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HFUS 1 BOU 281300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 179A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 28 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN EXTREMELY LONG LIVED M4 FLARE BEGAN AT 27/1844UT, REACHED MAXIMUM AT 27/2101UT, AND SLOWLY DECLINED TO A BACKGROUND LEVEL OF C3 AT APPROXIMATELY 28/0900UT. THE ONLY REPORTED OPTICAL CORRELATIONS WERE ACTIVE SURGING FROM 3781 (N15W99) AND NE09. HOWEVER, BRIGHT PLAGE AND ACTIVE SURGING HAS RECENTLY BEEN OBSERVED AT SE13, NEAR WHERE PREVIOUSLY ACTIVE REGION 3763 SHOULD BE LOCATED. THE LATITUDINAL EXTENT OF THESE ACTIVE LONGITUDES IS INCREASING AS MORE OF THE AREA BECOMES VISIBLE. A MODERATELY LARGE PROMINENCE AT SW06 ERUPTED AT 28/0349UT TO .3 RADII. A SMALL H SPOT BECAME VISIBLE AT N07E73 AND WAS NUMBERED 3792.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY MODERATE FOR THE FORECAST PERIOD. REGION 3781 COULD PRODUCE AN ISOLATED CLASS M FLARE FROM BEHIND THE WEST LIMB. THE RETURN OF REGION 3763 SHOULD ELEVATE THE 10CM BACKGROUND FLUX, AND POSSIBLY FLARE ACTIVITY LEVELS, BUT ITS FLARE POTENTIAL AT THIS TIME CANNOT BE ACCURATELY ESTIMATED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN STRONGLY ACTIVE. SOLAR WIND DATA FROM ISEE-3 (WHICH MAY BE QUESTIONABLE DUE TO THE FACT THAT THE SPACECRAFT IS MOVING TOWARD THE GEOMAGNETIC TAIL) INDICATE THE CURRENT DISTURBANCE IS CORONAL HOLE RELATED. THIS DISTURBANCE SHOULD CONTINUE THROUGH 29 JUNE WITH UNSETLED, TO SLIGHTLY ACTIVE CONDITIONS FORECAST FOR 30 JUNE AND 1 JULY.

III. EVENT PROBABILITIES 29 JUN-01 JUL

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JUN 123

ESTIMATED 28 JUN 133

PREDICTED 29 JUN-01 JUL 150/155/160

90 DAY MEAN 27 JUN 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 JUN 013 AP 27 JUN 034

ESTIMATED AFR 27 JUN 024 AFR/AP 28 JUN 023/030

PREDICTED AFR/AP 29 JUN-01 JUL 025/025-014/015-012/015

SOLTERWAR N

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HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 179B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 28 JUNE 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 28/2100Z: SOLAR ACTIVITY HAS BEEN LOW SINCE 1200Z. TWO NEW REGIONS WERE NUMBERED TODAY, BUT BOTH ARE SMALL AND SIMPLE; REGION 3792 (N08E66) AND "H" TYPE GROUP AND REGION 3793 (S12E26) A "B" TYPE GROUP. THE RETURN OF OLD 3763 IS NOT YET EVIDENT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL PROBABLY REMAIN LOW AS THERE IS NO APPARENT REASON TO SUGGEST OTHERWISE. THE POSSIBILITY OF AN ISOLATED M-CLASS EVENT STILL EXISTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS. LITTLE CHANGE IS EXPECTED BEFORE LATE TOMORROW WHEN UNSETTLED CONDITIONS SHOULD RETURN.

III. EVENT PROBABILITIES 29 JUNE - 01 JULY

CLASS M            60/60/60

CLASS X            10/10/10

PROTON            01/01/01

PCAF              GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED          28 JUNE 119

PREDICTED         29 JUNE - 01 JULY 120/125/127

90-DAY MEAN       28 JUNE 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP    27 JUNE 28/34

ESTIMATED AFR/AP   28 JUNE 26/30

PREDICTED AFR/AP   29 JUNE - 01 JULY 25/25 - 14/15 - 12/15

SOLTERWARN

BT