

HFUS 1 BOU 081300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 067A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 08 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 08/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT WAS C7/SF FROM REGION 3628(N17W70) AT 0519Z. THIS REGION HAS DECAYED RAPIDLY SINCE ITS X2 EVENT YESTERDAY. THE DELTA CONFIGURATION HAS DISSIPATED. SIGNIFICANT DECAY HAS OCCURRED ALSO IN REGIONS 3629/3631(S17W47) WHERE ONLY 3631 RETAINS A CLASS E SPOT GROUP, BUT WITH DIMINISHED AREA. IMPORTANT GROWTH HAS OCCURRED IN THE NW PORTION OF REGION 3634(N06E46), GIVING THIS REGION A SLIGHTLY MORE COMPLICATED CONFIGURATION. MINOR GROWTH CONTINUED IN SMALL REGION 3635(S06W04). A SMALL NEW REGION AT N28E23 HAS BEEN NUMBERED REGION 3637.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH ONLY ONE OR TWO SMALL CLASS M EVENTS IN THE NEXT THREE DAYS. NO ADDITIONAL PROTON EMISSION IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS WITH ONLY A SLIGHT INCREASE IN ACTIVITY OVER THE PREVIOUS DAY. A SUDDEN COMMENCEMENT OF GEOMAGNETIC STORM IS EXPECTED IN APPROXIMATELY 24 HOURS AS A CONSEQUENCE OF YESTERDAY'S X2 EVENT. CORONAL HOLE-RELATED RECURRENT ACTIVITY IS EXPECTED TO CONTINUE ACTIVE CONDITIONS INTO THE THIRD DAY.

III. EVENT PROBABILITIES 09 MAR-11 MAR

CLASS M 50/40/40

CLASS X 05/02/02

PROTON 05/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 MAR 232

ESTIMATED 08 MAR 216

PREDICTED 09 MAR-11 MAR 208/200/192

90 DAY MEAN 07 MAR 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 MAR 002 AP 07 MAR 004

ESTIMATED AFR 07 MAR 003 AFR/AP 08 MAR 005/008

PREDICTED AFR/AP 09 MAR-11 MAR 029/030-020/020-015/012

SOLTERWARN

BT

HXUS BOU 081300

PREDM 05009 04010 04011

PREDX 00509 00210 00211

PREDP 00509 00210 00211

PCAF 00109

TENCM 20809 20010 19211

AFRED 02909 02010 01511

AFAPF 03009 02010 01211

KKK 12255 43344 54322

BT

HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 967B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 08 MARCH 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 08/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 9 HOURS. REGION 3628 (N17W77) PRODUCED AN M6 FLARE AT 2010Z. A COUPLE OF OBSERVATORIES SAW THE FLARE THROUGH THE CLOUDS BUT COULD NOT GIVE AN ACCURATE OPTICAL REPORT OF IT. MODEST MICROWAVE BURSTS WERE RECORDED WITH THIS EVENT AT FREQUENCIES FROM 1415 MHZ TO 15400 MHZ. OTHER REGIONS HAVE BEEN ESSENTIALLY QUIET FOR THE PAST 9 HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO LOW DURING THE FORECAST PERIOD. AFTER REGION 3628 COMPLETES ITS DRAMATIC WEST LIMB EXIT, LITTLE M-CLASS FLARE ACTIVITY CAN BE EXPECTED FROM REGIONS CURRENTLY VISIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETLED DURING THE PAST 9 HOURS. A SUDDEN COMMENCEMENT OF GEOMAGNETIC ACTIVITY IS EXPECTED ABOUT 1200Z ON 09 MARCH AS A RESULT OF THE X2 FLARE OF 07 MARCH. EFFECTS OF THIS STORM AND CORONAL HOLE ASSOCIATED ACTIVITY SHOULD CONTINUE THROUGH 11 MARCH.

III. EVENT PROBABILITIES 09 MARCH - 11 MARCH

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|---------|----------|
| CLASS M | 50/40/40 |
| CLASS X | 05/02/02 |
| PROTON | 05/02/02 |
| PCAF | GREEN |

IV. OTTAWA 10.7 CM FLUX

| | |
|-----------|-------------------------|
| OBSERVED | 08 MARCH 216 |
| PREDICTED | 09-11 MARCH 208/200/192 |

90-DAY MEAN 08 MARCH 198

V. GEOMAGNETIC A INDICES

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|-----------------|----------------|
| OBSERVED AFR/AP | 07 MARCH 02/04 |
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|------------------|----------------|
| ESTIMATED AFR/AP | 08 MARCH 07/08 |
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| PREDICTED AFR/AP | 09-11 MARCH 29/30 - 20/20 - 15/12 |
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SOLTERWARN

BT