

HFUS 1 BOU 171400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 107A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 17 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200UT TO 17/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. THREE CLASS M EVENTS HAVE
OCCURRED IN THE PAST 24 HOURS: M2/2N AT 2244Z FROM REGION
3038 (N09W29), M1/1B AT 0353Z FROM REGION 3035 (N15W43) AND
M1/1B BEGAN AT 1214Z FROM REGION 3049 (N15E39) AND/OR
REGION 3051 (N24E42). ALL THESE REGIONS ARE COMPLEX AND ARE
ADDING SMALL NEW SPOTS. GROWTH IS ALSO REPORTED IN REGION
3045 (06W02). SURGES AND LOOPS HAVE MARKED WEST LIMB TRANSIT
OF REGION 3027 (N20).

IB. SOLAR ACTIVITY FORECAST:

SMALL CLASS M XRAY EVENTS ARE EXPECTED FROM THE TWO MAJOR
ACTIVITY COMPLEXES (3035-38-52 AND 3049-51). REGION 2999
IS DUE AT S44E90 TODAY, A SOURCE OF MAJOR ACTIVITY ON ITS
PREVIOUS DISK PASSAGE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD BECAME ACTIVE 06-12Z. UNSETTLED CONDITIONS
ARE EXPECTED TO PREVAIL FOR THE REMAINDER OF 17 APRIL. UNSETTLED
TO ACTIVE CONDITIONS ARE EXPECTED THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 18-20 APRIL

CLASS M 95/95/95

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 16 APRIL 248

ESTIMATED 17 APRIL 242

PREDICTED 18-20 APRIL 240/238/235

90 DAY MEAN 16 APRIL 208

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 APRIL 10 AP 16 APRIL 14

ESTIMATED AFR 16 APRIL 11 AFR/AP 17 APRIL 20/25

PREDICTED AFR/AP 18-20 APRIL 18/18 18/12 15/10

SOLTERWARN

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HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 107B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 17 APR 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
17/1200UT TO 17/2200UT:

SOLAR ACTIVITY HAS BEEN MODERATE SINCE 17/1200UT DUE TO A
LONG LIVED M1/IB AT 17/1242 UT FROM REGION 3049 (N15E33).
THIS REGION IS STILL REVERSE POLARITY. REGION 3035 (N15W48)
LOST ITS DELTA MAGNETIC CONFIGURATION, BUT 3038 (N10W36)
DEVELOPED A DELTA. REGION 3053 (N26W21) GREW TODAY. FOUR
NEW REGIONS WERE NUMBERED TODAY, 3055 (S06E14), 3056 (S23W19),
3057 (S15W08), AND 3058 (N19W32).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE DUE PRIMARILY TO
THE HISTORY AND SUSTAINED POTENTIAL OF REGIONS 3035, 3038, AND
3049. REGIONS 3045 (S06W09) AND 3048 (N18E10) ARE EXPECTED TO
BECOME ERUPTIVE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 24 HOURS
AND IS EXPECTED TO REMAIN SLIGHTLY ACTIVE TO UNSETTLED FOR
THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 18 APR - 20 APR

CLASS M 95/95/95

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 17 APR 241

PREDICTED 18-20 APR 240/238/235

90 DAY MEAN 17 APR 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 APR 11/14

ESTIMATED AFR/AP 17 APR 16/22

PREDICTED AFR/AP 18-20 APR 18/18 18/12 15/10

SOLTERWARN

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