

HFUS 1 BOU 121400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SD F NUMBER 071A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 12 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
11/1200UT TO 12/1200UT:

SOLAR ACTIVITY HAS REMAINED LOW DURING THIS PERIOD. ONLY SMALL C-CLASS EVENTS HAVE BEEN RECORDED. REGION 2971 (N07W08) APPARENTLY HAS STABILIZED AND NO LONGER CONTAINS A DELTA MAGNETIC CONFIGURATION. REGION 2975 (S05E33) HAS EXHIBITED SOME MINOR GROWTH AND CONTAINS ARCH FILAMENTS. REGION 2964 (S04W59) CONTINUES TO SLOWLY DECAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW DURING THE FORECAST PERIOD. THE POTENTIAL FOR M-CLASS ACTIVITY HAS DECREASED AS MOST OF THE REGIONS ARE STABLE OR SHOWING LITTLE CHANGE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT OR NEAR QUIET LEVELS DURING THE PERIOD. THE FIELD IS EXPECTED TO BE LITTLE CHANGED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 13-15 MARCH

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 11 MAR 204

ESTIMATED 12 MAR 200

PREDICTED 13-15 MAR 197/194/193

90 DAY MEAN 11 MAR 205

V. GEOMAGNETIC A INDICES

OBSERVED AFR 10 MAR 09 AP 11 MAR 09

ESTIMATED AFR 11 MAR 07 AFR/AP 12 MAR 07/08

PREDICTED AFR/AP 13-15 MAR 08/08 07/05 09/10

SOLTERWARN

BT

HEUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 071B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 12 MARCH 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

12/1200UT TO 12/2200UT:

SOLAR ACTIVITY HAS BEEN LOW SINCE 12/1200UT. SEVERAL SUBFLARES OCCURRED IN REGION 2975 (S06E26) TODAY, BUT THE MOST SIGNIFICANT EVENT WAS A C7/1N AT 12/1756 UT FROM REGION 2971 (N06W15). THIS EVENT WAS ACCCOMPANIED BY A SHORT WAVE FADE AND SEVERAL SMALL RADIO BURSTS. ONE NEW REGION WAS CONFIRMED TODAY, 2982 (N14E54).

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE NEXT THREE DAYS. REGION 2975 HAS GROWN AND, SHOULD GROWTH CONTINUE, MAY ACQUIRE THE POTENTIAL FOR AN ISOLATED M-CLASS X-RAY EVENT IN ADDITION TO THE POTENTIAL ALREADY IN REGION 2971.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS. A SUDDEN IMPULSE WAS OBSERVED AT 1825 UT, FOLLOWED BY A RESUMPTION OF UNSETTLED CONDITIONS. THE FIELD IS EXPECTED TO REMAIN UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 13 - 15 MAR

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 12 MAR 191

PREDICTED 13-15 MAR 185/178/174

90 DAY MEAN 12 MAR 205

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 11 MAR 07/09

ESTIMATED AFR/AP 12 MAR 09/09

PREDICTED AFR/AP 13-15 MAR 08/08 07/05 09/10

SOLTERWARN

PT