

HFUS 1 BOU 171300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 076A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 17 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200Z TO 17/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
PAST 24 HOURS. REGION 3643 (S06W01) PRODUCED A C9/1B EVENT AT
17/0236UT ONLY MINOR RADIO WAS OBSERVED. REGION 3643 CONTINUES
TO INCREASE IN SIZE AND MAGNETIC COMPLEXITY. THE NEXT LARGEST
EVENT WAS A C7, NO OPTICAL, AT 17/1108UT AND A PAIR OF C5 X-RAY
EVENTS FROM REGION 3649 (N14E17) AT 17/0151UT AND 17/0948UT.
TWO NEW REGIONS NUMBERED TODAY ARE 3651 (N03W02) AND 3652
(N04E82) BOTH ARE SIMPLE GROUPS AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE DURING THE FORECAST PERIOD. WITH CONTINUED GROWTH IN
3643, 3649 AND 3644 (N08E03) M-CLASS EVENTS ARE TO BE EXPECTED.
IF CHANGE CONTINUES IN REGION 3643 THEN ISOLATED X-CLASS EVENTS
COULD OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET DURING THE PAST 24 HOURS. IN RESPONSE TO AN
EQUATORIAL CORONAL HOLE AND A FILAMENT WHICH DISAPPEARED ON
15/2340UT THE FIELD IS EXPECTED TO BE ACTIVE WITH
PERIODS AT MINOR STORM LEVELS DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 18 MAR-20 MAR

CLASS M 60/60/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 MAR 230

ESTIMATED 17 MAR 232

PREDICTED 18 MAR-20 MAR 230/230/223

90 DAY MEAN 16 MAR 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 MAR 005 AP 16 MAR 006

ESTIMATED AFR 16 MAR 004 AFR/AP 17 MAR 007/008

PREDICTED AFR/AP 18 MAR-20 MAR 018/016-020/025-015/015

SOLTERWARN

BT

HXUS BOU 171300

PREDM 06018 06019 07020

PREDX 00518 00519 00520

PREDP 00518 00519 00520

PCAFT 00118

TENCM 23018 23019 22320

AFRED 01818 02019 01520

AFAPF 01618 02519 01520

KKK 23344 33333 34433

BT

HFUS 3 BOU 172200
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 076B
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 2200Z 17 MAR 1982
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 17/1200Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
 LAST NINE HOURS, CONFINED TO LOW LEVEL CLASS C X-RAY BURSTS AND
 SUBFLARES FROM REGIONS 3640 (N04W24), 3643 (S05W07), 3644
 (N08W02), AND 3649 (N14E13). OF THESE FOUR REGIONS, ONLY REGION
 3643 HAS SHOWN SOME ADDITIONAL SUNSPOT GROWTH DURING THE LAST
 24 HOURS. ALL FOUR REGIONS SHOULD CONTINUE WITH SUBFLARE
 ACTIVITY WITH REGION 3643 MOST LIKELY PRODUCING HIGHER
 ENERGETIC FLARES. REGIONS 3651 (N03W08) AND 3652 (N04E74) HAVE
 BEEN ADDED TODAY.
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
 MODERATE WITH REGION 3643 THE MAIN CONTRIBUTOR.
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
 BECAME ACTIVE AFTER 1200Z. ACTIVE CONDITIONS ARE EXPECTED TO
 CONTINUE THROUGH THE NEXT THREE DAYS.
 III. EVENT PROBABILITIES 18 MAR-20 MAR
 CLASS M 60/60/70
 CLASS X 05/05/05
 PROTON 05/05/05
 PCAF GREEN
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 17 MAR 233
 PREDICTED 18 MAR-20 MAR 230/230/223
 90 DAY MEAN 17 MAR 196
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR/AP 16 MAR 003/006
 ESTIMATED AFR/AP 17 MAR 013/008
 PREDICTED AFR/AP 18 MAR-20 MAR 018/016-020/018-015/015
 SOLTERWARN
 BT

HXUS BOU 172200
 PREDM 06018 06019 07020
 PREDX 00518 00519 00520
 PREDP 00518 00519 00520
 PCAFT 00118
 TENCN 23018 23019 22320
 AFRED 01818 02019 01520
 AFAPF 01618 01819 01520
 BT