

Diagnostics in Sparse Region (1.8, 1.8)

kNN Diagnostics (Expect large dist_k & warning):

lower	upper	dist_k	warning
0.714	4.978	0.58	Fallback: LM (dist > thresh)

KDE Diagnostics (Expect small eff_n & warning):

lower	upper	eff_n	warning
3.107	4.83	14.414	NA

Overall 2D Coverage Metrics

Coverage	Avg_Width	Winkler_Score	Target_Alpha
0.918	4.257	4.919	0.1