

HFUS 1 BOU 051400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 095A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 05 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200UT TO 05/1200UT:

SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS.
REGION 3027 (N18E61) PRODUCED A M1/1N AT 04/2207Z (MAX). MINOR
CENTIMETRIC BURSTS ACCOMPANIED THIS FLARE. THIS REGION HAS A
LARGE SUNSPOT AREA (APPROX 1100 MILLIONTHS) AND A COMPLEX NEUTRAL
LINE. A C4/BRT SURGE (N22E74) AT 0935Z MAY INDICATE ANOTHER
REGION FOLLOWS 3027. A SLOW RISE/FALL C9 X-RAY BURST BEGAN AT
0021Z. PALEHUA FIRST REPORTED LOOPS AT 0116Z ABOVE DEPARTED
REGION 2999 (S43) AND LEARMONTH REPORTED THEM STILL VISIBLE,
BUT DISSIPATING, AT 0952Z. REGION 3022 (N05E19); 3025 (N08E35);
AND, 3026 (N09E49) ARE ALL REPORTED TO HAVE BRIGHT POINTS,
PLAGE FLUCTUATIONS, AND ARCH FILAMENT SYSTEMS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE AS THE COMPLEX OF
REGIONS IN THE NE QUADRANT CONTINUE THEIR STRUCTURAL CHANGES.
INTERACTION AMONG THESE REGIONS IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS UNSETTLED ON 04 APRIL BUT HAS BEEN
QUIET THIS ZULU DAY. THE FIELD IS EXPECTED TO BE QUIET TO UN-
SETTLED THROUGH THE NEXT 3 DAYS. SATELLITE PROTON FLUX VALUES
BEGAN TO RISE ON 30 MARCH FOLLOWING A FLARE IN REGION 2993.
SUBSEQUENT FLARES IN REGION 2999 MAINTAINED LOW LEVEL PROTON
FLUXES UNTIL 05/1030Z WHEN THEY DROPPED BELOW 1 P/CM2/SEC/STER.

III. EVENT PROBABILITIES: 06 - 08 APR

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 APR 220

ESTIMATED 05 APR 224

PREDICTED 06-08 APR 222/218/212

90 DAY MEAN 04 APR 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 APR 14 AP 04 APR 12

ESTIMATED AFR 04 APR 13 AFR/AP 05 APR 06/07

PREDICTED AFR/AP 06-08 APR 10/08 12/10 10/12

SOLTERWARN

BT

HFUS 3 BOU 052200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 095B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 05 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
05/1200UT TO 05/2200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 10 HOURS. THE LARGEST
XRAY EVENT OCCURRED AS A C7 FLARE AT 1909Z (MAX) IN REGION 3027
(N18E55) WHERE SLOW GROWTH CONTINUES IN A COMPLEX CLASS F SPOT
GROUP. IMPORTANT GROWTH CONTINUES NEAR REGION 3022 (N08E13) IN
A REGION NOW ASSIGNED NUMBER 3031 (N05E10). SOME SMALL EVENTS
HAVE OCCURRED THERE. THE NORTHEAST QUADRANT OF THE SUN IS FILLED
WITH A CHAIN OF SIX ACTIVITY CENTERS WITH EVIDENCE OF INTERACTION
AMONG THEM. A LARGE ERUPTIVE PROMINENCE WAS OBSERVED NEAR S05E90
IN PROGRESS AT 1400Z. NO SIGNIFICANT CHANGES HAVE BEEN OBSERVED
IN THE OTHER SMALL REGIONS ON THE DISK.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE AS OCCASIONAL EVENTS IN
REGIONS 3027 AND 3031.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 10 HOURS. QUIET
TO SLIGHTLY UNSETTLED CONDITIONS ARE EXPECTED DURING THE NEXT
THREE DAYS.

III. EVENT PROBABILITIES: 06 - 08 APRIL

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 APR 226

PREDICTED 06-08 APR 230/225/215

90 DAY MEAN 05 APR 197

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 APR 11/12

ESTIMATED AFR/AP 05 APR 05/09

PREDICTED AFR/AP 06-08 APR 10/08 12/10 10/11

SOLTERWARN

BT