

HFXS 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 UNSETLED 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

PCAF 00110

TENCM 18810 17611 17012

AFRED 02010 01511 02012

AFAPF 01410 01211 01712

KKK 44433 32333 33332

BT

HFXS 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

I A. 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.

I B. 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 UNSETLED TO ACTIVE FOR THE PAST 9 HOURS. THE GEOMAGNETIC STORM FORECAST AFTER THE X2 FLARE OF 07 MARCH HAS FAILED TO MATERIALIZE. 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