

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 UNSETTLED. 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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