

HFUS 3 BOU 040530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 094A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 04 APRIL 1978

IA. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 8 HOURS
ALTHOUGH FLUCTUATIONS IN THE X-RAY BACKGROUND TRACE HAVE INCREASED.
REGION 1057 (N22E39) IS DEVELOPING MORE AND MORE OF THE CHARACTER-
ISTICS NORMALLY ASSOCIATED WITH DYNAMIC ENERGETIC REGIONS. SPOT
GROWTH, PLAGE FLUCTUATIONS, INCREASING GRADIENTS AND POINT BRIGHTEN-
INGS ARE OCCURRING. THE OTHER DISK FEATURES ARE RELATIVELY STABLE
AND THE LIMBS ARE RECENTLY QUIET.

IB. CONTINUED DEVELOPMENT IN 1057 IS EXPECTED AND THIS IN TURN
SHOULD YIELD ENERGETIC ACTIVITY WITHIN THIS FORECAST PERIOD. (SEE
PART III).

II. THE GEOMAGNETIC FIELD IS DISTURBED. GENERALLY ACTIVE CONDITIONS
WITH MINOR STORM CONDITIONS INTERSPERSED CAN BE EXPECTED IN NIGHT-
TIME SECTORS FOR THE NEXT 48-72 HOURS. (SEE PART V).

III. EVENT PROBABILITIES 04 APRIL - 06 APRIL

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 APRIL 135

PREDICTED 04-06 APRIL 140/145/150

90-DAY MEAN 03 APRIL 132

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 APRIL 11

ESTIMATED AFR/AP 03 APRIL 17/25

PREDICTED AFR/AP 04-06 APRIL 25/35 - 18/30 - 12/20

SOLTERWARN

BT

HFUS 3 BOU 041500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 094-B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 04 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1057 (N20E36) HAD A SN FLARE
(C-2 XRAY) AT 0917Z (MAX). ITS NEUTRAL LINE IS STILL ACTIVE. REGION
1061 (N12W61) HAS SHOWN SIGNS OF GROWTH. NEW REGION 1063 (N15E75)
IS AN H-TYPE SPOT. THE REST OF THE DISK/LIMB IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD BE LOW. HOWEVER, WITH CONTINUED GROWTH
FROM REGION 1057 THERE IS THE POSSIBILITY OF M-CLASS FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO UNSETTLED FOR THE PAST
8 HOURS. UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED FOR
THE REST OF TODAY.

III. EVENT PROBABILITIES 04 - 06 APR

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 APR 135

PREDICTED 04 - 06 APR 140/145/150

90-DAY MEAN 03 APR 132

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 APR 11

ESTIMATED AFR/AP 03 APR 17/25

PREDICTED AFR/AP 04 - 06 APR 18/30 - 15/25 - 12/20

SOLTERWARN

BT

HFUS 1 BOU 042200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 094

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 04 APR 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1057 (N21E30) HAD 2 SN
FLARES AT 0915Z AND 1425Z. ITS NEUTRAL LINE IS ACTIVE. REGION
1061 (N13W66) IS NOW A C-TYPE GROUP. REGION 1062 (S26E57) HAD A SN
FLARE AT 1839Z AND A SF AT 1438Z. NEW REGION 1063 (N17E69) IS AN
K-TYPE GROUP WITH 3 SPOTS. THERE IS AN EPL AT NW35. THE REST OF THE
DISK/LIMB IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD REMAIN LOW. DEVELOPMENTS WITHIN REGIONS
1057 AND 1061 COULD PRODUCE SOME M-CLASS XRAY EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TODAY. CONDITIONS SHOULD
BE UNSETTLED TO SLIGHTLY ACTIVE TOMORROW.

III. EVENT PROBABILITIES 05 - 07 APR

CLASS M 30/35/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 APR 146

PREDICTED 05 - 07 APR 150/153/155

90-DAY MEAN 04 APR 132

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 APR 24

ESTIMATED AFR/AP 04 APR 20/55

PREDICTED AFR/AP 05 - 07 APR 15/25 - 12/20 - 10/12

SOLTERWARN

BT