

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 PLAGE. 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

HFUS 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 UNSETTLED
 LEVELS (K OF 3) WAS OBSERVED AT BOULDER. THE FIELD IS FORECAST
 TO REMAIN UNSETTLED 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
 PCAFT 00106
 TENCM 11506 12007 12508
 AFRED 00806 01007 01008
 AFAPF 01006 01407 01508
 BT