

HFUS 1 BOU 071300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 188A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 07 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 07/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 3802 (S17E34) PROVIDED MOST OF THE OBSERVED ACTIVITY INCLUDING A C5/SB DOUBLE-RIBBON FLARE WHICH MAXED AT 07/0418Z. REGION 3802 CONTAINS A VERY ACTIVE DARK FILAMENT AND CONTINUES SLOW GROWTH INCLUDING A STRENGTHENING MAGNETIC FIELD GRADIENT. NEW REGION 3803 (N10E69) IS NOW SEEN TO BE A DEVELOPING C-TYPE GROUP WHICH HAS PRODUCED SOME MINOR FLARE ACTIVITY. SURGING HAS BEEN REPORTED BEHIND REGION 3803 AND AT NE16 WHICH IS NEAR THE LOCATION OF THE EXPECTED RETURN OF OLD REGION 3776.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW WITH THE POSSIBILITY OF ISOLATED M-CLASS X-RAY EVENTS FROM REGION 3802 AND THE NORTHEAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE FOR THE PAST 24 HOURS. A REVERSE SHOCK PASSED THE ISEE-3 SPACECRAFT AT 0732Z AND SOLAR WIND DENSITIES AND MAGNETIC FIELD INTENSITIES HAVE DROPPED CONSIDERABLY SINCE. THE GEOMAGNETIC FIELD IS EXPECTED TO BE LOW UNSETLED FOR THE REMAINDER OF TODAY BUT TO RESUME UNSETLED TO ACTIVE BEHAVIOR TOMORROW BASED ON AN INFERRED CORONAL TRANSIENT (FILAMENT DISAPPEARANCE) MIDDAY ON 4 JULY. QUIET CONDITIONS SHOULD RETURN BY 10 JULY.

III. EVENT PROBABILITIES 08 JUL-10 JUL

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JUL 117

ESTIMATED 07 JUL 122

PREDICTED 08 JUL-10 JUL 130/138/146

90 DAY MEAN 06 JUL 157

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 JUL 004 AP 06 JUL 014

ESTIMATED AFR 06 JUL 014 AFR/AP 07 JUL 016/020

PREDICTED AFR/AP 08 JUL-10 JUL 015/015-015/015-007/015

SOLTERWARN

BT

HFXUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 188B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 07/2100Z: SOLAR ACTIVITY REMAINS LOW. THE LARGEST EVENT DURING THE PERIOD WAS AN UNCORRELATED C6 AT 2015Z MAXIMUM. ALTHOUGH SEVERAL OBSERVATORIES WERE VIEWING THE SUN DURING THIS TIME AND REPORTED NO DISK ACTIVITY, INDICATING A POSSIBLE FLARE FROM BEHIND THE EAST LIMB. ALMOST CONSTANT SURGING HAS BEEN REPORT FROM NE10 THROUGH NE15. REGION 3798 (S11W31) PRODUCED A SB FLARE AT 1949Z MAXIMUM. THIS REGION HAS TOTALLY DECAYED IN WHITE LIGHT. REGION 3802 (S17E29) HAS STABILIZED DURING THE PAST NINE HOURS AND HAS LOST ITS DELTA *- Calred* MAGNETIC CONFIGURATION. NO FLARES HAVE BEEN OBSERVED DURING THE PERIOD IN THIS REGION. REGION 3803 (N11E65) CONTINUES TO GROW SLOWLY IN WHITE LIGHT, BUT HAS BEEN QUIET DURING THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, HOWEVER, A GENERAL INCREASE IN FLARE PRODUCTION IS EXPECTED DURING THE FORECAST PERIOD AS ACTIVE REGION(S) ROTATE OVER EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE NINE HOUR PERIOD. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED THROUGH 9 JULY.

III. EVENT PROBABILITIES 08 JUL-10 JUL

CLASS M 40/50/60

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUL 128

PREDICTED 08 JUL-10 JUL 135/140/146

90 DAY MEAN 07 JUL 156

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JUL 016/014

ESTIMATED AFR/AP 07 JUL 022/024

PREDICTED AFR/AP 08 JUL-10 JUL 018/020-015/015-007/015

SOLTERWARN

BT

HFXUS BOU 072200

PREDM 04008 05009 06010

PREDX 00108 00109 00510

PREDP 00108 00109 00110

PCAF 00108

TENCM 13508 14009 14610

AFRED 01808 01509 00710

AFAPF 02008 01509 01510

BT