Z WITHOUT SOME INTERACTION. A FILAMENT LOCATED AT N21-34E23-43 DISAPPEARED BETWEEN 04/0640Z AND 04/2125Z. A LARGE J SHAPED FILAMENT IN THE SOUTHEAST QUADRANT NEAR REGIONS 3794 (S06E03) AND GROWING REGION 3798 (S11E02) HAS BEEN STABLE FOR THE PAST 24 HOURS BUT EMERGING FLUX NEARBY COULD SOON RESULT IN A LARGE ERUPTION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW UNTIL 8 JULY WHEN PREVIOUSLY ACTIVE REGION 3776 RETURNS TO THE EAST LIMB. THIS REGION IS NOT EXPECTED TO BE AS ACTIVE THIS ROTATION. ANOTHER CLASS M FLARE FROM 3801/3802 AND A LARGE AREA, FILAMENT RELATED FLARE FROM THE SOUTHEAST QUADRANT ARE POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO UNSETTLED CONDITIONS ARE FORECAST FOR THE NEXT THREE DAYS. THE FILAMENT ERUPTION IN THE NORTHEAST QUADRANT IS NOT EXPECTED TO RESULT IN ANY SIGNIFICANT GEOMAGNETIC DISTURBANCE. HOWEVER, SHOULD THE LARGE FILAMENT IN THE SOUTHEAST ERUPT WITHIN THE NEXT SEVERAL DAYS, STORM CONDITIONS COULD RESULT. A STORM FORECAST WILL BE MADE ONLY AFTER THE ERUPTION HAS BEEN OBSERVED.

III. EVENT PROBABILITIES 06 JUL-08 JUL

CLASS M 40/50/50

CLASS X 05/05/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JUL 108

ESTIMATED 05 JUL 112

PREDICTED 06 JUL-08 JUL 115/118/125

90 DAY MEAN 04 JUL 158

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 JUL 006 AP 04 JUL 006

ESTIMATED AFR 04 JUL 003 AFR/AP 05 JUL 004/006

PREDICTED AFR/AP 06 JUL-08 JUL 008/010-010/014-010/015

SOLTERWARN

BT

HFXS 3 BOU 052200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 186B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 05/2100Z: SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL. NO SIGNIFICANT DISK FLARES HAVE BEEN OBSERVED DURING THE PAST NINE HOURS. REGION 3802 (S17E55) CONTAINS THE MOST POTENTIAL FOR FLARE PRODUCTION WITH A SMALL MAGNETIC DELTA CONFIGURATION IN ITS LEADING SPOT, BUT HAS SHOWN ONLY MINOR PLAGE FLUCTUATIONS. THIS REGION DOES CONTAIN ARCH FILAMENTS, HOWEVER, AND SHARES A COMMON NEUTRAL LINE WITH NEARBY REGION 3801 (S18E50). A BRIGHT SURGE WAS OBSERVED IN PROGRESS AT 1505Z FROM N12E90, INDICATING THE POSSIBILITY OF AN ACTIVE REGION NEARING EAST LIMB. THIS ACTIVITY WHICH IS REFLECTED ON THE 10.7CM EAST-WEST SCAN COULD BE THE RETURN OF PRIOR ROTATION REGION 3774 (N08,CAR 344) WHICH WAS DEVELOPING DURING ITS DISK TRANSIT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW, HOWEVER, RETURNING REGIONS COULD CONTRIBUTE A MODERATE SIZE EVENT DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET EXCEPT DURING THE 12-15Z PERIOD WHEN UNSETLED LEVELS (K OF 3) WAS OBSERVED AT BOULDER. THE FIELD IS FORECAST TO REMAIN UNSETLED THROUGH THE PERIOD.

III. EVENT PROBABILITIES 06 JUL-08 JUL

CLASS M 40/50/50

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JUL 110

PREDICTED 06 JUL-08 JUL 115/120/125

90 DAY MEAN 05 JUL 157

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 JUL 002/006

ESTIMATED AFR/AP 05 JUL 006/007

PREDICTED AFR/AP 06 JUL-08 JUL 008/010-010/014-010/015

SOLTERWARN

BT

HXUS BOU 052200

PREDM 04006 05007 05008

PREDX 00106 00107 00508

PREDP 00106 00107 00108

PCAF 00106

TENCM 11506 12007 12508

AFRED 00806 01007 01008

AFAPF 01006 01407 01508

BT