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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SER NUMBER 24SA

JOURNAL USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 SEP 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
05/1200Z TO 06/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE WITH THREE M-CLASS EVENTS  
OBSERVED. REGION 3317 (N10E56) PRODUCED A M2/IN AT 05/1910UT  
ACCOMPANIED BY STRONG SHORTWAVE FADE AT 15 MHZ. REGION 3300  
(S12W67) HAD TWO M-EVENTS THE LARGEST A M8/1B OCCURRED AT  
05/2355UT, ONLY MINOR CENTIMETRIC RADIO BURSTS WERE OBSERVED,  
23 FLUX UNITS AT 2695 MHZ. A WEAK TYPE II AND A POSSIBLE TYPE IV  
SWEEPS WERE ALSO RECORDED. NEW EMERGING FLUX AROUND REGIONS  
3300 AND 3310 WILL CONTINUE TO INCREASE THE MAGNETIC GRADIENTS OF  
THE REGIONS AND CONTINUE THE UNSTABLE CONDITIONS. REGION 3317  
HAS ALMOST DOUBLED SIZE AND IS A F-TYPE GROUP. REGION 3314  
(S17W10) HAS INCREASED IS MAGNETIC COMPLEXITY.

IR. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST  
PERIOD. REGION 3317 AND 3310 (S10W19) ARE BOTH PROVEN M-CLASS  
EVENT PRODUCERS. REGION 3300 IS EXPECTED TO CONTINUE TO CHANGE  
AND MAY PRODUCE AND ISOLATED X-EVENT. REGION 3314 HAS THE  
POTENTIAL TO PRODUCE LARGE C-CLASS EVENTS AND WITH ITS PROXIMITY  
TO REGION 3310 IT MAY TRIGGER A LARGE EVENT FROM 3310.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE  
PAST 24 HOURS. THE FIELD IS EXPECTED TO BECOME ACTIVE LATE ON  
06 SEP THROUGH 07 SEP THEN UNSETTLED DURING THE REST OF THE  
FORECAST PERIOD. ANY EFFECTS OF THE M8 EVENT ARE NOT EXPECTED  
BEFORE 10 SEP. NO PROTONS HAVE BEEN OBSERVED DURING THE PAST  
24 HOURS.

III. EVENT PROBABILITIES: 07 - 09 SEP

CLASS M 85/85/85

CLASS X 10/10/10

PROTON .5/15/15

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 05 SEP 245

ESTIMATED 06 SEP 250

PREDICTED 07-09 SEP 252/245/240

90 DAY MEAN 05 SEP 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 SEP 09 AP 05 SEP 17

ESTIMATED AFR 05 SEP 19 AFR/AP 06 SEP 14/17

PREDICTED AFR/AP 07-09 SEP 18/20 12/12 10/12

SOLTERWAPN

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HFUS-3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 249B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 06 SEPTEMBER 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW THE LAST 9 HOURS WITH X-RAY BURSTS CONFINED TO MID-LEVEL CLASS C EVENTS. CONSIDERING THAT REGIONS 3300 (S13W73), 3310 (S11W23), 3314 (S17W15), AND 3317 (N09E50) ARE ALL MAGNETICALLY COMPLEX, SOLAR ACTIVITY HAS BEEN OMINOUSLY QUIET. OF THESE REGIONS, 3317 CONTAINS THE GREATEST DEGREE OF COMPLEXITY. REGIONS 3325 (N18E15) AND 3326 (N19E34) HAVE ERUPTED QUICKLY TODAY.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE.

I I. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETLED. THE FIELD IS EXPECTED TO BE UNSETLED TO ACTIVE DURING THE NEXT 24 HOURS AND THEN UNSETLED FOR THE BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 07 SEPTEMBER - 09 SEPTEMBER

CLASS M 65/85/85

CLASS X 10/10/10

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7UCM FLUX

OBSERVED 06 SEPTEMBER 260

PREDICTED 07-09 SEPTEMBER 268/272/272

90-DAY MEAN 06 SEPTEMBER 197

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 SEPTEMBER 20/17

ESTIMATED AFR/AP 06 SEPTEMBER 10/10

PREDICTED AFR/AP 07-09 SEPTEMBER 18/20 - 12/12 - 10/12

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