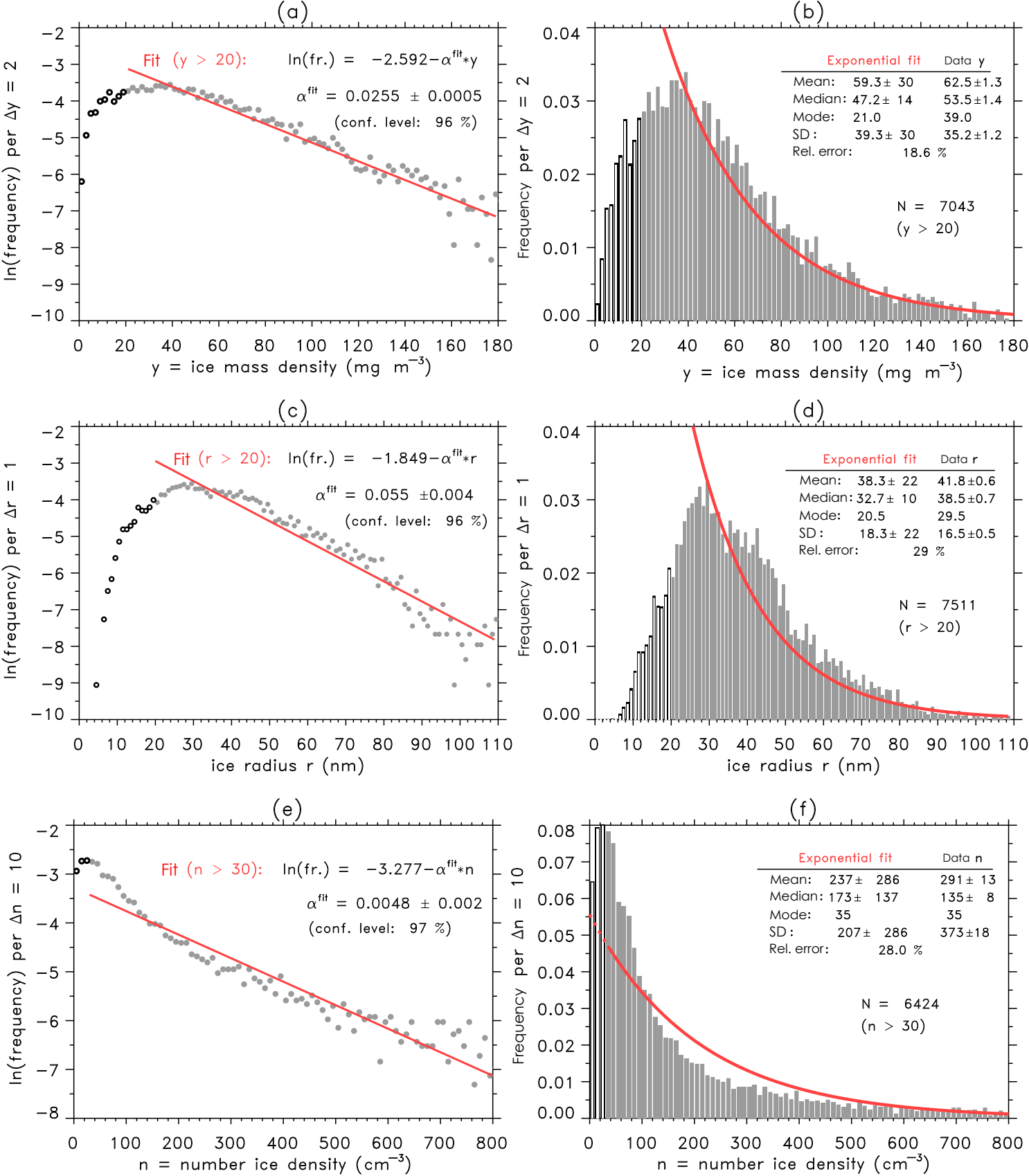
(a)
Fit (y > 20): ln(fr.) = −2.592−α^fit*y
α^fit = 0.0255 ± 0.0005
(conf. level: 96 %)
ln(frequency) per Δy = 2
y = ice mass density (mg m^−3)
(b)
Exponential fit Data y
Mean: 59.3± 30 62.5±1.3
Median: 47.2± 14 53.5±1.4
Mode: 21.0 39.0
SD: 39.3± 30 35.2±1.2
Rel. error: 18.6 %
N = 7043
(y > 20)
Frequency per Δy = 2
y = ice mass density (mg m^−3)
(c)
Fit (r > 20): ln(fr.) = −1.849−α^fit*r
α^fit = 0.055 ±0.004
(conf. level: 96 %)
ln(frequency) per Δr = 1
ice radius r (nm)
(d)
Exponential fit Data r
Mean: 38.3± 22 41.8±0.6
Median: 32.7± 10 38.5±0.7
Mode: 20.5 29.5
SD: 18.3± 22 16.5±0.5
Rel. error: 29 %
N = 7511
(r > 20)
Frequency per Δr = 1
ice radius r (nm)
(e)
Fit (n > 30): ln(fr.) = −3.277−α^fit*n
α^fit = 0.0048 ± 0.002
(conf. level: 97 %)
ln(frequency) per Δn = 10
n = number ice density (cm^−3)
(f)
Exponential fit Data n
Mean: 237± 286 291± 13
Median: 173± 137 135± 8
Mode: 35 35
SD: 207± 286 373±18
Rel. error: 28.0 %
N = 6424
(n > 30)
Frequency per Δn = 10
n = number ice density (cm^−3)