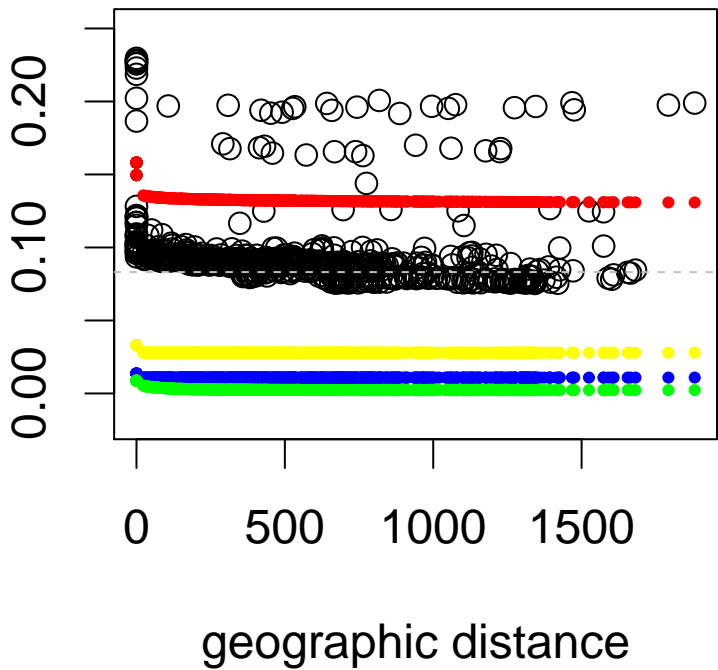


sample covariance



geographic distance