

BT  
HFUS 1 ROU 061300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 006A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 06 JAN 1933

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
05/1200Z TO 06/1200Z: SOLAR ACTIVITY HAS REMAINED VERY LOW THIS  
PERIOD, HOWEVER THE FREQUENCY OF THE SMALL SOLAR FLARES HAS  
INCREASED IN THE LAST FEW HOURS. THE LARGEST EVENT WAS A C1/SF  
FLARE FROM REGION 4048 (S14E44). THIS REGION HAS GROWN  
SIGNIFICANTLY IN WHITE LIGHT AREA AND DURING THE LAST HALF OF  
THE PERIOD HAS HAD AN ARCHED FILAMENT SYSTEM. ITS MAGNETIC  
GRADIENT HAS TIGHTENED DURING THE PERIOD AND IT IS CURRENTLY  
CLASSED AS A BETA-GAMMA GROUP, HOWEVER IT MAY BE TWO OR THREE  
GROUPS. REGION 4046 (S15W17) HAS HAD RESTRUCTURING AND SLIGHT  
GROWTH IN AREA IN WHITE LIGHT. ITS MAGNETIC GRADIENT HAS  
DECREASED BUT IT HAS HAD AN ARCHED FILAMENT SYSTEM FOR THE  
ENTIRE PERIOD. THREE REGIONS WERE NUMBERED THIS PERIOD. THESE  
ARE REGIONS 4051 (N11E57) A SMALL A TYPE, 4052 (S07E61) A SMALL  
H TYPE, AND REGION 4053 (S08E77) WHICH IS ROTATING ONTO THE  
DISK AND IS CURRENTLY AN H TYPE. THIS LAST REGION IS THE  
RETURN OF OLD REGION 4025 WHICH PRODUCED SEVERAL M AND X CLASS  
EVENTS DURING ITS LAST TRANSIT OF THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW TO LOW THROUGH THE PERIOD. THE POSSIBILITY OF AN M  
CLASS EVENT IS INCREASING AS REGION 4048 DEVELOPES, AND AS  
REGION 4053 ROTATES ONTO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED. ACTIVE CONDITIONS ARE EXPECTED ON THE 7TH AND  
THE 8TH IN RESPONSE TO A FAVORABLY LOCATED CORONAL HOLE.  
UNSETTLED CONDITIONS SHOULD THEN RETURN ON THE 9TH.

III. EVENT PROBABILITIES 07 JAN-09 JAN

CLASS M	30/40/40
CLASS X	01/05/05
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	05 JAN	150
ESTIMATED	06 JAN	175
PREDICTED	07 JAN-09 JAN	185/190/191
90 DAY MEAN	05 JAN	174

V. GEOMAGNETIC A INDICES

OBSERVED AFR	04 JAN	003	AP 05 JAN	008
ESTIMATED AFR	05 JAN	008	AFR/AP 06 JAN	010/015
PREDICTED AFR/AP	07 JAN-09 JAN	020/020-015/020-010/010		

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BT  
HFUS 3 BOU 062200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 006B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 06 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE FREQUENCY OF FLARES HAS CONTINUED TO INCREASE THE LARGEST BEING A C1/SF. REGION 4048 (S12E31 APPROXIMATE LOCATION) REMAINS THE MOST SIGNIFICANT REGION ON THE DISK, RETAINING THE SAME AREA AND MAGNETIC COMPLEXITY. REGIONS 4054 (S16E28 APPROXIMATE LOCATION) AN HX GROUP AND REGION 4055 (S12E13 APPROXIMATE LOCATION) AN AXX GROUP, ARE THE ONLY NEW REGIONS NUMBERED THIS PERIOD. ALL OTHER REGIONS ON THE DISK SHOW LITTLE POTENTIAL FOR MAJOR FLARE ACTIVITY AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. MODERATE LEVEL ACTIVITY IS POSSIBLE WITH FURTHER DEVELOPMENT WITHIN REGION 4048. THE INCREASE IN C LEVEL FLARE ACTIVITY MAY ALSO SHOW A TREND TOWARD MODERATE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED THIS PERIOD. THE LEVEL OF ACTIVITY SHOULD INCREASE ON THE SEVENTH OF JANUARY DUE TO THE CENTRAL MERIDIAN PASSAGE OF A CORONAL HOLE. THIS LEVEL SHOULD THEN DROP TO UNSETTLED CONDITIONS ON THE EIGHTH AND NINETH OF JANUARY.

III. EVENT PROBABILITIES 07 JAN-09 JAN

CLASS M 30/40/40  
CLASS X 01/05/05  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 06 JAN 170  
PREDICTED 07 JAN-09 JAN 185/190/191  
90 DAY MEAN 06 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 JAN 006/008  
ESTIMATED AFR/AP 06 JAN 010/015  
PREDICTED AFR/AP 07 JAN-09 JAN 020/020-015/020-010/010

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