

BT
HFUS 1 BOU 071300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 066A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 07 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 07/1200Z: SOLAR ACTIVITY JUMPED TO HIGH WITH THE ERUPTION OF AN X2/2B FLARE AT 0308Z FROM REGION 3628(N17W56). THIS REGION HAS DISPLAYED A STRONG DELTA MAGNETIC CONFIGURATION, LARGE BRIGHT PLAGE AND CONVOLUTED NEUTRAL LINE FOR SEVERAL DAYS. THE FLARE WAS ACCOMPANIED BY 10 CM RADIO BURSTS OF 3500 FU(0309Z) AND 4200 FU(0529Z) AND STRONG TYPE II AND MOVING TYPE IV BURSTS. SHORTWAVE FADE OCCURRED TO 25 MHZ. WEATHER HAS PREVENTED SOLAR OPTICAL OBSERVATIONS FOR THE PAST 9 HOURS. THE LAST REPORTS INDICATED SLOW DECAY IN THE COMPLEX OF LARGE SPOTS IN REGIONS 3629/3631 (S17W32). REGION 3634(N05E51) IS A LARGE BUT SIMPLE BIPOLAR SPOT GROUP WITH NO SIGNIFICANT GROWTH REPORTED. REGION 3636 (S14E72) HAS A SMALL CLASS D SPOT GROUP IN A LARGE PLAGE. MINOR GROWTH HAS OCCURRED IN SMALL NEW REGION 3635(S05E11).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW WITH INTERMITTENT CLASS M EVENTS FROM ANY OF THREE POTENTIAL SITES. LACK OF SOLAR OBSERVATIONS PREVENTS DETAILED ASSESMENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS CONTINUED VERY QUIET FOR THE PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED FOR ANOTHER 24 HOURS. MINOR STORM CONDITIONS ARE EXPECTED ON 9 AND 10 MARCH, WITH A SUDDEN COMMENCEMENT NEAR MIDDAY ON 9 MARCH. AN INCREASE IN PROTONS AT ENERGIES UP TO 100 MEV WAS DETECTED BY 0330Z BUT COUNTS AT GT 10 MEV REMAINED BELOW EVENT THRESHOLD (10 CTS/SEC/STER) AS OF 08/1200Z.

III. EVENT PROBABILITIES: 08 MAR-10 MAR
CLASS M 70/60/50
CLASS X 15/10/05
PROTON 15/10/05
PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX
OBSERVED 06 MAR 241
ESTIMATED 07 MAR 235
PREDICTED 08 MAR-10 MAR 230/226/218
90 DAY MEAN 06 MAR 200

V. GEOMAGNETIC A INDICES
OBSERVED AFR 05 MAR 013 AP 06 MAR 004
ESTIMATED AFR 06 MAR 003 AFR/AP 07 MAR 003/010
PREDICTED AFR/AP 08 MAR-10 MAR 005/012-029/030-020/020
SOLTERWARN

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HXUS BOU 071300
PREDM 07008 06009 05010
PREDX 01508 01009 00510
PREDP 01508 01009 00510
PCAFT 00208
TENCM 23008 22609 21810
AFRED 00508 02909 02010
AFAPF 01208 03009 02010
KKK 11122 11112 25543

BT

HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 066B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 07/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 9 HOURS. THE STRONGEST EVENT WAS A C7 X-RAY BURST AT 07/1354Z. NO OPTICAL FLARE WAS REPORTED WITH THIS X-RAY EVENT BUT SMALL BURSTS WERE NOTED AT MICROWAVE FREQUENCIES. REGION 3628 (N17W62), WHICH PRODUCED AN X2 FLARE AT 07/0300Z, PRODUCED A C6/SN FLARE AT 1420Z. WHITE LIGHT DRAWINGS SUGGEST THAT THE DELTA CONFIGURATION, OBSERVED IN THIS REGION YESTERDAY, IS NO LONGER PRESENT. NO NEW REGIONS WERE SEEN TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW WITH ISOLATED CLASS M EVENTS POSSIBLE FROM REGION 3628 AND FROM THE REGION 3629 (S19W37)/3631 (S13W39) COMPLEX.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 9 HOURS. GENERALLY QUIET CONDITIONS SHOULD BE OBSERVED ON 08 MARCH. MINOR STORM CONDITIONS ARE EXPECTED ON 09 AND 10 MARCH, WITH A SUDDEN COMMENCEMENT EXPECTED NEAR MIDDAY ON 09 MARCH. A MINOR SATELLITE PROTON ENHANCEMENT FOLLOWED THE X2 FLARE, BUT COUNTS DID NOT EVEN COME CLOSE TO EVENT THRESHOLDS OF 10 PARTICLES/SECOND/STERADIAN.

III. EVENT PROBABILITIES 08 MAR-10 MAR

CLASS M 70/60/50

CLASS X 15/10/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 MAR 232

PREDICTED 08 MAR-10 MAR 226/219/210

90 DAY MEAN 07 MAR 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 MAR 002/004

ESTIMATED AFR/AP 07 MAR 003/006

PREDICTED AFR/AP 08 MAR-10 MAR 005/012-029/030-020/020

SOLTERWARN

BT

HXUS BOU 072200

PREDM 07008 06009 05010

PREDX 01508 01009 00510

PREDP 01508 01009 00510

PCAFT 00208

TENCM 22608 21909 21010

AFRED 00508 02909 02010

AFAPF 01208 03009 02010

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