

HFUS 1 BOU 071416

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 066A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 07 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

06/1200UT TO 07/1200UT:

SOLAR ACTIVITY HAS REMAINED AT LOW TO MODERATE LEVELS, WITH ONLY ONE M-CLASS EVENT OBSERVED DURING THIS PERIOD. IT OCCURRED IN REGION 2954 (S18W84), AN M2/SN FLARE REACHING XRAY MAXIMUM AT 07/0638UT. REGION 2964 (S04E13) REMAINS THE MOST INTERESTING REGION, BUT IT APPEARS CAPABLE OF ONLY ISOLATED M-CLASS ACTIVITY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MOSTLY LOW LEVELS. AN ERUPTIVE PROMINENCE AT 06/1617UT ON THE SOUTHEAST LIMB COULD BE AN ACTIVE RETURNING REGION, BUT THE LOSS OF REGIONS 2954 AND 2958 (S13W63) WILL KEEP THE OVERALL MAJOR FLARE PROBABILITIES LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS MOSTLY BEEN AT UNSETTLED LEVELS. THERE WAS AN INCREASE IN ACTIVITY, HOWEVER, AT THE END OF THIS PERIOD, WHEN A K-INDEX OF FOUR WAS OBSERVED AT BOULDER. UNSETTLED CONDITIONS WITH BRIEF PERIODS OF HIGHER ACTIVITY ARE FORECAST.

III. EVENT PROBABILITIES: 08-10 MARCH

CLASS M 60/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 MAR 216

ESTIMATED 07 MAR 205

PREDICTED 08-10 MAR 195/190/190

90 DAY MEAN 06 MAR 204

V. GEOMAGNETIC INDICES

OBSERVED AFR 05 MAR 57 AP 06 MAR 08

ESTIMATED AFR 06 MAR 12 AFR/AP 07 MAR 15/15

PREDICTED AFR/AP 08-10 MAR 10/08 08/08 08/08

SOLTERWARN

BT

HRUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 066B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 07 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
07/1200UT TO 07/2200UT:

SOLAR ACTIVITY HAS CONTINUED AT LOW TO MODERATE LEVELS, WITH
THE OCCURRENCE OF ONLY SMALL ISOLATED RADIO EVENTS SINCE 1200UT.
DURING THE PAST ONE HOUR RGN 2964 (S04E06) HAS DISPLAYED AN
ARCH FILAMENT SYSTEM AND APPEARS TO BE UNDERGOING CHANGE THAT
WILL ALLOW M-CLASS FLARE ACTIVITY. NO OTHER ACTIVITY HAS OC-
CURRED SINCE 1200UT. NO NEW REGIONS HAVE APPEARED ON THE EAST
LIMB. ALL OTHER DISK AND LIMB REGIONS HAVE BEEN QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH THE
PROBABILITY OF M-CLASS X-RAY ACTIVITY FROM RGN 2964 AND POSSIBLY
FROM RGN 2958 (S12W71).

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS SINCE 1200UT
AND IS EXPECTED TO BECOME UNSETTLED DURING THE NEXT 12 HOURS
AND REMAIN AT UNSETTLED LEVELS DURING THE REMAINDER OF THE
3-DAY FORECAST PERIOD.

III. EVENT PROBABILITIES 08-10 MAR

CLASS M 60/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 07 MAR 205

PREDICTED 08-10 MAR 195/190/190

90 DAY MEAN 07 MAR 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 MAR 12/08

ESTIMATED AFR/AP 07 MAR 17/17

PREDICTED AFR/AP 08-10 MAR 10/08, 08/08, 08/08

SOLTERWARN

BT