

HFUS 1 BOU 281300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 028A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 28 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH FREQUENT SUBFLARES BEING OBSERVED FROM REGIONS 4073 (N05W01) AND 4075 (S12E58). NONE OF THESE FLARES HAVE EXCEEDED CLASS C2 IN X-RAYS. WEATHER HAS INHIBITED OPTICAL OBSERVATIONS. REGION 4073 HAS EXHIBITED SLIGHT GROWTH AND MAGNETIC GRADIENT INCREASE. REGION 4075 IS NOW VISIBLE AS A SMALL CLASS E GROUP WITH AN OPEN CONFIGURATION. A STRONG ARCH FILAMENT SYSTEM HAS RECENTLY BEEN OBSERVED IN REGION 4072 (S08W05) AND ALTHOUGH NO AREAL INCREASE HAS BEEN REPORTED AS YET, THIS REGION MAY BE ENTERING A GROWTH PHASE. ACTIVE SURGING HAS BEEN OBSERVED AT SE15. A FILAMENT ASSOCIATED WITH REGION 4070 (S11W28) WAS ACTIVE YESTERDAY AND IS FADING TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE GENERALLY LOW WITH AN ISOLATED CLASS M FLARE FROM CURRENT DISK REGIONS POSSIBLE DURING THE NEXT THREE DAYS. SIGNIFICANT GROWTH COULD ALTER THIS FORECAST. SEVERAL SMALL ACTIVE REGIONS SHOULD ROTATE OVER THE SOUTHEAST LIMB DURING THE FORECAST PERIOD, BUT THESE LONGITUDES HAVE BEEN DECAYING FOR THE PAST TWO ROTATIONS AND ARE NOT EXPECTED TO RETURN ACTIVE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED. RECURRENCE AND THE LACK OF SIGNIFICANT SOLAR ACTIVITY INDICATE THESE GEOMAGNETIC CONDITIONS SHOULD PREVAIL FOR THE NEXT THREE DAYS. THE SLOW FILAMENT DISSIPATION NOTED ABOVE IS NOT EXPECTED TO RESULT IN GEOMAGNETIC ACTIVITY.

III. EVENT PROBABILITIES 29 JAN-31 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JAN 138

ESTIMATED 28 JAN 145

PREDICTED 29 JAN-31 JAN 152/159/164

90 DAY MEAN 27 JAN 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 JAN 014 AP 27 JAN 009

ESTIMATED AFR 27 JAN 008 AFR/AP/28 JAN 008/010

PREDICTED AFR/AP 29 JAN-31 JAN 010/010-008/010-008/010

SOLTERWARN

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HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 028B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 28/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW. HOWEVER, SEVERAL REGIONS ARE SHOWING TENDENCIES TOWARD BECOMING DYNAMIC. REGION 4073 (N05W08) WHILE DECLINING IN SPOT AREA HAS DEVELOPED INTO A BETA GAMMA WITH BRIGHT PLAGE IN THE VICINITY OF THESE TIGHT GRADIENTS. REGION 4075 (S14E51) IS PRODUCING SUBFLARE ACTIVITY ALONG WITH PLAGE FLUCTUATIONS AND POINT BRIGHTENINGS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW BUT AN INCREASE IN C CLASS FLARES MAY OCCUR.

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

III. EVENT PROBABILITIES: 29 JAN-31 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JAN 145

PREDICTED 29 JAN-31 JAN 152/159/164

90 DAY MEAN 28 JAN 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 JAN 009/009

ESTIMATED AFR/AP 28 JAN 006/010

PREDICTED AFR/AP 29 JAN-31 JAN 010/010-008/010-008/010

SOLTERWARN

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