(a)

$n(P)\ /\ (mm\ h^{-1})^{-1}$

10^{-3}

10^{-6}

10^{-9}

2mom
1mom
2mom-rain
2mom-ice
2mom-snow
1mom-rain
1mom-ice
1mom-snow

(b)

n(P) P

0.015

0.010

0.005

0.000

10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}

P / (mm h^{-1})

(c)

ε_P / (h^{-1})

0.70

0.65

0.60

0.55

0.50

2mom
1mom
2mom-rain
2mom-ice
2mom-snow
1mom-rain
1mom-ice
1mom-snow

0.14 0.15 0.16 0.17 0.18

TWP / (kg m^{-2})

(d)

ε_P / (h^{-1})

1.2

1.0

0.8

0.6

0.4

0.2

0 25 50 75 100

Percentile of WVP

(e)

$\varepsilon_P/\varepsilon_P^{ctrl}$

1.3

1.2

1.1

1.0

0.9

0.6 1.0 2.0

$v_{t,x}/v_{t,x}^{ctrl}$