

HFUS 1 BOU 221300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 265A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 22 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
21/1200Z TO 22/1200Z: SOLAR ACTIVITY REMAINS LOW. SUBFAINT  
FLARES WERE OBSERVED IN REGIONS 3907(S12W32) AND 3908(N19W26).  
REGION 3910(N13W14) ALSO PRODUCED A SUBFAINT FLARE AND A C1/SN  
FLARE AT 21/1910Z AND A C2/SB FLARE AT 22/0920Z. NO OTHER  
SIGNIFICANT ACTIVITY HAS BEEN REPORTED. ALL REGIONS ARE  
MAGNETICALLY SIMPLE WITH SMALL GRADIENTS. REGION 3907 APPEARS  
TO BE RESTRUCTURING AND PERHAPS GROWING SLIGHTLY IN WHITE  
LIGHT. REMAINING REGIONS ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE LOW. RETURNING REGIONS ARE NOT EXPECTED TO CONTRIBUTE  
SIGNIFICANTLY TO ACTIVITY DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD  
INTENSIFIED TO MAJOR FROM MINOR STORM LEVELS AT THE BEGINNING  
OF THE UT DAY 22 SEPT. MAJOR STORM CONDITIONS ARE EXPECTED  
FOR MUCH OF THE DAY. MINOR STORM LEVELS SHOULD CONTINUE  
THROUGH THE MIDDLE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23 SEP-25 SEP

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

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEP 144  
ESTIMATED 22 SEP 143  
PREDICTED 23 SEP-25 SEP 142/140/138  
90 DAY MEAN 21 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 20 SEP 020 AP 21 SEP 055  
ESTIMATED AFR 21 SEP 044 AFR/AP 22 SEP 140/125  
PREDICTED AFR/AP 23 SEP-25 SEP 036/045-028/025-022/020

SOLTERWARN

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HFUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 265B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 22 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
22/1200Z TO 22/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THIS  
PERIOD. THE LARGEST FLARE WAS C3/SB FROM REGION 3910(N13W19).  
THIS REGION HAS MINOR AREAS OF MAGNETIC COMPLEXITY AND IS  
INTERACTING WITH SMALL REGION 3914(N16W13). REGION 3907(S11W39)  
CONTINUES WITH MINOR FLUX EMERGENCE AND AN ACTIVE FILAMENT, BUT  
REMAINS A SMALL REGION. MINOR NEW REGIONS HAVE APPEARED TODAY:  
REGIONS 3916(S18E56) AND 3917(N14E77).

IB. SOLAR ACTIVITY FORECAST: NO INCREASE IN ACTIVITY IS  
EXPECTED FOR THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE MAJOR GEOMAGNETIC  
STORM HAS DIMINISHED DURING THE PAST NINE HOURS. SOME INCREASE  
IN ACTIVITY IS EXPECTED AGAIN DURING LOCAL NIGHTTIME, BUT WITH  
MUCH LESS INTENSITY THAN EARLIER TODAY. ACTIVE TO MINOR STORM  
CONDITIONS ARE EXPECTED MOST OF THE FORECAST PERIOD AS HIGH  
SPEED SOLAR WIND ARRIVES FROM LARGE CORONAL HOLES.

III. EVENT PROBABILITIES 23 SEP-25 SEP

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 SEP 145

PREDICTED 23 SEP-25 SEP 142/140/138

90 DAY MEAN 22 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 SEP 053/055

ESTIMATED AFR/AP 22 SEP 078/125

PREDICTED AFR/AP 23 SEP-25 SEP 036/045-028/020-022/020

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