

HFUS 1 BOU 091300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 068A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 09 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200Z TO 09/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE AS A RESULT OF REGION 3628
(N17W82) PRODUCING TWO CLASS-M EVENTS: M1/1950Z AND M6/2023Z
MAX. THIS REGION IS NOW CROSSING THE SOLAR WEST LIMB WITH
FREQUENT SURGE ACTIVITY. RADIO BURST ACTIVITY HAS BEEN MODEST
WITH THESE OPTICAL EVENTS. SUBFLARES HAVE BECOME MORE FREQUENT
IN REGION 3635(S06W16) AS A SMALL AREA OF NEW MAGNETIC FIELDS
HAS EMERGED NEAR THE LEADER SPOT. REGIONS 3629/3631(S15W50)
HAS DECAYED FURTHER, BUT ITS PLAGE REMAINS BRIGHT AND COMPACT
IN THE AREA OF 3631. ALL OTHER REGIONS ARE DECAYING AND OF
SIMPLE STRUCTURE. NO SIGN OF ANY NEW ACTIVITY NEARING EAST
LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
DECLINE SHARPLY AS REGION 3628 COMPLETES ITS LIMB TRANSIT AND
TO CONTINUE DECLINING AS REGIONS 3629/3631 CROSS WEST LIMB TWO
DAYS LATER. LONGITUDES OF ENHANCED ACTIVITY ARE DUE AT EAST
LIMB 11-12 MARCH. NO SIGNIFICANT ACTIVITY IS EXPECTED IN THIS
AREA UNTIL LATER IN ITS DISK TRANSIT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED ALL DAY. THE FORECASTED MAGNETIC STORM HAS NOT
YET ARRIVED. IF ACTIVITY DOES NOT INCREASE IN THE NEXT 6 HOURS
IT CAN BE ASSUMED THE SOLAR EJECTA OF 7 MARCH WERE DIRECTED
AWAY FROM EARTH. ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT
THREE DAYS ON THE BASIS OF RECURRENT CORONAL-HOLE-RELATED
ACTIVITY.

III. EVENT PROBABILITIES 10 MAR-12 MAR

CLASS M 40/30/20

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 MAR 216

ESTIMATED 09 MAR 200

PREDICTED 10 MAR-12 MAR 188/176/170

90 DAY MEAN 08 MAR 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 MAR 002 AP 08 MAR 012

ESTIMATED AFR 08 MAR 009 AFR/AP 09 MAR 015/018

PREDICTED AFR/AP 10 MAR-12 MAR 020/014-015/012-020/017

SOLTERWARN

BT

HXUS BOU 091300

PREDM 04010 03011 02012

PREDX 00510 00111 00112

PREDP 00510 00111 00112

PCAFT 00110

TENCM 18810 17611 17012

AFRED 02010 01511 02012

AFAPF 01410 01211 01712

KKK 44433 32333 33332

BT

HFUS 3 BOU 092200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 068B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 09 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
09/1200Z TO 09/2100Z: SOLAR ACTIVITY WAS LOW DURING THE PAST 9
HOURS. ONLY A COUPLE OF SMALL C-CLASS SUBFLARES HAVE BEEN SEEN
DURING THAT TIME. NEW REGIONS 3637 (N30E04), 3638 (S15W09) AND
3639 (N14E85) HAVE BEEN NUMBERED TODAY.

IR. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
DECLINE FURTHER OVER THE NEXT THREE DAYS AS THE REGION 3629
(S20W72)/3631 (S14W67) COMPLEX ROTATES OUT OF SIGHT OVER THE
WEST LIMB. LONGITUDES OF ENHANCED ACTIVITY ARE DUE AT EAST LIMB
ON 11-12 MARCH. NO SIGNIFICANT ACTIVITY IS EXPECTED IN THIS
AREA UNTIL LATER IN ITS DISK TRANSIT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO ACTIVE FOR THE PAST 9 HOURS. THE GEOMAGNETIC
STORM FORECAST AFTER THE X2 FLARE OF 07 MARCH HAS FAILED TO
MATERIALIZ. SINCE THERE WAS STRONG EVIDENCE FOR INTERPLANETARY
SHOCKWAVE FORMATION WITH THAT FLARE, IT IS NOW PRESUMED THAT
THE DISTURBANCE MISSED THE EARTH. ACTIVE CONDITIONS ARE
EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 10 MAR-12 MAR

CLASS M 40/30/20
CLASS X 05/01/01
PROTON 05/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 MAR 195
PREDICTED 10 MAR-12 MAR 188/176/170
90 DAY MEAN 09 MAR 197

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 MAR 010/012
ESTIMATED AFR/AP 09 MAR 018/018
PREDICTED AFR/AP 10 MAR-12 MAR 020/014-015/012-020/017

SOLTERWARN

BT

HXUS BOU 092200
PREDM 04010 03011 02012
PREDX 00510 00111 00112
PREDP 00510 00111 00112
PCAFT 00110
TENCM 18810 17611 17012
AFRED 02010 01511 02012
AFAPF 01410 01211 01712

BT