

WFUS 1 BOU 061400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 096 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 06 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

05/1200 UT TO 06/1200 UT:

SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE LARGEST EVENT, A SLOW RISE/FALL M1 WITH MAX AT 0857Z, WAS ASSOCIATED WITH AN ERUPTIVE PROMINENCE (.35R) AT NE 28. AN ERUPTIVE PROMINENCE (.35R) NEAR SE 10 WAS ASSOCIATED WITH A SLOW RISE/FALL C4 WITH MAX AT 05/1358Z. NO SIGNIFICANT OLD REGION IS DUE BACK DURING THE NEXT 36 HOURS. REGION 3027 (N19E49) PRODUCED C7/SN (05/1909Z X-RAY MAX) AND C7/SN (06/0728Z X-RAY MAX). BOTH THESE EVENTS WERE SLOW RISE/FALL X-RAY BURSTS. REGION 3027 DOES NOT APPEAR TO HAVE CHANGED SIGNIFICANTLY DURING THE PAST 24 HOURS; IT STILL RETAINS ITS COMPLEX STRUCTURE. NO SIGNIFICANT CHANGES HAVE BEEN REPORTED FOR THE OTHER REGIONS. BOULDER IS OBSERVING LOOPS NEAR NE20 AT 1420Z.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED TO PERSIST THROUGH THE NEXT 3 DAYS.

III. EVENT PROBABILITIES: 07 - 09 APR

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 APR 226

ESTIMATED 06 APR 225

PREDICTED 07-09 APR 222/220/220

90 DAY MEAN 05 APR 197

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 APR 11 AP 05 APR 07

ESTIMATED AFR 05 APR 06 AFR/AP 06 APR 10/08

PREDICTED AFR/AP 07-09 APR 12/10 10/12 10/12

SOLTERWARN

BT

HFUS 3 BOU 062111

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 096B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 06 APRIL 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
06/1200UT TO 06/2200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 10 HOURS. EVOLUTION
HAS BECOME SLOW IN ALL VISIBLE REGIONS. THE MOST ACTIVE
APPEARING PORTIONS OF THE LARGE ACTIVITY COMPLEX DOMINATING
THE NE QUADRANT ARE REGIONS 3027 (N19E42), 3031 (N04W04) AND
3026 (N09E27) IN DECREASING ORDER OF COMPLEXITY AND SIZE.
REGION 3027 CONTINUES AS A LARGE CLASS F SPOT GROUP WITH A WEAK
DELTA CONFIGURATION. LOOP PROMINENCES HAVE PERSISTED SINCE
1420Z AT N20E90. A PLAGE WITH SMALL SURGES IS JUST NOW
APPEARING AT THIS LOCATION AND IS ASSIGNED REGION 3033. A
NEW BIPOLAR SPOT GROUP HAS EMERGED NEAR THE CENTER OF REGION
3011 (S05W35) AND WILL BE INCLUDED IN THAT REGION.

IB. SOLAR ACTIVITY FORECAST:

MODERATE FLARE ACTIVITY IS EXPECTED FROM AT LEAST ONE OF THE
FOUR LARGEST NORTHERN ACTIVE REGIONS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

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

III. EVENT PROBABILITIES: 07 - 09 APRIL

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 APR 235

PREDICTED 07-09 APR 230/225/220

90 DAY MEAN 06 APR 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 APR 05/07

ESTIMATED AFR/AP 06 APR 10/10

PREDICTED AFR/AP 07-09 APR 12/10 10/12 10/12

SOLTERWARN

BT