

KBOU

HFXUS BOU 261300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 7770

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 26 JUN 1982

I A. 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(N18W33) 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.

B. 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 UNSETLED 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 UNSETLED 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 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

SOLIERWARN

BT

HFXUS BOU 261300

PREDM 06027 06028 05029

PREDX 01027 01028 00529

PREDP 00527 00528 00529

PCAF 00127

TENCM 14427 14028 14529

AFRED 01227 01228 01229

AFARP 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 ACCCOMPANIED 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 28 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 138

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