

HFUS 1 BOU 181300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 018A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 18 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
17/1200Z TO 18/1200Z: SOLAR ACTIVITY WAS AGAIN LOW DURING THE  
PERIOD. ONLY MINOR SUBFLARES WITH LITTLE XRAY OR RADIO RESPONSE  
WERE OBSERVED FROM A VARIETY OF SMALL REGIONS. REGION 4064  
(N08E12) CONTINUES TO DISPLAY THE MOST MAGNETIC COMPLEXITY OF  
THESE REGIONS, BUT HAS REMAINED QUIET DURING THE 24 HOUR  
PERIOD. ITS WEAK DELTA CONFIGURATION HAS APPARENTLY DECAYED,  
BUT ITS MODERATE MAGNETIC GRADIENTS CONTINUE IN THE NORTHERN  
PORTION OF THE LEADER SPOTS. REGION 4065 (S13E17) IS THE ONLY  
DISK GROUP DISPLAYING ANY DYNAMICS WITH SLOW SPOT GROWTH AND A  
STRONG ARCH FILAMENT SYSTEM VISIBLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW.  
THERE ARE NO DISK REGIONS OR EXPECTED RETURNING REGIONS WHICH  
ARE CAPABLE OF ANYTHING MORE THAN SMALL C-CLASS XRAY EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT ACTIVE TO MINOR STORM LEVELS FOR MID-LATITUDE SITES  
WITH BRIEF PERIODS OF MAJOR STORM CONDITIONS REPORTED FOR  
HIGH-LATITUDE STATIONS. THE 09-12Z AND 12-15Z PERIODS HAVE BEEN  
THE MOST DISTURBED FOR ALL REPORTING SITES. THE FIELD SHOULD  
CONTINUE TO BE INFLUENCED BY THIS CORONAL HOLE INDUCED ACTIVITY  
FOR AT LEAST ANOTHER 48 TO 60 HOURS, BUT THE FREQUENCY OF THE  
BRIEF MINOR STORM LEVELS SHOULD DIMINISH. THE LAST DAY OF THE  
PERIOD IS EXPECTED TO BE UNSETLED.

III. EVENT PROBABILITIES 19 JAN-21 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JAN 143

ESTIMATED 18 JAN 145

PREDICTED 19 JAN-21 JAN 145/143/143

90 DAY MEAN 17 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 JAN 020 AP 17 JAN 025

ESTIMATED AFR 17 JAN 022 AFR/AP 18 JAN 020/020

PREDICTED AFR/AP 19 JAN-21 JAN 015/020-015/020-010/020

SOLTERWARN

BT

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 018B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4064 (N08E07) HAS AGAIN FORMED A WEAK DELTA CONFIGURATION BUT THE GROUP REMAINS BASICALLY BIPOLE AND IS GROWING SLOWLY. REGION 4065 (S14E12) IS ALSO GROWING SLOWLY AND HAS INCREASED IN ITS NUMBER OF SMALL SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW FOR THE NEXT THREE DAYS. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD CONTINUES ACTIVE. ACTIVE LEVELS ARE FORECAST TO CONTINUE FOR THE NEXT TWO DAYS DUE TO A CORONAL HOLE RELATED HIGH SPEED SOLAR WIND STREAM. INTERMITTENT PERIODS AT MINOR STORM LEVELS ARE PROBABLE DURING THAT TIME. UNSETLED TO ACTIVE CONDITIONS ARE EXPECTED FOR 21 JAN.

III. EVENT PROBABILITIES 19 JAN-21 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JAN 139

PREDICTED 19 JAN-21 JAN 135/133/133

90 DAY MEAN 18 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 JAN 020/025

ESTIMATED AFR/AP 18 JAN 023/030

PREDICTED AFR/AP 19 JAN-21 JAN 015/020-015/020-010/020

SOLTERWARN

BT