

HFXS 1 BOU 121300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 071A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 12 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/1200Z TO 12/1200Z: SOLAR ACTIVITY HAS CONTINUED AT LOW LEVELS. C-CLASS SUBFLARES HAVE BEEN OCCURRING AT THE RATE OF ONE EVERY 2 TO 3 HOURS, BUT NONE OF THESE EVENTS HAVE BEEN VERY NOTEWORTHY. TWO NEW REGIONS WERE NUMBERED YESTERDAY: 3643 (S04E67) AND 3644 (N06E68).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW LEVELS. ALL TEN REGIONS CURRENTLY ON THE SOLAR DISK HAVE LITTLE MAJOR FLARE POTENTIAL. REGION 3634 (N07W15) IS THE MOST LIKELY REGION TO PRODUCE ANY SIGNIFICANT ACTIVITY DURING THE NEXT 24 HOURS. WE FORECAST THE BACKGROUND 10.7 CM FLUX TO BOTTOM OUT DURING THE NEXT 3 TO 4 DAYS BEFORE INCREASING ONCE AGAIN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT MOSTLY QUIET LEVELS DURING THE LAST 24 HOURS. IT NOW APPEARS THAT THE CORONAL HOLE IN THE SOUTHWEST SOLAR QUADRANT WILL NOT BE BRINGING THE HIGH SPEED STREAMS AND ACTIVE LEVELS PREVIOUSLY EXPECTED. THE SOLAR WIND SPEED, AS INDICATED BY THE ISEE-3 SATELLITE, IS CURRENTLY LESS THAN 350 KM/SEC.

III. EVENT PROBABILITIES 13 MAR-15 MAR

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 MAR 181

ESTIMATED 12 MAR 178

PREDICTED 13 MAR-15 MAR 175/172/172

90 DAY MEAN 11 MAR 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR 10 MAR 013 AP 11 MAR 012

ESTIMATED AFR 11 MAR 011 AFR/AP 12 MAR 006/012

PREDICTED AFR/AP 13 MAR-15 MAR 010/012-010/012-010/012

SOLTERWARN

BT

HFXS BOU 121300

PREDM 02013 02014 02015

PREDX 00113 00114 00115

PREDP 00113 00114 00115

PCAFT 00113

TENCM 17513 17214 17215

AFRED 01013 01014 01015

AFAPF 01213 01214 01215

KKK 12233 32223 33332

BT

HXUS"3 BOU 122200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 071B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 12 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/1200Z TO 12/2100Z: SOLAR ACTIVITY CONTINUES LOW WITH ONLY SMALL CLASS C SUBFLARES BEING OBSERVED. GROWTH HAS BEEN REPORTED IN REGIONS 3646 (N24W07), 3639 (N14E42), AND 3643 (S04E61) BUT NO SIGNIFICANT INCREASES IN MAGNETIC COMPLEXITY HAVE BEEN REPORTED. AGAIN TODAY, SEVERAL NEW REGIONS HAVE BEEN NUMBERED - 3645 (N11W26), 3646, 3647 (N15E54), AND 3648 (S12E86). OF THESE ONLY 3648 IS OF INTEREST AS ONLY A LEADING H TYPE SPOT IS VISIBLE AT THIS TIME WITH MORE SPOTS POSSIBLY TRAILING. HOWEVER, THE ASSOCIATED PLAGE IS DULL AND NO ACTIVITY HAS BEEN REPORTED FROM THIS AREA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW FOR THE NEXT THREE DAYS. WITH MAGNETICALLY SIMPLE REGIONS CURRENTLY ON THE DISK AND NO LARGE REGIONS EXPECTED TO RETURN, CLASS M FLARES SHOULD BE OBSERVED ONLY INFREQUENTLY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS AT ACTIVE LEVELS BETWEEN 1500-1800UT BUT HAS BECOME UNSETTLED SINCE THAT TIME. SOLAR WIND DATA AND THE BREVITY OF THE DISTURBANCE INDICATE IT WAS NOT CORONAL HOLE RELATED. SINCE THE EXPECTED HIGH SPEED SOLAR WIND STREAM HAS APPARENTLY MISSED THE EARTH, UNSETTLED GEOMAGNETIC CONDITIONS ARE FORECAST FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 13 MAR-15 MAR

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 MAR 183

PREDICTED 13 MAR-15 MAR 180/178/170

90 DAY MEAN 12 MAR 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 MAR 008/012

ESTIMATED AFR/AP 12 MAR 010/009

PREDICTED AFR/AP 13 MAR-15 MAR 012/012-010/012-010/010

SOLTERWARN

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HXUS BOU 122200  
PREDM 02013 02014 02015  
PREDX 00113 00114 00115  
PREDP 00113 00114 00115  
PCAFT 00113  
TENCM 18013 17814 17015  
AFRED 01213 01014 01015  
AFAPP 01213 01214 01015

BT