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HFUSM BOU 251300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 176A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 25 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3781 (N15W59) PRODUCED AN M1/SB AT 24/2314UT AND WAS MOST LIKELY THE SOURCE OF AN M1 AT 25/1042UT. SEVERAL OTHER SUBFLARES HAVE BEEN OBSERVED FROM THIS DECAYING REGION. SUNSPOT DATA INDICATE THE DELTA CONFIGURATION IN 3781 MAY BE FADING AND, WITH CONTINUED TRAILER DECAY, THIS REGION COULD BECOME NEARLY BIPOLAR. REGION 3776 (N13W97) HAS PRODUCED SEVERAL SPECTACULAR NON-ENERGETIC LIMB EVENTS WITH THE LARGEST BEING AN EPL/C9 AT 24/1951UT. H-ALPHA MATERIAL WITH THIS EVENT EXTENDED TO NEAR .4 RADII ABOVE THE NORTHWEST LIMB. ACTIVE AND BRIGHT SURGING CONTINUES FROM THIS AREA. SMALL REGION 3790 (N12W35) IS EMERGING JUST AHEAD OF 3782 (N16W21), FILLING IN A PORTION OF A TRANSEQUATORIAL CORONAL HOLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE MODERATE WITH REGION 3781 EXPECTED TO BE A CLASS M FLARE PRODUCER. THE PROBABILITY OF A MAJOR FLARE FROM THIS REGION HAS DECREASED. REGION 3763 (S10, L082) IS DUE TO RETURN TO THE EAST LIMB LATE ON 28 JUNE. 3763 GAVE 6 CLASS X AND OVER 50 CLASS M FLARES LAST ROTATION AND IS EXPECTED TO RETURN ACTIVE IN SPIITE OF SOME DECAY OBSERVED DURING ITS WESTERN HEMISPHERE TRANSIT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. THE FIELD IS EXPECTED TO BE HIGHLY ACTIVE FOR THE NEXT TWO DAYS, CALMING TO LOW ACTIVE LEVELS ON 28 JUNE.

III. EVENT PROBABILITIES 26 JUN-28 JUN

CLASS M 70/60/60

CLASS X 10/10/10

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUN 163

ESTIMATED 25 JUN 150

PREDICTED 26 JUN-28 JUN 140/130/130

90 DAY MEAN 24 JUN 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 JUN 019 AP 24 JUN 021

ESTIMATED AFR 24 JUN 013 AFR/AP 25 JUN 022/028

PREDICTED AFR/AP 26 JUN-28 JUN 025/030-025/025-015/015

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HFUS 3 BOU 252200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 176B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION
3781(N15W65) PRODUCED AN M2/2B FLARE AT 1945Z MAXIMUM. THE
REMAINING ACTIVITY FOR THE PERIOD WAS LIMITED TO C CLASS XRAY,
SUBFLARES PRIMARILY FROM REGION 3781. REGION 3791(S14E36) HAS
FORMED ON THE DISK TODAY AS A SMALL C CLASS GROUP. REMAINING
GROUPS APPEAR STABLE AND RELATIVELY QUIET TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN
MODERATE. REGION 3781 SHOULD CONTINUE PRODUCTIVE IN SMALL
FLARES WITH AN OCCASIONAL M CLASS FLARE STILL POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN INTERMITTENTLY ACTIVE AND IS EXPECTED TO CONTINUE WITH
THIS PATTERN FOR AT LEAST 24 MORE HOURS.

III. EVENT PROBABILITIES 26 JUN-23 JUN

CLASS M 70/60/50

CLASS X 10/10/60

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JUN 156

PREDICTED 26 JUN-28 JUN 149/144/145

90 DAY MEAN 25 JUN 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 JUN 022/021

ESTIMATED AFR/AP 25 JUN 016/030

PREDICTED AFR/AP 26 JUN-28 JUN 025/030-025/025-015/015

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