

HFUS 1 BOU 241300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 024A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 24 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
23/1200Z TO 24/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS  
PERIOD. REGION 4071 (N09E75) PRODUCED THE LARGEST EVENTS OF THE  
LAST SEVEN DAYS A C3/SF, NO RADIO, AT 24/0916UT AND A C3/SF AT  
24/0956UT AGAIN NO RADIO. REGION 4071 IS NOW A C TYPE GROUP  
WITH BRIGHT PLAGE ALONG WITH MINOR SURGE ACTIVITY BEING  
OBSERVED.

A MINOR SURGE WAS REPORTED FROM SE15. THE REST OF THE DISK AND  
LIMBS HAVE BEEN OBSERVED AS STABLE OR SLIGHTLY DECAYED THIS  
PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE LOW DURING THIS FORECAST PERIOD. THE CURRENT REGIONS  
ON THE DISK ALONG WITH THE EXPECTED RETURN OF OLD ACTIVE  
REGIONS IS NOT EXPECTED TO INCREASE THE LEVEL OF ACTIVITY  
SIGNIFICANTLY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN GENERALLY UNSETTLED WITH AN OCCASIONAL SHORT PERIOD AT  
ACTIVE LEVELS. DUE TO LACK OF CORONAL HOLES IN THE PROPER  
POSITION, FILAMENTS WHICH HAVE DISRUPTED OR MAJOR FLARES THE  
FIELD IS EXPECTED TO REMAIN UNSETTLED WITH A TREND TOWARD QUIET  
AT THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 JAN-27 JAN

CLASS M	10/10/10
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	23 JAN	119
ESTIMATED	24 JAN	120
PREDICTED	25 JAN-27 JAN	120/115/112
90 DAY MEAN	23 JAN	173

V. GEOMAGNETIC A INDICES

OBSERVED AFR	22 JAN	009	AP 23 JAN	009
ESTIMATED AFR	23 JAN	009	AFR/AP 24 JAN	010/015
PREDICTED AFR/AP	25 JAN-27 JAN	012/015-010/015-008/015		

SOLTERWARN

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HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 024B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PERIOD. REGION 4071(N07E68) PRODUCED A C3 XRAY EVENT WITH THE OPTICAL UNCLASSIFIED AT ISSUE TIME. OTHER ACTIVITY CONSISTED OF LOW LEVEL C CLASS SUBFLARES. A NEW REGION 4072(S06E47) APPEARED AS A SIMPLE B CLASS SPOT GROUP TODAY AND FLARED VERY BRIEFLY AT 24/1802Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THE FORECAST PERIOD. NONE OF THE REGIONS CURRENTLY ON THE DISK OR ASSOCIATED WITH THE EXPECTED RETURN OF OLD ACTIVE REGIONS APPEARS CAPABLE OF SIGNIFICANT ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD CONTINUES UNSETTLED TO NEAR ACTIVE LEVELS WITH ISOLATED K-INDICES OF 4 AT MIDLATITUDE. UNSETTLED CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD TRENDING TOWARD QUIET.

III. EVENT PROBABILITIES 25 JAN-27 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JAN 118

PREDICTED 25 JAN-27 JAN 115/113/112

90 DAY MEAN 24 JAN 172

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 JAN 009/009

ESTIMATED AFR/AP 24 JAN 014/015

PREDICTED AFR/AP 25 JAN-27 JAN 012/015-010/015-008/015

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