

HFUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 246A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 SEP 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

02/1200Z TO 03/1200Z:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.  
ONLY SMALL C-CLASS EVENTS, FROM FIVE REGIONS, HAVE BEEN  
RECORDED. THE LARGEST WAS A C2/SF FROM REGION 3310 (S06E30)  
AT 03/0505UT. REGION 3310 HAS CONTINUED TO EXHIBIT GROWTH IN  
BOTH SIZE AND MAGNETIC COMPLEXITY. THE REST OF THE REGIONS  
ARE STABLE OR SHOWING SIGNS OF DECAY.

IB. SOLAR ACTIVITY FORECAST:

MODERATE ACTIVITY IS EXPECTED AS REGIONS 3300 (S12W39) AND  
3310 CONTINUE TO DEVELOP IN MAGNETIC COMPLEXITY. REGION 3300  
(S12W05) COULD PRODUCE AN ISOLATED X-CLASS EVENT IF RAPID  
CHANGE OCCURS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS ACTIVE DURING THE FIRST PROTION OF  
THE PERIOD AND UNSETLED DURING THE REMAINDER. THE LARGE  
NEGATIVE CORONAL HOLE IN THE NORTH WEST IS ON ITS THIRD DISK  
TRANSIENT WITH ONLY MINOR MAGNETIC ACTIVITY ATTRIBUTABLE TO  
ITS PREVIOUS ROTATIONS. THE GEOMAGNETIC FIELD IS EXPECTED TO  
BE UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 04-06 SEP

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 SEP 239

ESTIMATED 03 SEP 234

PREDICTED 04-06 SEP 230/225/218

90 DAY MEAN 02 SEP 193

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 SEP 05 AP 02 SEP 23

ESTIMATED AFR 02 SEP 20 AFR/AP 03 SEP 08/12

PREDICTED AFR/AP 04-06 SEP 10/12 10/12 14/20

SOLTERWARN

PT

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 246B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 03 SEPTEMBER 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 03/2100Z : SOLAR ACTIVITY REMAINS LOW. THE LARGEST EVENT WAS A C5 (1521Z X-RAY MAX) ASSOCIATED WITH A LONG-LIVED SN FLARE IN REGION 3300 (S12W32). MT. WILSON HAS THE MAIN PENUMBRA IN REGION 3310 (S09E17) SEPARATED THUS DISSOLVING THE DELTA CONFIGURATION. THE E-W NEUTRAL LINE THROUGH THE MAIN PENUMBRAL AREA REMAINS. EITHER NO CHANGE OR DECAY IS OCCURRING IN THE OTHER DISK REGIONS. BRIGHT SURGING HAS OCCURRED ALL DAY AT NE 08. THE SAC PEAK CALCIUM SPECTROGRAM FOR TODAY SHOWS A SMALL BRIGHT PLAGE ON THE LIMB.

I B. SOLAR ACTIVITY FORECAST : SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. ISOLATED CLASS M ACTIVITY IS POSSIBLE FROM REGIONS 3300 AND 3310.

II. GEOPHYSICAL SUMMARY AND FORECAST : THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS EXPECTED TO BE UNSETTLED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 SEPTEMBER - 06 SEPTEMBER

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM. FLUX

OBSERVED 03 SEPTEMBER 225

PREDICTED 04-06 SEPTEMBER 225/225/225

90-DAY MEAN 03 SEPTEMBER 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 SEPTEMBER 20/23

ESTIMATED AFR/AP 03 SEPTEMBER 09/12

PREDICTED AFR/AP 04-06 SEPTEMBER 10/12 - 10/12 - 14/20

SOLFERWARN

BT