

HFUS 1 BOU 131300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 072A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 13 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
12/1200Z TO 13/1200Z: SOLAR ACTIVITY HAS CONTINUED AT LOW LEVELS
WITH ONLY MINOR C-CLASS XRAY EVENTS. CURRENTLY, THE ONLY TWO
NOTEWORTHY AREAS ON THE H-ALPHA SOLAR DISK ARE REGION 3634
(N06W29) AND THE EASTERN HEMISPHERE GROUP OF REGIONS,
SPOTLIGHTED BY REGION 3643 (S04E52).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS FORECAST TO CONTINUE AT LOW LEVELS. AT
PRESENT, ACTIVE REGIONS ARE LEAVING THE WEST LIMB AT ABOUT THE
SAME RATE THAT NEW REGIONS ARE APPEARING AT THE EAST LIMB, BUT
THERE IS STILL NO COMPLEXITY IN ANY REGION ON THE SUN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT UNSETTLED TO OCCASIONALLY ACTIVE LEVELS DURING THE LAST
24 HOURS. THE SOURCE OF THIS ACTIVITY IS UNKNOWN. MILDLY
UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 14 MAR-16 MAR

CLASS M 20/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 MAR 183

ESTIMATED 13 MAR 183

PREDICTED 14 MAR-16 MAR 178/175/178

90 DAY MEAN 12 MAR 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 MAR 008 AP 12 MAR 008

ESTIMATED AFR 12 MAR 010 AFR/AP 13 MAR 013/012

PREDICTED AFR/AP 14 MAR-16 MAR 010/012-010/010-010/012

SOLTERWARN

BT

HXUS BOU 131300

PREDM 02014 02015 03016

PREDX 00114 00115 00116

PREDP 00114 00115 00116

PCAFT 00114

TENCM 17814 17515 17816

AFRED 01014 01015 01016

AFAPF 01214 01015 01216

KKK 22333 22333 33222

BT

HRUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 072B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DUE TO AN M1 X-RAY BURST AT 13/1257UT. NO OPTICAL REPORTS WERE RECEIVED FOR THIS EVENT WHICH WAS ACCOMPANIED BY ONLY MINOR RADIO BURSTS. REGION 3643 (S06E47) IS GROWING RAPIDLY AND MAGNETIC DATA INDICATE A DELTA CONFIGURATION HAS FORMED IN THE TRAILER. REGION 3640 (N02E31) HAS INCREASED IN COMPLEXITY AND IS GROWING SLOWLY. WHILE SUNSPOT AREA HAS DECREASED IN REGION 3634 (N05W33), MAGNETIC GRADIENTS APPEAR TO HAVE INCREASED ALONG THE MAJOR NEUTRAL LINE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME GENERALLY LOW WITH INTERMITTENT CLASS M FLARES BEING OBSERVED. CONTINUED GROWTH IN 3643 AND 3640 COULD INCREASE CLASS M FLARE PRODUCTION. REGION 3634 COULD PRODUCE AN ISOLATED MID-CLASS M FLARE PRIOR TO ITS WEST LIMB TRANSIT. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED DURING THIS PERIOD TRENDING TOWARD QUIET. SLIGHTLY UNSETTLED CONDITIONS SHOULD PREVAIL UNTIL LATE ON 16 MARCH WHEN ONCE AGAIN A CORONAL HOLE RELATED GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN.

III. EVENT PROBABILITIES 14 MAR-16 MAR

CLASS M 40/40/50

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 MAR 188

PREDICTED 14 MAR-16 MAR 188/186/180

90 DAY MEAN 13 MAR 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 MAR 007/008

ESTIMATED AFR/AP 13 MAR 015/012

PREDICTED AFR/AP 14 MAR-16 MAR 008/012-008/010-012/012

SOLTERWARN

BT

HXUS BOU 132200

PREDM 04014 04015 05016

PREDX 00114 00115 00516

PREDP 00114 00115 00116

PCAF 00114

TENCM 18814 18615 18016

AFRED 00814 00815 01216

AFAPF 01214 01015 01216

BT