

HFUS 1 BOU 141400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 104A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 14 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
13/1200UT TO 14/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.
REGION 3027 (N18W58) PRODUCED AN M1/1N FLARE AT 13/1900UT
WHICH HAD SEVERAL ERUPTIVE CENTERS. A SECOND M-CLASS X-RAY
EVENT OCCURRED AT 13/2128UT BUT WAS NOT ASSOCIATED WITH AN
OPTICAL FLARE. MOST OF THE NUMBERED REGIONS HAVE SHOWN
GROWTH SINCE YESTERDAY WITH REGIONS 3038 (N10E11) AND 3045
(S07E39) SHOWING DRAMATIC GROWTH. REGION 3038 HAS BECOME
MAGNETICALLY COMPLEX AND MAY CONTAIN A DELTA CONFIGURATION.
REGION 3035 (N14W02) DID NOT PRODUCE SIGNIFICANT ACTIVITY
BUT REMAINS VERY DYNAMIC AND THE MOST INTERESTING GROUP ON
THE DISK. REGION 3026 (N07W75) HAS DECAYED AND IS NO
LONGER A MAJOR THREAT. SURGING WAS OBSERVED ON THE NORTH
AND SOUTHEAST LIMBS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH WITH REGIONS
3035, 3027, AND 3038 PROVIDING MOST OF THE ACTION. REGION
3035 IS STILL CAPABLE OF A PROTON PRODUCING FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS
FOR THE PAST 24 HOURS. CONDITIONS ARE EXPECTED TO DECLINE
TOWARD UNSETTLED FOR THE REMAINDER OF TODAY, BUT SHOULD THEN
INCREASE TOMORROW AND THE NEXT DAY IN RESPONSE TO RECENT FLARE
ACTIVITY. A SLOW DECREASE IN GEOMAGNETIC ACTIVITY WILL BEGIN
ON THE THIRD DAY.

III. EVENT PROBABILITIES: 15 - 17 APRIL

CLASS M 95/95/95

CLASS X 40/30/30

PROTON 40/30/30

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 13 APR 257

ESTIMATED 14 APR 255

PREDICTED 15-17 APR 245/235/230

90 DAY MEAN 13 APR 205

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 APR 57 APR 13 APR 74

ESTIMATED AFR 13 APR 105 AFR/AP 14 APR 23/30

PREDICTED AFR/AP 15-17 APR 30/20, 30/35 25/35

SOLTERWARN

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710

HFUS 3 BOU 14200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 104B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 14 APR 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
14/1200UT TO 14/2200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. ONLY SMALL
C-CLASS EVENTS HAVE BEEN RECORDED. THE LARGEST EVENT HAS
BEEN A C7/SR FROM REGION 3027 (N18W67) AT 14/2056UT. NEW
REGIONS TODAY ARE 3047 (S29E06) SIMPLE A TYPE, 3048 (N17E52)
B TYPE, 3049 (N13E76) C TYPE (MAY BE REVERSED POLARITY),
3050 (S11E77) H TYPE AND 3051 (N22E76) C TYPE.

IB. SOLAR ACTIVITY FORECAST:

THE SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH. REGION
3035 (N14W08) HAS THE POTENTIAL FOR AN ISOLATED X-EVENT. REGIONS
3027, 3038 (N10E05) AND REGION 3049 LOOK CAPABLE OF M-CLASS
EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN NEAR ACTIVE LEVELS DURING THIS
PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO INCREASE TO NEAR
MINOR STORM CONDITIONS DURING THE FORECAST PERIOD. THE AURORA
WAS VISIBLE FROM HOPART AUSTRALIA ON 13 APRIL FROM 1200-1400UT.
AURORA WAS SIGHTED AS FAR SOUTH AS 30 DEGREES NORTH FROM
0330-1000UT 13 APRIL THRU OUT NORTH AMERICA.

III. EVENT PROBABILITIES: 15-17 APRIL

CLASS M 95/95/95

CLASS X 40/30/30

PROTON 40/30/30

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 14 APR 258

PREDICTED 15-17 APR 260/260/260

90 DAY MEAN 14 APR 206

V. GEOMAGNETIC A INDICES

OBSERVED APR/AP 13 APR 121/74

ESTIMATED APR/AP 14 APR 19/30

PREDICTED APR/AP 15-17 APR 30/20 30/35 25/35

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