

HFUS 1 BOU 111300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 070A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 11 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
10/1200Z TO 11/1200Z: SOLAR ACTIVITY WAS AT LOW LEVELS DURING
THIS PERIOD. THE LARGEST FLARE OF THE DAY WAS A C5/1B EVENT AT
10/1849Z FROM REGION 3635 (S10W41). THIS EVENT WAS ACCOMPANIED
BY TYPE II AND TYPE IV RADIO BURST SIGNATURES. A BRIGHT SURGE
ON THE WEST LIMB (N12) WAS OBSERVED FROM 11/0616 TO 0652Z,
EXTENDING OUT TO 0.24 SOLAR RADII, BUT NO XRAY FLUXES
ACCOMPANIED THIS EVENT. THE LARGEST REGION NOW ON THE SOLAR
DISK IS REGION 3634 (N06W01) WITH AN AREA OF 500 MILLIONTHS,
BUT THIS REGION IS MAGNETICALLY SIMPLE, AS ARE THE REST OF THE
REGIONS.

IB. SOLAR ACTIVITY FORECAST: WE EXPECT SOLAR ACTIVITY TO
CONTINUE AT LOW LEVELS. NO REGION ON THE SOLAR DISK APPEARS
CAPABLE OF PRODUCING M-CLASS FLARE ACTIVITY. FREQUENT C-CLASS
SUBFLARES, HOWEVER, CAN BE EXPECTED TO OCCUR DURING THE NEXT 3
DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
BRIEFLY AT ACTIVE LEVELS FROM 0300 TO 0700Z. OTHERWISE, QUIET
CONDITIONS HAVE PREVAILED. ACTIVE CONDITIONS ARE FORECAST FOR
12-13 MARCH, IN RESPONSE TO A CORONAL HOLE PASSAGE.

III. EVENT PROBABILITIES 12 MAR-14 MAR

CLASS M 40/30/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 MAR 184

ESTIMATED 11 MAR 175

PREDICTED 12 MAR-14 MAR 170/165/160

90 DAY MEAN 10 MAR 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 MAR 016 AP 10 MAR 016

ESTIMATED AFR 10 MAR 012 AFR/AP 11 MAR 015/012

PREDICTED AFR/AP 12 MAR-14 MAR 020/025-018/020-015/018

SOLTERWARN

BT

HXUS BOU 111300
PREDM 04012 03013 02014
PREDX 00112 00113 00114
PREDP 00112 00113 00114
PCAFT 00112
TENCM 17012 16513 16014
AFRED 02012 01813 01514
AFAPF 02512 02013 01814
KKK 22254 43334 44433
BT

AFAPF 03012 02513 02014

BT

HFUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 070B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
11/1200Z TO 11/2100Z: SOLAR ACTIVITY CONTINUES LOW. TWO SMALL
NEW REGIONS HAVE ROTATED INTO VIEW AND HAVE BEEN NUMBERED 3643
(S03E69) AND 3644 (N06E74). A NEW SMALL REGION IS EMERGING AT
N24E06. OTHER DISK REGIONS HAVE SHOWN EITHER VERY LITTLE
CHANGE OR SLOW DECAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW
FOR THE NEXT THREE DAYS. THERE IS ONLY A SLIGHT PROBABILITY OF
CLASS M FLARES BEING PRODUCED BY CURRENT DISK REGIONS. NO
SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN DURING THE
FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. ACTIVE CONDITIONS ARE EXPECTED TO BEGIN NEAR
MIDDAY ON 12 MARCH AND CONTINUE THROUGH 14 MARCH. A LARGE
CORONAL HOLE IN THE SOUTHWEST QUADRANT, ROOTED IN NEGATIVE
FIELDS AND APPROXIMATELY 60 DEGREES IN LONGITUDINAL EXTENT, IS
THE RATIONAL FOR THIS FORECAST.

III. EVENT PROBABILITIES 12 MAR-14 MAR

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 MAR 181

PREDICTED 12 MAR-14 MAR 176/170/167

90 DAY MEAN 11 MAR 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 MAR 013/016

ESTIMATED AFR/AP 11 MAR 011/012

PREDICTED AFR/AP 12 MAR-14 MAR 020/030-018/025-015/020

SOLTERWARN

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HYUS BOU 112200

PREDM 02012 02013 02014

PREDX 00112 00113 00114

PREDP 00112 00113 00114

PCAFT 00112

TENCM 17612 17013 16714

AFRED 02012 01813 01514

AFAPF 03012 02513 02014

BT