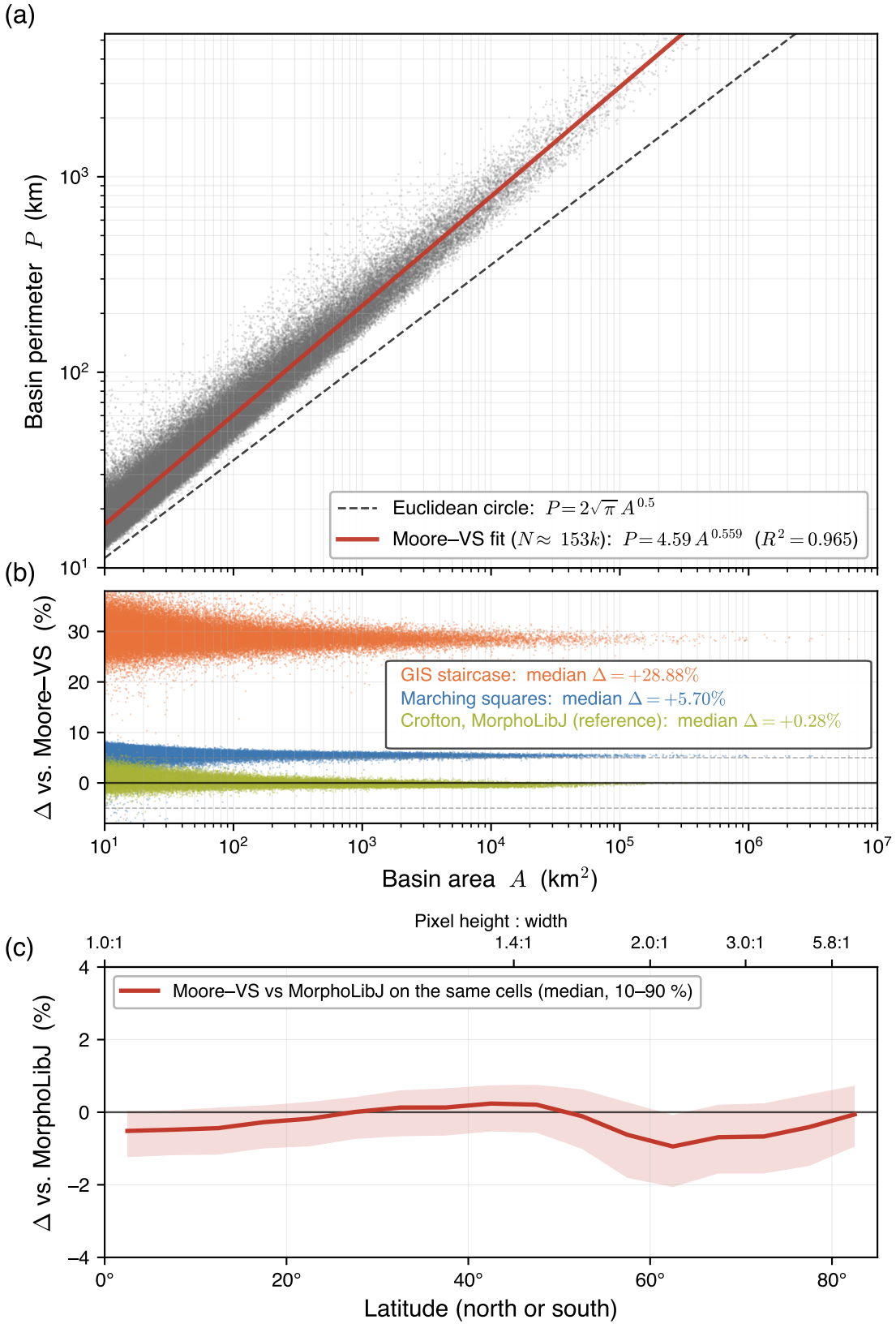

(a)
Basin perimeter P (km)
10^3
10^2
10^1
Euclidean circle: $P = 2\sqrt{\pi}\,A^{0.5}$
Moore–VS fit ($N \approx 153k$): $P = 4.59\,A^{0.559}$ ($R^2 = 0.965$)
(b)
Δ vs. Moore–VS (%)
30
20
10
0
GIS staircase: median Δ = +28.88%
Marching squares: median Δ = +5.70%
Crofton, MorphoLibJ (reference): median Δ = +0.28%
10^1
10^2
10^3
10^4
10^5
10^6
10^7
Basin area A (km^2)
Pixel height : width
1.0:1
1.4:1
2.0:1
3.0:1
5.8:1
(c)
Δ vs. MorphoLibJ (%)
4
2
0
−2
−4
Moore–VS vs MorphoLibJ on the same cells (median, 10–90 %)
0°
20°
40°
60°
80°
Latitude (north or south)