

HFUS 1 BOU 031400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 034A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 03 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
02/1200UT TO 03/1200UT:

SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. REGION 2918 (S12W08) PRODUCED A M1/2B FLARE AT 02/1708Z. SHORT-WAVE FADE WAS MODERATE THROUGH 12 MHZ WITH THIS FLARE. SUBSEQUENT X-RAY BURSTS HAVE REMAINED IN THE LOWER HALF OF THE CLASS C CATEGORY. REGIONS 2918 AND 2916 (N15W16) ARE RESTRUCTURING IN MAGNETIC ALIGNMENT. BOTH OF THESE REGIONS APPEAR CAPABLE OF ISOLATED ENERGETIC FLARE ACTIVITY. REGION 2926 (S15E07) AND 2927 (N05E77) WERE ADDED 02 FEBRUARY. OBSERVATORY REPORTS THIS DAY INDICATE MORE STRUCTURE ROTATING ON TO THE DISK BEHIND REGION 2927. ADDITIONALLY, EMERGING FLUX IS REPORTED NEAR S15W56 AND S15E32.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT THREE DAYS WITH ISOLATED ENERGETIC FLARES PROBABLE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE THE PAST 24 HOURS. THE FIELD FOR THE NEXT THREE DAYS IS EXPECTED TO BE GENERALLY UNSETTLED BUT INTERSPERSED WITH SHORT PERIODS OF ACTIVE CONDITIONS.

III. EVENT PROBABILITIES: 04 - 06 FEB

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 FEB 216

ESTIMATED 03 FEB 216

PREDICTED 04-06 FEB 218/220/220

90 DAY MEAN 02 FEB 206

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 FEB 13 AP 02 FEB 18

ESTIMATED AFR 02 FEB 20 AFR/AP 03 FEB 12/21

PREDICTED AFR/AP 04-06 FEB 12/18 10/10 12/12

SOLTERWARN

BT

HFUS 3 BOU 032200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 034B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 03 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
03/1200UT TO 03/2200UT:

SOLAR ACTIVITY REMAINED AT LOW TO MODERATE LEVELS. THE MOST
INTERESTING EVENT WAS AN M-1 XRAY BURST FROM UNKNOWN SOURCES
THAT BEGAN NEAR 031801U.T. AND WAS STILL ABOVE HALF POWER AT
031900U.T. THE ONLY OPTICAL REPORT WITH THIS EVENT WAS A BRIGH-
TENING IN REGION 2911 (S11W36). THE X-RAY BACKGROUND HAS BEEN
WELL ABOVE C-XRAY LEVELS FOR MOST OF THE DAY. TWO SMALL NEW
REGIONS WERE NUMBERED TODAY; 2928 (S15W63) AND 2929 (S13E23).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY MAY INCREASE SLIGHTLY AS A RESULT OF POSSIBLE
ADDITIONAL STRUCTURE COMING OVER THE EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE.
GENERALLY UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT
THREE DAYS.

III. EVENT PROBABILITIES: 04 FEB - 06 FEB

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 FEB 215

PREDICTED 04-06 FEB 218/220/220

90 DAY MEAN 03 FEB 205

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 FEB 22/18

ESTIMATED AFR/AP 03 FEB 13/13

PREDICTED AFR/AP 04-06 FEB 12/12 10/10 12/08

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