0. Sample Data 1. Pairwise Distances 4. Multiscale P-Value 2. Multiscale Correlation 3. Null Distributions Map & Test Statistic & P-Values Map & Optimal Scales 50 50 0.1 Scales 52 0.07 0.01  $\mathcal{J}$ 0.00 25 25 50 50  ${\mathcal X}$ X Scales Test Statistic X Scales