

HFUS 1 BOU 101400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 069A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 10 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
09/1200UT TO 10/1200UT:

SOLAR ACTIVITY HAS BEEN AT LOW TO MODERATE LEVELS. REGION 2971 (N08E18) HAS ACCOUNTED FOR THE MAJORITY OF THE ACTIVITY DURING THIS PERIOD. THE ONLY M-CLASS EVENT WAS AN M1/1B FLARE AT 09/1900UT. THIS FLARE HAD MULTIPLE ERUPTIVE CENTERS AND WAS SOMEWHAT LONG-LIVED. GROWTH IN THIS REGION HAS FINALLY SLOWED DOWN. THE OTHER NINE REGIONS ON THE SUN ARE QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. UNLESS GROWTH IN REGION 2971 PICKS UP AGAIN, ONLY VERY ISOLATED (ONE/DAY) M-CLASS ACTIVITY CAN BE EXPECTED. THE EASTERN LIMB OF THE SUN APPEARS QUIET AND NO SIGNIFICANT RETURNING REGIONS ARE EXPECTED FOR SEVERAL DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS REMAINED AT QUIET LEVELS. THE FIELD IS EXPECTED TO BE QUIET TO UNSETLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 11-13 MARCH

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 09 MAR 206

ESTIMATED 10 MAR 210

PREDICTED 11-13 MAR 210/210/210

90 DAY MEAN 09 MAR 205

V. GEOMAGNETIC INDICES

OBSERVED AFR 08 MAR 09 AP 09 MAR 06

ESTIMATED AFR 09 MAR 04 AFR/AP 10 MAR 06/08

PREDICTED AFR/AP 11-13 MAR 08/08 08/08 08/08

SOLTERWARN

BT

HFXUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SD F NUMBER 069B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200UT 10 MARCH 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
10/1200UT TO 10/2200UT:

SOLAR ACTIVITY HAS BEEN REMARKABLY LOW DURING THE PAST 10  
HOURS. ONLY LOW LEVEL CLASS C X-RAY BURSTS HAVE OCCURRED.  
REGION 2964 (S04W36) HAS A BETA GAMMA CONFIGURATION BUT A  
WEAK GRADIENT. REGION 2971 (N07E14) CONTINUES A SLOW GROWTH,  
BUT MAGNETIC COMPLEXITY AND MAGNETIC GRADIENT ARE INCREASING AT  
A STRONGER RATE.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETLED. THE FIELD  
IS EXPECTED TO REMAIN QUIET TO UNSETLED THROUGH THE NEXT THREE  
DAYS.

III. EVENT PROBABILITIES: 11-13 MAR

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 10 MAR 206

PREDICTED 11-13 MAR 210/210/210

90 DAY MEAN 10 MAR 205

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 09 MAR 06/06

ESTIMATED AFR/AP 10 MAR 07/09

PREDICTED AFR/AP 11-13 MAR 08/08 08/08 08/08

SOLTERWARN

BT

HXUS BOU 102132

FED M 05 011 05 012 05 013