

KBOU
HFUS 1 BOU 261300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 777A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 26 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS BEEN HIGH. REGION
3781(N15W71) HAS BEEN THE SOURCE OF THE FOLLOWING FLARES:
M2/2B 25/1945Z MAX, M7/1B 25/2140Z MAX, X1/2B 26/0049Z MAX,
M1/1B 26/0926Z MAX, AN UNASSOCIATED M2 WAS OBSERVED 26/0942Z
MAX. REGION 3782(N16W33) FLARED TO 1B AND ENHANCED THE X1 EVENT
AROUND 26/0209Z. REGION 3781 HAS BEEN REPORTED IN DECLINE AND
RESTRUCTURING. THE RECENT FLARES ARE APPARENTLY ASSOCIATED
WITH THAT DECLINE. RECENT ANALYSIS TO SHOW REMAINING POTENTIAL
IN THE REGION HAS BEEN PREVENTED BY WEATHER CONDITIONS AT THE
OBSERVATORIES. REGION 3782 DOES NOT APPEAR IMPRESSIVE BUT HAS
BEEN FLARE PRODUCTIVE. REGION 3787(S02W61) IS A MORE
IMPRESSIVE GROUP IN WHITE LIGHT BUT AS YET HAS NOT GIVEN
ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE. MORE M CLASS FLARES ARE PRESUMED POSSIBLE IN REGION
3781. IF THE REGION IS INDEED DECAYING AS APPEARED TRUE IN
EARLIER HOURS, THE FREQUENCY OF ACTIVITY SHOULD DECREASE.
OTHER REGIONS DO NOT APPEAR CAPABLE OF EVEN MODERATE LEVEL
ACTIVITY. OLD REGION 3763 SHOULD RETURN LATE ON 28 JUNE AND IS
A POSSIBLE SOURCE OF ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED WITH BRIEF INTERMITTENT PERIODS OF ACTIVE
CONDITIONS. EFFECTS OF CORONAL HOLE NO LONGER APPEAR LIKELY
AND CONDITIONS ARE EXPECTED TO TREND DOWNWARD. THE GEOMAGNETIC
FIELD SHOULD BE MILDLY UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 JUN-29 JUN

CLASS M 60/60/50
CLASS X 10/10/05
PROTON 05/05/05
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JUN 156
ESTIMATED 26 JUN 149
PREDICTED 27 JUN-29 JUN 144/140/145
90 DAY MEAN 25 JUN 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 JUN 022 AP 25 JUN 025
ESTIMATED AFR 25 JUN 014 AFR/AP 26 JUN 010/010
PREDICTED AFR/AP 27 JUN-29 JUN 012/015-012/015-012/015

SOLTERWAR M

BT

HXUS BOU 261300

FREDM 06027 06028 05029
FREDX 01027 01028 00529
FREDP 00527 00528 00529
PCAFT 00127

TENCM 14427 14028 14529
AFRED 01227 01228 01229
AFARF 01527 01528 01529
KKK 23233 32223 33332

BT

NNNN

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 177B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN HIGH SINCE 1200Z. AN X2/2B BROKE A BRIEF LULL AT 26/1909Z AS REGION 3781(N15W78) CONTINUES TO DEMONSTRATE ITS POTENTIAL. A 10CM BURST OF 500 FLUX UNITS ACCOMPANIED THIS FAST RISING EVENT. REGION 3781 IS SO NEAR THE LIMB NOW THAT IT APPEARS DISORGANIZED. REGION 3782(N16W40) IS THE ONLY OTHER REGION THAT SHOWS TENDENCIES TOWARD PRODUCING ENERGETIC ACTIVITY BUT THUS FAR HAS ONLY PRODUCED INFREQUENT SUBFLARES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO DECLINE GRADUALLY AS 3781 NEARS WEST LIMB PASSAGE. THE RETURN OF OLD REGION 3763 ON 29 JUNE COULD POSSIBLY ESCALATE THE PROBABILITIES AGAIN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. GENERALLY UNSETTLED CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES 27 JUN-29 JUN

CLASS M 60/60/50

CLASS X 10/10/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 JUN 133

PREDICTED 27 JUN-29 JUN 125/121/124

90 DAY MEAN 26 JUN 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 JUN 013/025

ESTIMATED AFR/AP 26 JUN 010/015

PREDICTED AFR/AP 27 JUN-29 JUN 012/015-012/015-012/015

SOLTERWARN

BT