

HFUS 1 BOU 101300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 041A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 10 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
09/1200Z TO 10/1200Z: SOLAR ACTIVITY IS LOW. REGION 4279
(S18W56) IS THE LARGEST VISIBLE REGION AND THE ONLY ONE IN
EXCESS OF 50 MILLIONTHS IN SIZE. ALTHOUGH AN E TYPE GROUP, 4279
HAS NONE OF THE OTHER CHARACTERISTICS THAT WOULD SUGGEST THAT
IT WILL BECOME DYNAMIC. ONLY ONE CLASS C EVENT HAS BEEN
OBSERVED SINCE THIS TIME YESTERDAY. REGIONS NUMBERED SINCE
YESTERDAY INCLUDE 4086 (N06E60), 4087 (S04W21) AND 4088
(S12E65).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A
LOW LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETLED TO ACTIVE. THE FIELD IS APPARENTLY BEING
INFLUENCED BY AN EXTENDED CORONAL HOLE. THIS HOLE SHOULD GOVERN
THE FIELDS BEHAVIOR FOR THE NEXT SEVERAL DAYS.

III. EVENT PROBABILITIES 11 FEB-13 FEB

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 FEB 125

ESTIMATED 10 FEB 120

PREDICTED 11 FEB-13 FEB 116/114/111

90 DAY MEAN 09 FEB 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 FEB 016 AP 09 FEB 016

ESTIMATED AFR 09 FEB 011 AFR/AP 10 FEB 012/020

PREDICTED AFR/AP 11 FEB-13 FEB 015/015-019/020-012/025

EFFECTIVE 15 FEB 83 THIS REPORT WILL NO LONGER BE ISSUED

SOLTERWARN

BT

HFUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 041B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 10 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
10/1200Z TO 10/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE
PAST 9 HOURS. ONLY TWO GROUPS OF SPOTS ARE VISIBLE, REGION 4079
(S18W63) AND 4086 (N03E54). NO C-CLASS X-RAY EVENTS HAVE
OCCURRED, ALTHOUGH REGION 4081 (S08W48) PRODUCED A SUBNORMAL
FLARE MAXING AT 1803Z. AN EAST-WEST FILAMENT OF 10 DEGREES
LENGTH LOCATED NEAR N13W05 AT 1700Z ON 9 FEB WAS REPORTED
MISSING BY 1410Z TODAY. HOWEVER, COMPARISON OF A SERIES OF
H-ALPHA PHOTOS TAKEN ON 09 FEB SHOWS THAT THE FILAMENT WAS GONE
BY 1945Z YESTERDAY. TWO RIBBONS OF ENHANCED PLAGE PARALLELED
THE FILAMENT CHANNEL. THERE IS AN ACTIVE PROMINENCE ON THE
SOUTHEAST LIMB (SE19).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED FOR THE PAST 9 HOURS. UNSETTLED TO ACTIVE
CONDITIONS ARE EXPECTED THROUGHOUT THE FORECAST PERIOD IN
RESPONSE TO A POSITIVE-POLARITY, EQUATORIAL CORONAL HOLE WHICH
WAS POSITIONED NEAR CENTRAL MERIDIAN ON 8 FEB. POSSIBLE
EFFECTS OF THE FILAMENT DISAPPEARANCE COULD CONTRIBUTE TO
GEOMAGNETIC ACTIVITY ON 13 FEB.

III. EVENT PROBABILITIES 11 FEB-13 FEB

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 FEB 116

PREDICTED 11 FEB-13 FEB 110/105/100

90 DAY MEAN 10 FEB 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 FEB 010/016

ESTIMATED AFR/AP 10 FEB 020/020

PREDICTED AFR/AP 11 FEB-13 FEB 015/015-019/020-019/025

SOLTERWARN

END