

HFUS 1 BOU 311300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 212A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 31 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
30/1200Z TO 31/1200Z: SOLAR ACTIVITY CONTINUES VERY LOW, BUT
WITH SOME INCREASE IN SUBFLARE ACTIVITY. SIGNIFICANT GROWTH IN
REGION 3829(S10E44) HAS DEVELOPED A BRIGHT FLUCTUATING PLAGE
WITH A SMALL CLASS D SPOT GROUP. VERY SMALL NEW REGIONS HAVE
EMERGED: REGION 3832(S12E02) IN THE MIDST OF AN AGED PLAGE AND
REGION 3833(S16W47). REGION 3830(N16E63) IS NOW VISIBLE AS A
SMALL CLASS D SPOT GROUP WITH AN ACTIVE PROMINENCE FOLLOWING
IT. A LARGE FILAMENT DISAPPEARED FROM S25W45 AT ABOUT 30/1000Z.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
RETURN TO ITS ACTIVE EXTREME WITH THE 10TH CONSECUTIVE EAST
LIMB PASSAGE OF THE ACTIVE LONGITUDES MARKED LAST BY REGION
3804. LIMB ACTIVITY AT NE05-20 MAY OCCUR BY MIDDAY ON 02
AUGUST.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
RESUMED MINOR STORM CONDITIONS TODAY WITH BRIEF PERIODS OF
MAJOR STORM PROPORTIONS NEAR THE MIDNIGHT SECTOR. THERE IS NO
CLEAR SOLAR SOURCE FOR THIS UNEXPECTED ACTIVITY. FILAMENT
ACTIVITY IN THE WESTERN SOLAR HEMISPHERE IN THE PAST FEW DAYS
MAY BE A SUBTLE INDICATOR OF TURBULENT CORONAL CONDITIONS. A
SMALL SHRINKING CORONAL HOLE JUST PAST CENTRAL MERIDIAN TODAY
IS ANOTHER SUSPICIOUS FACTOR. A LARGE FILAMENT DISAPPEARED
EARLY ON 30 JULY AND MAY RESULT IN RENEWAL OF GEOMAGNETIC
ACTIVITY MIDWAY THROUGH THIS FORECAST PERIOD. NO TRUELY QUIET
CONDITIONS CAN BE FORESEEN FOR DAYS OR EVEN WEEKS AHEAD.

III. EVENT PROBABILITIES 01 AUG-03 AUG

CLASS M 30/50/70
CLASS X 01/10/15
PROTON 01/10/15
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JUL 109
ESTIMATED 31 JUL 120
PREDICTED 01 AUG-03 AUG 130/145/160
90 DAY MEAN 30 JUL 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 JUL 019 AP 30 JUL 024
ESTIMATED AFR 30 JUL 023 AFR/AP 31 JUL 036/040
PREDICTED AFR/AP 01 AUG-03 AUG 020/020-015/015-020/020

SOLTERWARN

BT

HFUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 212B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 31 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
31/1200Z TO 31/2100Z: SOLAR ACTIVITY HAS BEEN LOW. A SMALL FLARE
IN REGION 3828 (N07W13) IS THE ONLY ACTIVITY NOTED DURING PAST
9 HOURS. REGION 3830 (N16E56) SHOWS ARCH FILAMENTS AND POINT
BRIGHTENINGS WHILE GROWING SLOWLY. REGION 3829 (S12E37) IS ALSO
GROWING AND HAS AN ARCH FILAMENT SYSTEM. LITTLE ELSE HAS
CHANGED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
LOW. THE RETURN OF REGION 3804 IS EXPECTED TO RAISE ACTIVITY
LEVELS CONSIDERABLY. THE LEADING EDGE OF 3804 SHOULD BE VISIBLE
LATE ON 2 AUG OR EARLY ON 3 AUG.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT ACTIVE TO MINOR STORM LEVELS. GENERALLY ACTIVE
CONDITIONS THROUGH 3 AUG CAN BE EXPECTED.

III. EVENT PROBABILITIES 01 AUG-03 AUG

CLASS M 30/50/70

CLASS X 01/10/15

PROTON 01/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JUL 111

PREDICTED 01 AUG-03 AUG 122/133/145

90 DAY MEAN 31 JUL 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 JUL 022/024

ESTIMATED AFR/AP 31 JUL 024/031

PREDICTED AFR/AP 01 AUG-03 AUG 020/020-015/015-020/020

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HXUS BOU 312200

PREDM 03001 05002 07003

PREDX 00101 01002 01503

PREDP 00101 01002 01503

PCAFT 00101

TENCM 12201 13302 14503

AFRED 02001 01502 02003

AFAPF 02001 01502 02003

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