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HFUS 180U 061300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 218A

JOINT USAF/NOA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 AUG 1982

A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 06/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGIONS 3837 (N10E48) AND 3839 (N10E62) SHARE AN EXTENSIVE BUT SIMPLE NEUTRAL LINE AND FREQUENT SUBFLARES HAVE BEEN OBSERVED IN THESE REGIONS. THIS COMPLEX APPEARS TO BE STABLE AND MAY BE CONTINUING THE DECAY WHICH OBVIOUSLY OCCURRED DURING ITS INVISIBLE HEMISPHERE TRANSIT. NEW REGION 3840 (S15E07) RAPIDLY EMERGED ON THE DISK AND, ALTHOUGH STILL SMALL, SHOWS NO SIGN OF SLACKENING. INTERMITTENT SURGING HAS BEEN VISIBLE AT NE14 NEAR THE AREA WHERE TWO ACTIVE REGIONS ARE DUE TO RETURN. REGIONS 3838 (N10E07) AND 3829 (S12W37) HAVE SHOWN NO SIGNIFICANT CHANGES OTHER THAN SOME GROWTH IN 3838.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME GENERALLY MODERATE WITH 3837 AND 3839 BEING THE PRIMARY SOURCE REGIONS. PREVIOUSLY ACTIVE REGIONS 3810 AND 3812 ARE DUE TO ROTATE ONTO THE LIMB ON 07 AUG WHICH SHOULD CONTRIBUTE TO THE POSSIBILITY OF M-CLASS FLARES BEING OBSERVED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE. ACTIVE CONDITIONS SHOULD BE EXPERIENCED ON 07 AUG AND 09 AUG WITH NEAR MINOR STORM LEVELS FORECAST FOR 08 AUG. THE DISTURBANCE ON 08-09 AUG IS FORECAST BASED UPON A LARGE FILAMENT DISRUPTION OBSERVED ON 04 AUG.

III. EVENT PROBABILITIES 07 AUG-09 AUG

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 AUG 176

ESTIMATED 06 AUG 188

PREDICTED 07 AUG-09 AUG 200/206/211

90 DAY MEAN 05 AUG 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 AUG 016 AP 05 AUG 022

ESTIMATED AFR 05 AUG 017 AFR/AP 06 AUG 015/015

PREDICTED AFR/AP 07 AUG-09 AUG 017/020-025/025-020/020

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HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 218B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST NINE HOURS. EVENTS HAVE CONSISTED OF SMALL C-CLASS SUBFLARES FROM SEVERAL DIFFERENT REGIONS, THE MOST PROLIFIC OF THESE BEING 3839 (N12E56) AND 3829 (S12W43). THE LARGEST OF THESE EVENTS WAS A C4/SB FROM REGION 3829 AT 1649Z MAXIMUM. THIS REGION IN COMBINATION WITH REGION 3837 (N10E42) CONTINUES TO DISPLAY GOOD POTENTIAL FOR A MODERATE SIZED FLARE WITH STRONG ARCH FILAMENTS VISIBLE IN BOTH AREAS. REGION 3829 CONTINUES TO GROW AND ELONGATE. REGIONS 3840 (S14E03) AND 3841 (S12E22) ARE GROWING RAPIDLY, BUT HAVE REMAINED QUIET DURING THE PERIOD. NEW REGION 3842 (N20E66) APPEARED AT EAST LIMB AS A SMALL A-TYPE SPOT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO RETURN TO THE MODERATE LEVEL WITH M-CLASS X-RAY EVENTS LIKELY FROM THE 3837/3839 COMPLEX AND TO A LESSER EXTENT REGIONS 3829 AND 3838 (N10E02).

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD REMAINS ACTIVE. A SMALL SUDDEN COMMENCEMENT WAS OBSERVED AT BOULDER AT 1842Z WITH A 16 GAMMA DEFLECTION OBSERVED. THIS SC WAS FOLLOWED BY A K INDEX OF FIVE. ACTIVE TO OCCASIONAL MINOR STORM CONDITIONS ARE FORECAST FOR THE ENTIRE PERIOD.

III. EVENT PROBABILITIES 07 AUG-09 AUG

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 AUG 196

PREDICTED 07 AUG-09 AUG 210/220/225

90 DAY MEAN 06 AUG 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 AUG 019/022

ESTIMATED AFR/AP 06 AUG 019/020

PREDICTED AFR/AP 07 AUG-09 AUG 020/020-025/025-020/020

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