

HFXS 1 BOU 141300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 104A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 14 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 14/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE WITH TWO M-CLASS FLARES OBSERVED WITHIN THE PAST 12 HOURS. THE LARGEST WAS AN M2/1B FROM REGION 3688 AT 14/0604Z MAXIMUM. REGION 3688 IS CURRENTLY LOCATED AT N16W27. THIS FLARE WAS ACCCOMPANIED BY MINOR DISCRETE FREQUENCY BURSTS. THE MORE OPTICALLY IMPRESSIVE FLARE WAS PRODUCED BY REGION 3684 (S26W07) AT 14/0259Z MAXIMUM. IT WAS AN M1/2B WHICH PRODUCED A 190 FLUX UNIT BURST AT 2695MHz AND A TYPE IV SWEEP. UMBRAL COVERAGE AND PARALLEL RIBBONS WERE OBSERVED WITH THIS FLARE. OF THE TWO REGIONS, 3688 REMAINS THE MORE IMPRESSIVE, WITH A POSSIBLE DELTA MAGNETIC CONFIGURATION AND CLOSE PROXIMITY TO REGION 3679 (N12W25). REGION 3684 IS A SMALL C-TYPE SPOT GROUP, BUT DOES CONTAIN STRONG GRADIENTS IN THE CENTRAL PORTION OF THE REGION AND CONTINUES TO GROW SLOWLY. MINOR FLARES HAVE BEEN PRODUCED BY REGIONS 3675 (S14W68), 3680 (S04W28) AND 3681 (S07W23). THE REMAINING NINE SPOTTED DISK REGIONS ARE SIMPLE AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE OCCASIONALY MODERATE WITH ISOLATED M-CLASS EVENTS FROM REGION 3688. REGION 3684 MAY PRODUCE ANOTHER MODERATE SIZED EVENT IF ITS GROWTH PATTERN CONTINUES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. QUIET TO UNSETLED CONDITIONS ARE EXPECTED UNTIL APRIL 17TH, WHEN ACTIVE LEVELS ARE FORECAST IN RESPONSE TO TODAY'S M-CLASS FLARES AND THE FILAMENT ERUPTION SOMETIME AFTER 0700Z ON APR 12TH.

III. EVENT PROBABILITIES: 15 APR-17 APR

CLASS M 70/70/50

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APR 170

ESTIMATED 14 APR 172

PREDICTED 15 APR-17 APR 170/168/165

90 DAY MEAN 13 APR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 APR 013 AP 13 APR 014

ESTIMATED AFR 13 APR 010 AFR/AP 14 APR 010/012

PREDICTED AFR/AP 15 APR-17 APR 008/012-012/013-018/023

SOLTERWARN

BT

HXUS BOU 141300
PREDM 07015 07016 05017
PREDX 00515 00516 00117
PREDP 00515 00516 00117
PCAFT 00115
TENCM 17015 16816 16517
AFRED 00815 01216 01817
AFAPF 01215 01316 02317
KKK 33233 32223 33332
BT

HFUS 3 BOU 142200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 104B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 14 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
14/1200Z TO 14/2100Z: SOLAR ACTIVITY WAS LOW FOR THIS PERIOD.
REGION 3682 (N03W21) HAD A C2/SN FLARE AND REGION 3684 (S27W15)
A SF OPTICAL FLARE. NO OTHER REGION WAS A SIGNIFICANT
CONTRIBUTOR DURING THIS TIME PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL BE LOW TO
MODERATE. REGION 3688, (N17W35) WITH ITS BG MAGNETIC
CONFIGURATION AND CLOSE AFFILIATION WITH REGION 3679 (N12W31),
SHOULD CONTINUE AS THE MOST VOLATILE REGION ON THE DISK. NO
OTHER REGION SHOWS PROMISE AS A SIGNIFICANT FLARE PRODUCER.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETLED FOR THIS PERIOD AND SHOULD REMAIN SO FOR THE
NEXT 48 HOURS.

III. EVENT PROBABILITIES 15 APR-17 APR

CLASS M 70/70/50

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APR 157

PREDICTED 15 APR-17 APR 152/148/148

90 DAY MEAN 14 APR 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 APR 012/014

ESTIMATED AFR/AP 14 APR 009/009

PREDICTED AFR/AP 15 APR-17 APR 008/012-012/013-018/023

SOLTERWARN

BT

HXUS BOU 142200
PREDM 07015 07016 05017
PREDX 00515 00516 00117
PREDP 00515 00516 00117
PCAF 00115
TENCM 15215 14816 14817
AFRED 00815 01216 01817
AFAPF 01215 01316 02317
BT