

HFUS 1 BOU 211400
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 111A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 21 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200UT
TO 21/1200UT:

SOLAR ACTIVITY HAS BEEN HIGH DURING THE PAST 24 HOURS. A X1/2B
EVENT, FROM REGION 3035 (N14W93), WAS RECORDED AT 20/1621UT.
RADIO BURSTS ACROSS THE SPECTRUM, 240 FLUX UNITS AT 2695 MHZ,
A WEAK TYPE II SWEEP AND A STRONG SHORT WAVE FADE THROUGH 22 MHZ
WAS ALSO RECORDED WITH THE EVENT. ONLY SMALL C-CLASS EVENTS HAVE
BEEN REPORTED DURING THE REST OF THE PERIOD. REGION 3049 (N15W13)
HAS CONTINUED TO INCREASE IN BOTH SIZE AND COMPLEXITY AND HAS
PRODUCED THE LARGEST C-CLASS EVENT THIS PERIOD A C4/SN EVENT AT
21/0909UT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH A VERY ISOLATED CHANCE
OF AN X-CLASS EVENT FROM REGIONS 3038 (N10W82) AND 3035 AS THEY
TRANSIT THE WEST LIMB. AS LITTLE EVIDENCE EXISTS OF ACTIVE RETURNING
REGIONS ENERGETIC SOLAR ACTIVITY IS EXPECTED TO BE LIMITED TO
REGION 3049 WHICH MAY NOW HAVE A DELTA.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT OR NEAR MINOR STORM LEVELS THIS
PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE UNTIL ~~23~~ 23
APRIL WHEN GENERALLY UNSETTLED CONDITIONS ARE FORECAST.

III. EVENT PROBABILITIES: 22 - 24 APRIL

CLASS M 85/70/40

CLASS X 10/05/01

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 20 APR 199

ESTIMATED 21 APR 185

PREDICTED 22-24 APR 170/160/150

90 DAY MEAN 20 APR 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 APR 33 APR 20 APR 53

ESTIMATED AFR 20 APR 41 AFR/AP 21 APR 28/35

PREDICTED AFR/AP 22-24 APR 18/20 13/15 13/15

SOLTERWARN

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HEUS 3 BOU 212130

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDE NUMBER 111B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 21 APRIL 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

21/1200UT TO 21/2200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 10 HOURS. THE LARGEST X-RAY BURST WAS A C7 WITH MAXIMUM AT 1913Z. MAINTENANCE, COMMUNICATION, AND WEATHER PROBLEMS HAVE LIMITED OPTICAL REPORTS DURING THIS PERIOD. REGION 3049 (N15W19) CONTINUES TO GROW AND NOW CONTAINS A DELTA CONFIGURATION. REGIONS 3035 AND 3038 HAVE CROSSED WEST LIMB WITHOUT FURTHER ACTIVITY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH REGION 3049 DOMINATING THE FLARE PRODUCTION.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD CURRENTLY IS DIMINISHING FROM MINOR STORM TO ACTIVE CONDITIONS. THE FIELD IS EXPECTED TO REMAIN ACTIVE ON 22 APRIL AND THEN LESSEN TO UNSETTLED CONDITIONS.

III. EVENT PROBABILITIES: 22-24 APRIL

CLASS M 85/70/40

CLASS X 10/05/01

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 21 APR 194

PREDICTED 22-24 APR 185/180/175

90 DAY MEAN 21 APR 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 APR 43/53

ESTIMATED AFR/AP 21 APR 26/35

PREDICTED AFR/AP 22-24 APR 18/20 13/15 13/15

SOLTERWARN

BT