

HFUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO  
SDF NUMBER 161B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0200 UT 10 JUNE 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200 UT  
TO 10/2200 UT: SOLAR ACTIVITY HAS BEEN LOW SINCE 10/1200 UT. ONLY  
ONE SUBFAINT FLARE OCCURRED IN THIS TIME PERIOD IN REGION 3157  
**(N13E17)**. THIS REGION IS SHOWING SIGNS OF CONTINUING GROWTH AND  
INCREASED ACTIVITY. REGION 3152 (N13E17) REMAINS THE DOMINANT  
REGION ON THE DISK. ONE NEW REGION WAS NUMBERED TODAY, 3159  
(S25E75).

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW.  
HOWEVER, AN M-CLASS X-RAY FLARE IS STILL POSSIBLE DUE PRIMARILY  
TO SOME RESIDUAL POTENTIAL SUSTAINED IN REGION 3152.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN QUIET FOR THE PAST 24 HOURS. UNSETTLED TO ACTIVE CONDITIONS  
ARE EXPECTED TO GRADUALLY COMMENCE LATE 11 JUNE IN RESPONSE TO A  
CORONAL HOLE AND REMAIN ACTIVE FOR THE FORECAST PERIOD DUE TO A  
CONTRIBUTION MADE BY A STRONG SECTOR BOUNDARY.

IV. EVENT PROBABILITIES (11 JUNE - 13 JUNE)

CLASS M 25/30/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 10 JUNE 152

PREDICTED 11-13 JUNE 156/160/163

90-DAY MEAN 10 JUNE 199

VI. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 JUNE 07/06

ESTIMATED AFR/AP 10 JUNE 07/08

PREDICTED AFR/AP 11-13 JUNE 15/20 - 15/20 - 15/20

SOLTERWARN

BT

HFUS-1 RCU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 161A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 10 JUNE 1981

I.A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200UT TO 10/1200UT:

SOLAR ACTIVITY ROSE INTO THE MODERATE CATEGORY FOR THE FIRST TIME IN ALMOST TWO WEEKS WITH THE OCCURRENCE OF AN M2/1B IN REGION 3152 (N12E02) AT 10/0628UT MAXIMUM. ASSOCIATED WITH THIS FLARE WAS A LARGE RADIO BURST OF 30,000 FLUX UNITS AT 245MHZ WITH MODERATE BURSTS RECORDED THROUGH THE REMAINING 7 FREQUENCIES, IMPORTANCE I SHORT WAVE FADES, AND A STRONG TYPE II SWEEP. THIS REGION IS UNDERGOING SLOW GROWTH, BUT IS NOT OVERLY IMPRESSIVE IN EITHER SIZE OR MAGNETIC COMPLEXITY DISPLAYING A WEAK BETA-GAMMA CONFIGURATION. REGION 3158 (S23E64) HAS PRODUCED SEVERAL C-CLASS SUBFLARES DURING ITS SLOW GROWTH, WHILE REPORTS OF SURGING AT S25 EAST LIMB INDICATE YET ANOTHER REGION COMING INTO VIEW.

I.B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW. REGIONS 3152 AND 3158 DO NOT APPEAR CAPABLE OF SUSTAINED MODERATE ACTIVITY, BUT WILL PROBABLY MANAGE ONLY AN INFREQUENT M-CLASS EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS. QUIET TO UNSETLED CONDITIONS ARE EXPECTED FOR THE REMAINDER OF THE UT DAY, FOLLOWED BY NEAR ACTIVE CONDITIONS TOMORROW DUE TO THE EFFECTS OF A FAVORABLY LOCATED CORONAL HOLE.

III. EVENT PROBABILITIES: 11 JUNE - 13 JUNE

CLASS M 25/30/35

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PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 09 JUNE 148

ESTIMATED 10 JUNE 153

PREDICTED 11-13 JUNE 156/160/163

90 DAY MEAN 09 JUNE 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 JUNE 19 AP 09 JUNE 06

ESTIMATED AFR 09 JUNE 07 AFR/AP 10 JUNE 07/08

PREDICTED AFR/AP 11-13 JUNE 15/20 15/20 15/20

SOLTEWMARN

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