

HFUS 1 BOU 241240

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 267A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 24 SEPT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

23/1200Z TO 24/1200Z:

SOLAR ACTIVITY HAS BEEN LOW. MOST REGIONS ON THE VISIBLE DISK ARE UNIMPRESSIVE. REGIONS 3344 (N11W30), 3347 (S08W17) REMAIN THE MOST SIGNIFICANT. BOTH ARE IN DECLINE, DECREASING IN AREA AND NUMBER OF SPOTS AND SIMPLIFYING MAGNETICALLY. ACTIVITY DURING THIS PERIOD HAS BEEN RESTRICTED TO SMALL C CLASS XRAY EVENTS WITH TWO UNASSOCIATED DISCRETE BURSTS AT 245 MHZ. THE LARGEST, AT 23/2355 BEING 300 FLUX UNITS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY MAY BE EXPECTED TO REMAIN AT LOW LEVELS PENDING POSSIBLE ACTIVITY FROM REGIONS YET TO RETURN, NOTABLY OLD REGION 3310 DUE BACK ON 26 SEPT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE REPORT INTERVAL. IT IS EXPECTED TO REMAIN UNSETTLED APPROACHING QUIET LEVELS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 25 - 27 SEPT

CLASS M 30/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 SEP 183

ESTIMATED 24 SEP 180

PREDICTED 25-27 SEP 178/176/180

90 DAY MEAN 23 SEP 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 SEP 12 AP 23 SEP 06

ESTIMATED AFR 23 SEP 07 AFR/AP 24 SEP 08/08

PREDICTED AFR/AP 25-27 SEP 08/10 08/08 08/07

SOLTERWARN

BT

RUN "SDF  
 COMMAND? T  
 HFUS 3 BOU 242200  
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
 SDF NUMBER 267B  
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
 ISSUED 2200Z 24 SEP 1981  
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO  
 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW. TWO SUBFLARES WERE REPORTED IN  
 REGION 3344 (N10W37) AT 1904Z AND 1939Z. THIS REGION CONTINUES TO  
 DECAY SLOWLY. ALL OTHER REGIONS ARE STABLE OR DECLINING. TWO SMALL  
 NEW REGIONS WERE NUMBERED, REGION 3363 (S07E45) AND 3364 (S14E59).  
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW  
 WITH THE POSSIBILITY OF INCREASING ACTIVITY ON 26 SEP WHEN OLD  
 PREVIOUSLY ACTIVE REGION 3310 (S10) RETURNS.  
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN  
 UNSETTLED THE PAST 10 HOURS. UNSETTLED TO QUIET CONDITIONS ARE  
 EXPECTED DURING THE FORECAST PERIOD.  
 III. EVENT PROBABILITIES 25 SEP-27 SEP  
 CLASS M 30/30/30  
 CLASS X 01/01/01  
 PROTON 01/01/01  
 PCAF GREEN  
 IV. OTTAWA 10.7 CM FLUX  
 OBSERVED 24 SEP 181  
 PREDICTED 25 SEP-27 SEP 178/176/180  
 90 DAY MEAN 24 SEP 209  
 V. GEOMAGNETIC A INDICES  
 OBSERVED AFR/AP 23 SEP 006/006  
 ESTIMATED AFR/AP 24 SEP 009/010  
 PREDICTED AFR/AP 25 SEP-27 SEP 008/010-008/008-008/007  
 SOLTERWARN  
 BT

HXUS BOU 242200  
 PREDM 03025 03026 03027  
 PREDX 00125 00126 00127  
 PREDP 00125 00126 00127  
 PCAFT 00125  
 TENCN 17825 17626 18027  
 AFRED 00825 00826 00827  
 APAPF 01025 00826 00727  
 BT