

HFUS 1 BOU 111400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 070A

Joint USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUE D 1200UT 11 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
10/1200UT TO 11/1200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ONLY SMALL C-CLASS EVENTS HAVE BEEN RECORDED. REGIONS 2971 (N07E07), 2964 (S04W43), 2973 (N09E3), 2963 (N2SW30) AND 2966 (N2 W20) HAVE ALL PRODUCED OPTICAL FLARES THIS PERIOD. A SLOW RISING C7 EVENT, THE LARGEST EVENT THIS PERIOD, BEGAN AT 09 49UT WITH MAXIMUM AT 1041UT. THE EVENT IS BELIEVED TO HAVE BEEN CAUSED BY A 1F FROM REGION 2966, HOWEVER OPTICAL PATROL WAS LOST PRIOR TO X-RAY MAXIMUM. REGION 2971 HAS SHOWN CONTINUED GROWTH AND REGION 2964 HAS DECAYED SLIGHTLY. THE OTHER REGIONS ARE STABLE OR LITTLE CHANGED. REGION 2979 WAS NUMBERED IN ERROR AND IS OLD REGION 2968.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO LOW TO MODERATE. REGION 2971 IS EXPECTED TO BE THE M-CLASS PRODUCER, HOWEVER REGION 2964 IS CAPABLE OF A ISOLATED EVENT IF RAPID DECAY IN THE REGION OCCURS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT OR NEAR QUIET LEVELS.

LITTLE CHANGE IS EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 12-14 MARCH

CLASS M 40/ 0/ 0

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 10 MAR 206

ESTIMATED 11 MAR 210

PREDICTED 12-14 MAR 210/210/20

90 DAY MEAN 10 MAR 20

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 MAR 06 AP 10 MAR 10

ESTIMATED AFR 10 MAR 06 AFR/AP 11 MAR 07/08

PREDICTED AFR/AP 12-14 MAR 07/03 08/03 07/0

SOLTERWARN

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HFUS 3 BOU 112200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SD F NUMBER 07CB

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0200UT 11 MAR 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

11/1200UT TO 11/2200UT :

SOLAR ACTIVITY HAS BEEN LOW SINCE 11/1200UT WITH ONLY SUBFLARES COMING FROM REGIONS 2964 (S04W52), 2971 (N08W02), AND 2975 (S05E40). REGION 2971 IS STILL THE MOST ACTIVE REGION ON THE DISK BUT LOST ITS DELTA MAGNETIC CONFIGURATION TODAY. THREE NEW REGIONS WERE CONFIRMED TODAY, 2979 (N18W02), 2980 (S20E50), AND 2981 (S09E54).

IB. SOLAR ACTIVITY FORECAST :

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. M-CLASS X-RAY FLARES ARE STILL MOST LIKELY IN REGION 2971. ALTHOUGH REGION 2964 DECAYED TODAY, IT MAINTAINED ITS ERUPTIVE NATURE AND MAY POSSESS A SOMEWHAT REDUCED POTENTIAL FOR AN ISOLATED M-CLASS FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST :

THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS AND IS EXPECTED TO REMAIN QUIET TO MILDLY UNSETLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES : 12 - 14 MAR

CLASS M 40/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 11 MAR 204

PREDICTED 12-14 MAR 200/197/194

90 DAY MEAN 11 MAR 205

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 10 MAR 09/10

ESTIMATED AFR/AP 11 MAR 07/09

PREDICTED AFR/AP 12-14 MAR 07/08 08/08 07/05

SOLTERWARN

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