

HFUS 1 BOU 011300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 091A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 01 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
31/1200Z TO 01/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS
PERIOD DUE TO AN M7/1B FLARE IN REGION 3659(N11W48) AT 31/2227
UT. RESTRUCTURING OF THE LEADER SPOTS IN THIS REGION HAS
OCCURRED AND IT HAS NOT LOST THE FEATURES MARKING IT AS STILL
ACTIVE. LARGE C-CLASS X-RAY BURSTS HAVE BECOME COMMON IN REGION
3659. REGION 3662(S21W15) IS ERUPTIVE, PRODUCING SEVERAL SMALL
FLARES THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN MODERATE FOR THE FORECAST PERIOD DUE TO REGION 3659.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
UNSETTLED FOR THE PAST 24 HOURS. A MINOR GEOMAGNETIC STORM IS
EXPECTED TO COMMENCE LATE ON 1 APRIL DUE TO THE X2/3B FLARE
WHICH OCCURRED ON 30 MARCH. ACTIVE CONDITIONS SHOULD PREVAIL ON
3 APRIL, BECOMING UNSETTLED TO ACTIVE ON 4 APRIL.

III. EVENT PROBABILITIES 02 APR-04 APR

CLASS M 80/70/70

CLASS X 20/20/20

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAR 185

ESTIMATED 01 APR 180

PREDICTED 02 APR-04 APR 175/165/152

90 DAY MEAN 31 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 MAR 014 AP 31 MAR 021

ESTIMATED AFR 31 MAR 017 AFR/AP 01 APR 014/018

PREDICTED AFR/AP 02 APR-04 APR 030/035-017/020-014/015

SOLTERWARN

BT

HXUS BOU 011300

PREDM 03002 07003 07004

PREDX 02002 02003 02004

PREDP 01502 01503 01004

PCAFT 00202

TENCM 17502 16503 15204

AFRED 03002 01703 01404

AFAPF 03502 02003 01504

KKK 24455 43334 54332

RT

*RUN SDF

COMMAND? T

HFUS-3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 091B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 01/2100Z: SOLAR ACTIVITY WAS MODERATE DURING THIS PERIOD. REGION 3659 (N11W59) HAS PRODUCED A M1/SB AND A M4/1E FLARE. THE REGION STILL SHOWS A BETA-GAMMA-DELTA MAG TYPE THOUGH SHOWING SIGNS OF DECAY. THE REGION SHOULD CONTINUE AS A MODERATE FLARE CONTRIBUTOR UNTIL IT ROTATES OFF OF THE DISK. ONLY SPARSE ACTIVITY HAS OCCURED IN REGION 3667 (N18W09) AND REGION 3670 (S18E45). A NEW REGION 3671 (N04E70) WAS NUMBERED. IT HAS A HSX TYPE CONFIGURATION AND IS NOT THOUGHT TO BE A SIGNIFICANT FLARE PRODUCER.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL CONTINUE TO BE MODERATE. REGION 3659 SHOULD CONTINUE TO BE THE DOMINANT REGION ON THE DISK AND ACTIVITY SHOULD DECLINE WITH ITS TRANSIT FROM THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO OCCASIONALLY ACTIVE FOR THIS PERIOD AND WILL INCREASE IN INTENSITY TO ACTIVE OR MINOR STORM CONDITIONS FOR THE NEXT 24 HOURS. ACTIVE CONDITIONS WILL CONTINUE FOR 48 HOURS AFTER STORM CONDITIONS CEASE.

III. EVENT PROBABILITIES 02 APR-04 APR

CLASS M 80/70/60

CLASS X 20/15/10

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 APR 174

PREDICTED 02 APR-04 APR 165/155/150

90 DAY MEAN 01 APR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 MAR 019/021

ESTIMATED AFR/AP 01 APR 015/012

PREDICTED AFR/AP 02 APR-04 APR 030/035-017/020-018/015

SOLTERWARN

BT

HXUS BOU 012200

PREDM 08002 07003 06004

PREDX 02002 01503 01004

PREDP 01502 01003 00504

PCAFT 00202

TFNCM 16502 15503 15004

AFRED 03002 01703 01304

AFAPF 03502 02003 01504

BT