The discrete-earth mover's distance is performed with the R package emdist. The mixture modeling itself is performed using the popular mclust R package. This choice is computationally convenient and often yields good clustering partitions. For a quick introduction to mclust see the vignette A quick tour of mclust. Reference: Scrucca L., Fop M., Murphy T. B., and Raftery A. E. (2016) mclust R package: clustering, classification, and density estimation using Gaussian finite mixture models, The R Journal, 8(1), pp. 289-317.

mclust-package | R Documentation
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mclust.options: Default values for use with MCLUST package

mclust-package: Gaussian Mixture Modeling for Model-Based Clustering, Classification, and Density Estimation
mclust is a contributed R package for model-based clustering, classification, and density estimation based on finite Gaussian mixture models. It provides functions for parameter estimation via the EM algorithm for normal mixture models with a variety of covariance structures, and functions for simulation from these models.

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