

HFUS 1 BOU 071300 COR  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 219A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 07 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
06/1200Z TO 07/1200Z:

SOLAR ACTIVITY HAS BEEN LOW. REGION 3257 (S09E46) REMAINS STABLE,  
COMPLEX AND HAS A SIGNIFICANT MAGNETIC GRADIENT WITH MULTIPLE  
DELTA'S. REGION 3247 (N16W69) APPEARS SOMEWHAT SIMPLIFIED. ONLY  
A SMALL NUMBER OF C CLASS SUBFLARES HAVE BEEN OBSERVED. THE  
REMAINING REGIONS ON THE DISK ARE SIMPLE AND APPEAR RELATIVELY  
INSIGNIFICANT.

IB. SOLAR ACTIVITY FORECAST:

BOTH REGIONS 3257 AND 3247 ARE CAPABLE OF SIGNIFICANT ACTIVITY.  
OBSERVATIONS OF 3257 WOULD SUGGEST CAPACITY FOR ONE OR MORE  
MAJOR FLARES. PERHAPS INCREASED ACTIVITY FROM THIS REGION WILL  
OCCUR WITH ONSET OF DECLINE PHASE. WITH THAT POSSIBILITY SOLAR  
ACTIVITY IS EXPECTED TO BE MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE MINOR STORM TO ACTIVE LEVELS OBSERVED EARLY ON 06  
AUGUST DECLINED RAPIDLY TO NEAR QUIET LEVELS EARLY ON 07 AUG.  
ACTIVITY MAY BE EXPECTED AT UNSETTLED LEVELS DURING THE FORE-  
CAST PERIOD.

III. EVENT PROBABILITIES: 08-10 AUG

CLASS M 20/80/80

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 AUG 170

ESTIMATED 07 AUG 170

PREDICTED 08-10 AUG 168/165/165

90 DAY MEAN 06 AUG 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 AUG 16 AP 06 AUG 26

ESTIMATED AFR 06 AUG 15 AFR/AP 07 AUG 08/10

PREDICTED AFR/AP 08-10 AUG 12/15 15/15 12/10

SOLTERWARN

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HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 219E

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 07 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
07/1200Z TO 07/2100Z:

SOLAR ACTIVITY WAS AT MODERATE LEVELS DURING THE PERIOD. FOLLOWING  
SEVERAL SUBFLARES, REGION 3257 (S10E27) PRODUCED A LONG LIVED  
M4/2B FLARE AT 1916 UT (MAX). THIS FLARE WAS ACCOMPANIED BY A  
MODERATE TYPE IV AND 10 CM BURST OF 480 F.U. REGION 3257, ALTHOUGH  
UNDERGOING MINOR EVOLUTION, APPEARS TO HAVE REACHED MATURITY AND  
EARLY STAGES OF DECAY ARE APPARENT. GRADIENTS IN THIS REGION HAVE  
CONTINUED A SLOW DECLINE BUT FIELD STRENGTHS REMAIN HIGH AND DELTA  
CONFIGURATIONS ALSO REMAIN. REGION 3259 (N25E55) HAS EXHIBITED A  
MODERATE GROWTH TREND AND PRODUCED SEVERAL SUBFLARES.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD CONTINUE AT MODERATE LEVELS WITH 3257 REMAINING  
THE PRIME SOURCE REGION. LARGE AREA/LARGE INTEGRATED FLUX FLARES  
SHOULD CONTINUE FROM REGION 3257 BUT ON AN INCREASINGLY INFREQUENT  
BASIS AS DECAY BEGINS. NO SIGNIFICANT REGIONS ARE EXPECTED TO  
RETURN DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE LAST NINE HOURS.  
UNSETTLED CONDITIONS SHOULD PREVAIL UNTIL MIDDAY ON 9 AUGUST WHEN  
ACTIVE LEVELS SHOULD BE EXPERIENCED THROUGH THE END OF THE FORECAST  
PERIOD DUE TO THE M4 FLARE TODAY. IT IS LIKELY THAT PARTICLES  
WERE ACCELERATED BY THIS FLARE BUT APPARENT PROPAGATION PATHS DO NOT  
INDICATE TERRESTRIAL INTERCEPTION OF THIS STREAM.

III. EVENT PROBABILITIES: 08 - 10 AUGUST

CLASS M 90/90/85

CLASS X 10/10/10

PROTON 20/15/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 07 AUGUST 168

PREDICTED 08 - 10 AUGUST 168/165/165

90 DAY MEAN 07 AUGUST 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 AUGUST 15/26

ESTIMATED AFR/AP 07 AUGUST 10/12

PREDICTED AFR/AP 08 - 10 AUGUST 12/15 25/25 20/25

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