

HEUS 3 PCU 092200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDE NUMBER: 160-B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200 UT 09 JUNE 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200 UT TO 09/2200 UT: SOLAR ACTIVITY HAS BEEN LOW SINCE 09/1200 UT. ONLY SUNFLARES OCCURRED TODAY IN REGIONS 3152 (N12E29) AND A NEW REGION NUMBERED TODAY AS 3158 (S23E71). TODAYS LARGEST FLARE WAS A C5/SR AT 09/1438 FROM REGION 3152. REGION 3145 (S09W20) DECAYED TODAY, BUT REGIONS 3152 AND 3158 BOTH BECAME INCREASINGLY ERUPTIVE.

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. LARGE C-CLASS X-RAY FLARES ARE PROBABLE FROM REGIONS 3152 AND 3158 AND EITHER MAY PRODUCE AN ISOLATED M-CLASS EVENT BEFORE THE END OF THE FORECAST PERIOD.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED TO QUIET DURING THE PAST 24 HOURS. UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 24 HOURS FOLLOWED BY ACTIVE CONDITIONS FOR 11 AND 12 JUNE DUE TO A CORONAL HOLE.

IV. EVENT PROBABILITIES 10 JUNE - 12 JUNE

CLASS M 20/25/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 09 JUNE 148

PREDICTED 10-12 JUNE 153/156/160

90-DAY MEAN 09 JUNE 199

VI. GEOMAGNETIC A INDEXES

OBSERVED AFR/AP 08 JUNE 19/14

ESTIMATED AFR/AP 09 JUNE 07/08

PREDICTED AFR/AP 10-12 JUNE 12/12 - 15/20 - 15/20

SOLAR WARN

BT

HRUS 1 POU 091300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDE NUMBER 160A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 09 JUNE 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
08/1200UT TO 09/1200UT:

SOLAR ACTIVITY CONTINUES AT A LOW LEVEL. THE ONLY ACTIVITY  
RECORDED DURING THE PAST 24 HOURS HAS BEEN LOW LEVELS C-CLASS  
X-RAY EVENTS. ALTHOUGH MOST WERE UNGEOMAGNETICALLY CORRELATED, POSSIBLY DUE TO  
SEEING CONDITIONS AT THE OBSERVATORIES, ONE EVENT, A C1/1B  
WAS OBSERVED AT 0920UT MAXIMUM NEAR S10-15, E90 WHERE A NEW  
REGION (3158) IS ROTATING INTO VIEW. REPORTS ON THIS REGION  
INDICATE IT IS FAIRLY COMPLEX. REGION 3152 (N12E37) HAS BEEN  
QUIET, BUT SLOW GROWTH CONTINUES, WHILE REGION 3145 (S09W14)  
HAS BEGUN TO DECAY.

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD CONTINUE LOW. THE EAST LIMB ACTIVITY  
DOES NOT APPEAR SIGNIFICANT ENOUGH TO PRODUCE M-CLASS ACTIVITY.  
AN ISOLATED M-CLASS EVENT FROM 3152 IS POSSIBLE IF GROWTH  
CONTINUES.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED DURING THE PAST 24  
HOURS. SIMILAR CONDITIONS ARE EXPECTED FOR THE NEXT 24 HOURS  
GIVING WAY GRADUALLY TO ACTIVE CONDITIONS ON THE 11TH IN  
RESPONSE TO A SMALL CORONAL HOLE NOW LOCATED AT N38W04.

IV. EVENT PROBABILITIES: - 10 JUNE - 12 JUNE

CLASS M 20/25/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

V. OTTAWA 10.7 FLUX

OBSERVED 08 JUNE 144

ESTIMATED 09 JUNE 148

PREDICTED 10-12 JUNE 153/156/160

90 DAY MEAN 08 JUNE 200

VI. GEOMAGNETIC INDICES

OBSERVED AFR 07 JUNE 42 AP 08 JUNE 14

ESTIMATED AFR 08 JUNE 16 AFR/AP 09 JUNE 10/10

PREDICTED AFR/AP 10-12 JUNE 12/12, 15/20, 15/20

SOLTERWARN

PT