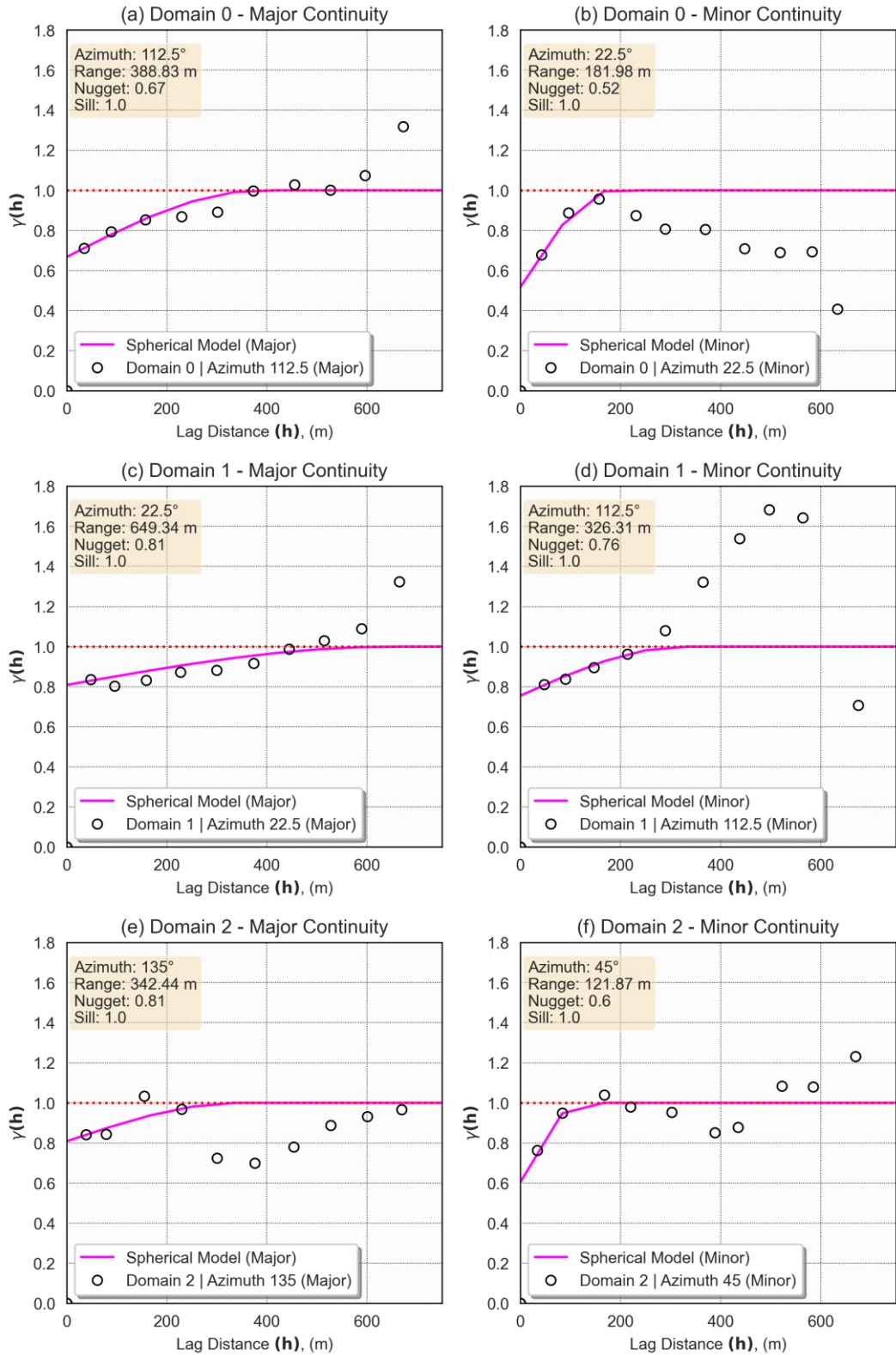


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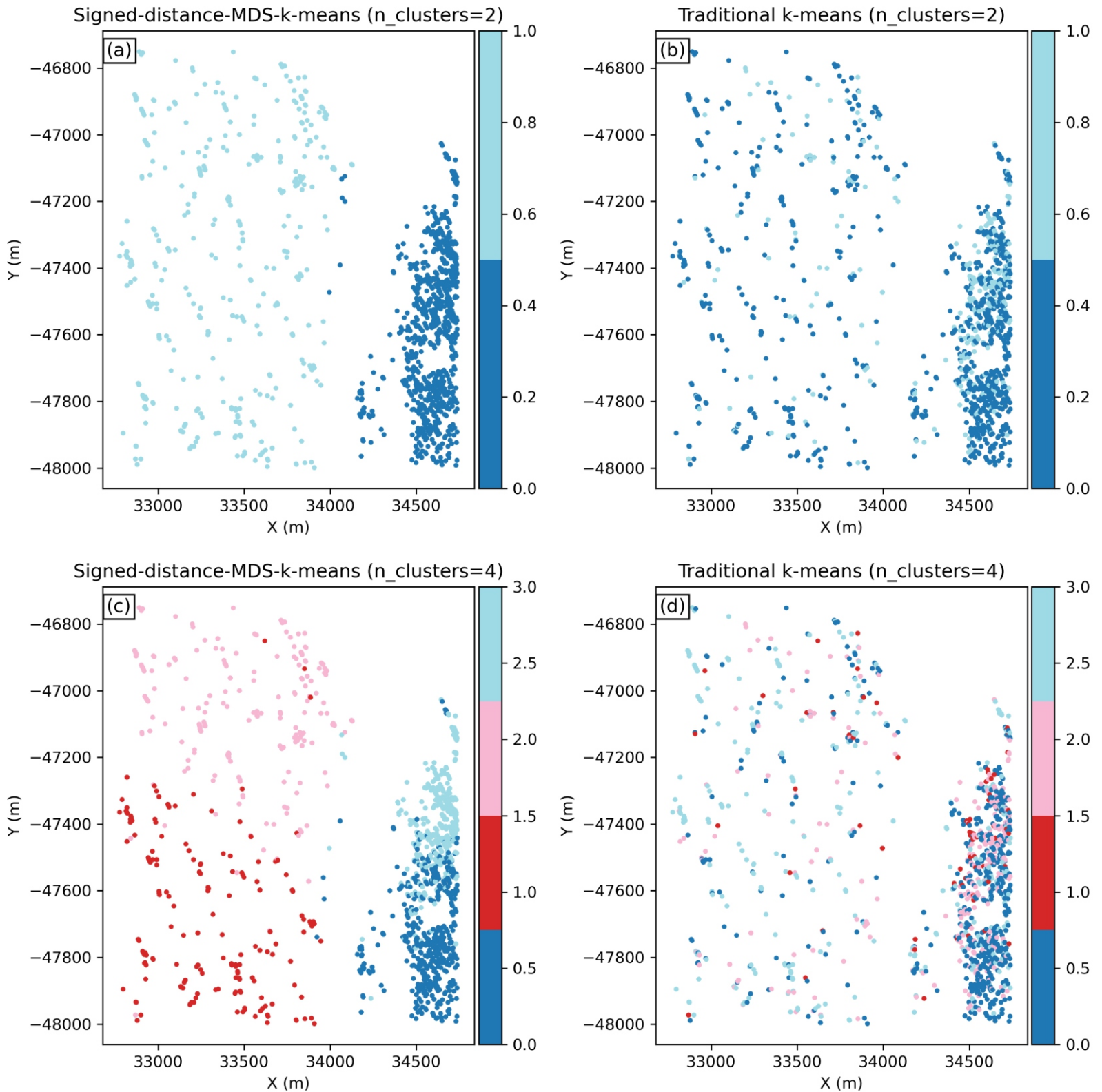
African Research Centre for Ore Systems Science (CORES), School of Geosciences, University of the Witwatersrand, 1 Jan Smuts Ave., Johannesburg, 2000, South Africa.



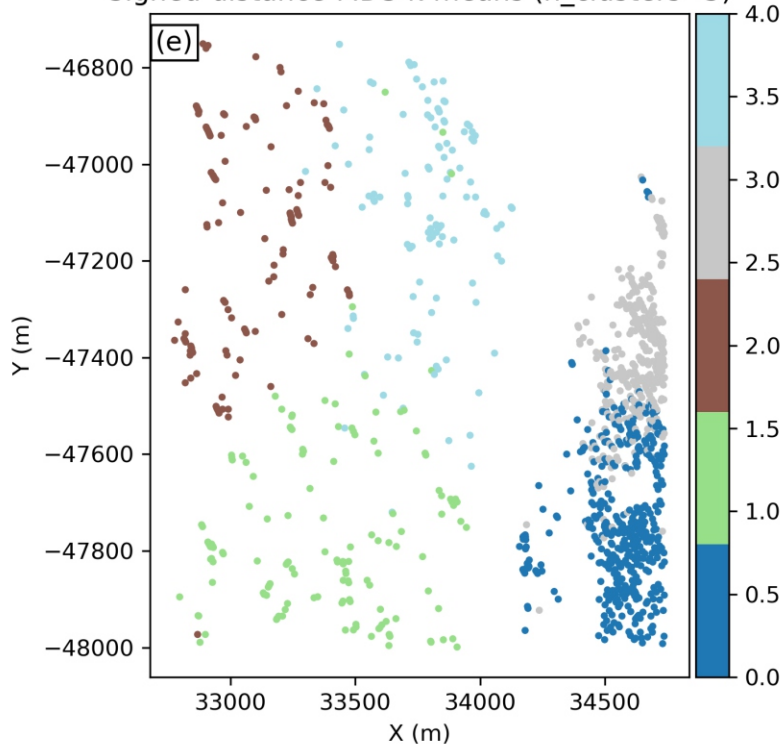
Supplementary Figure S1. Variogram analysis by domain and continuity direction.

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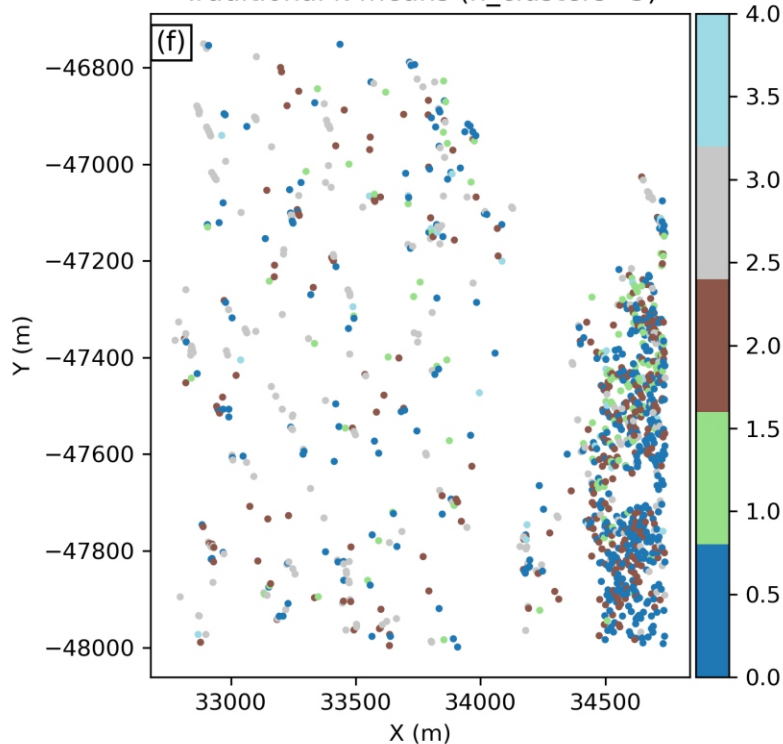
African Research Centre for Ore Systems Science (CORES), School of Geosciences, University of the Witwatersrand, 1 Jan Smuts Ave., Johannesburg, 2000, South Africa.



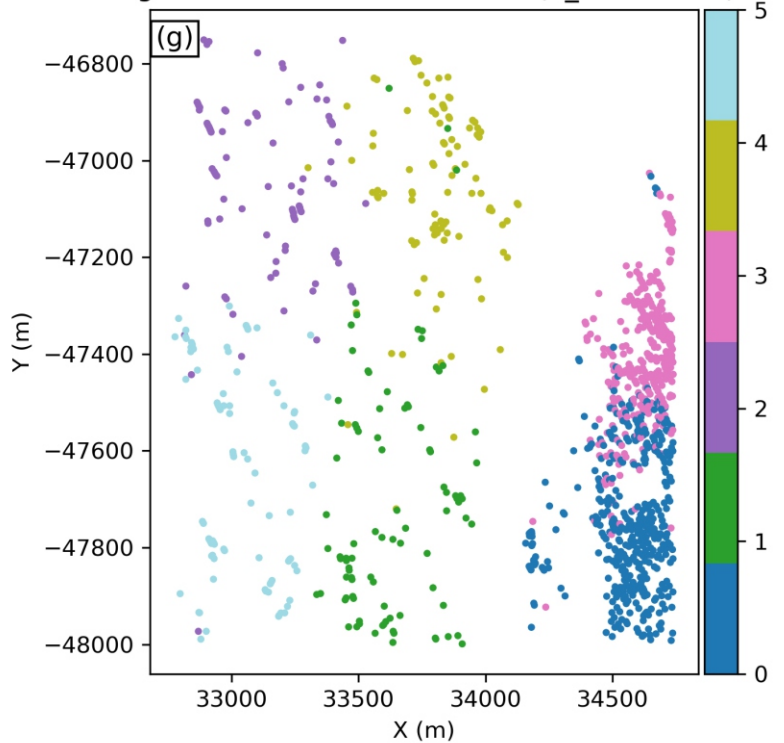
Signed-distance-MDS-k-means (n_clusters=5)



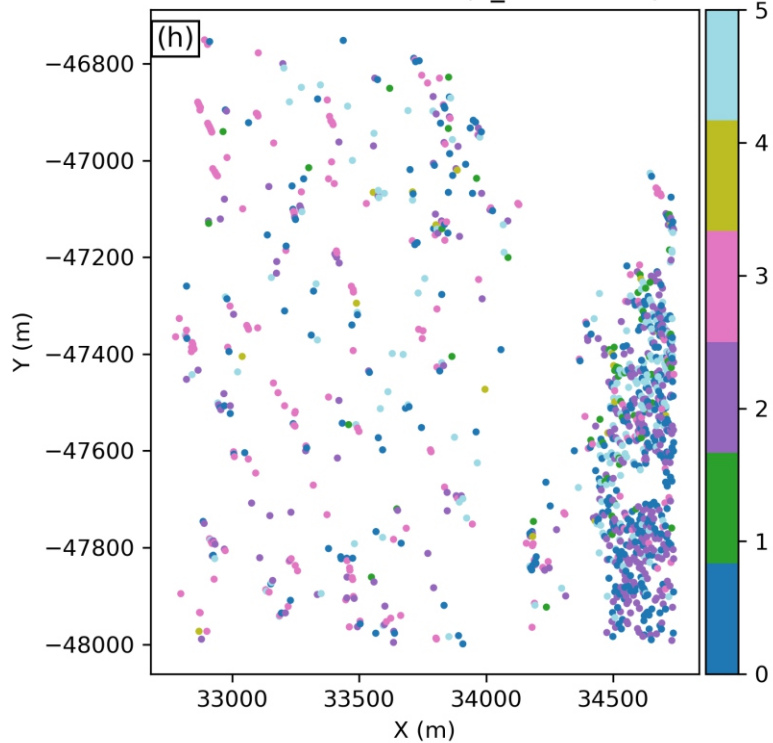
Traditional k-means (n_clusters=5)



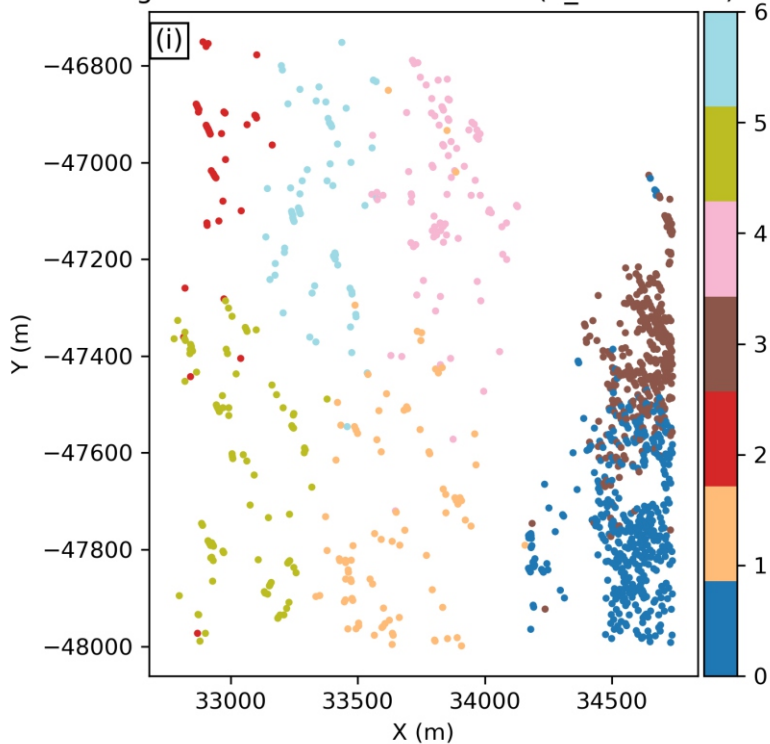
Signed-distance-MDS-k-means (n_clusters=6)



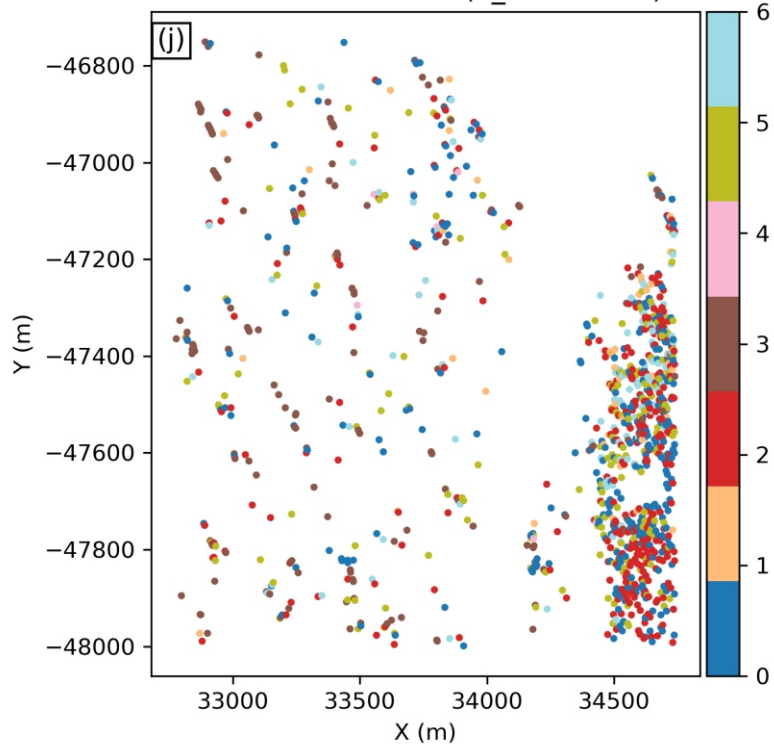
Traditional k-means (n_clusters=6)



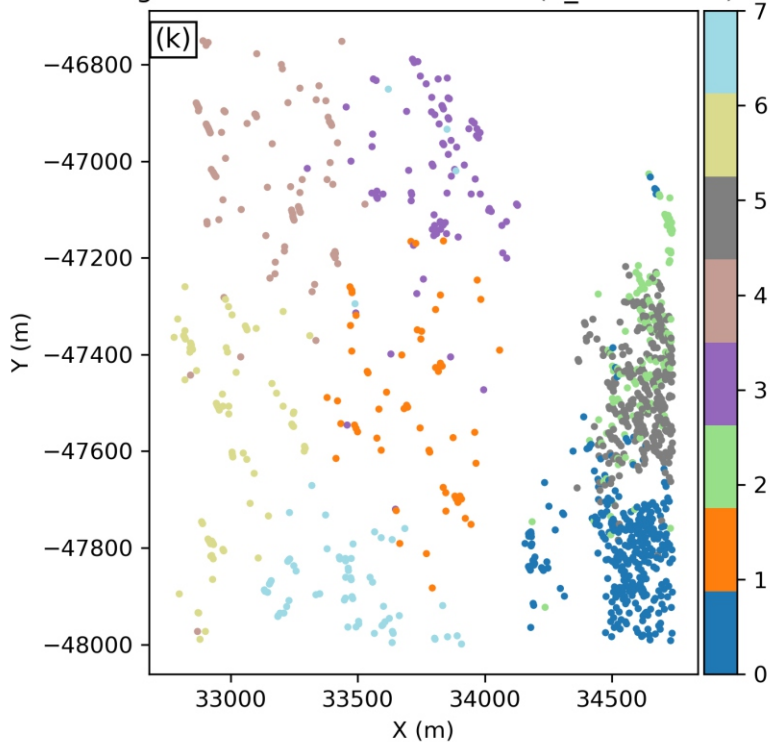
Signed-distance-MDS-k-means (n_clusters=7)



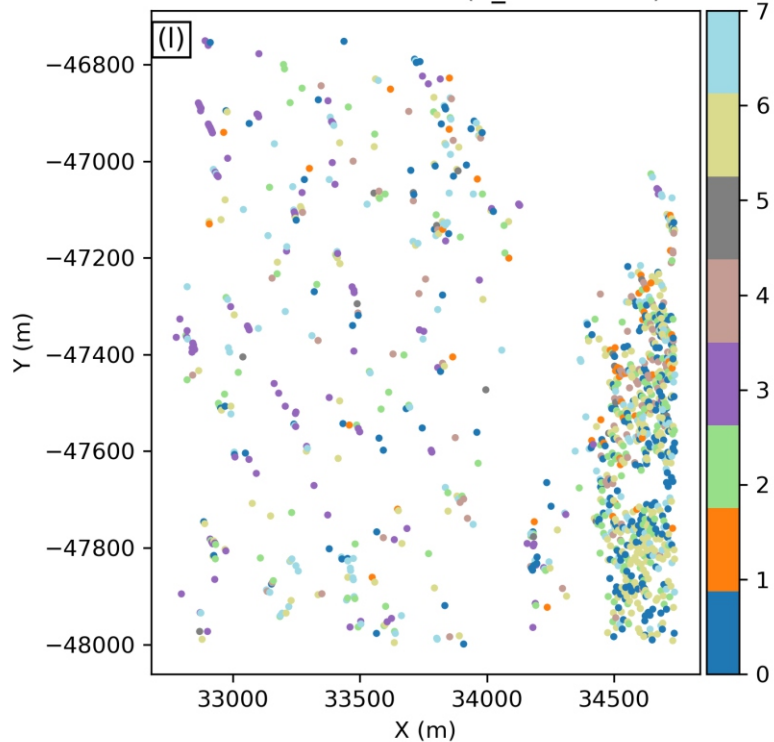
Traditional k-means (n_clusters=7)

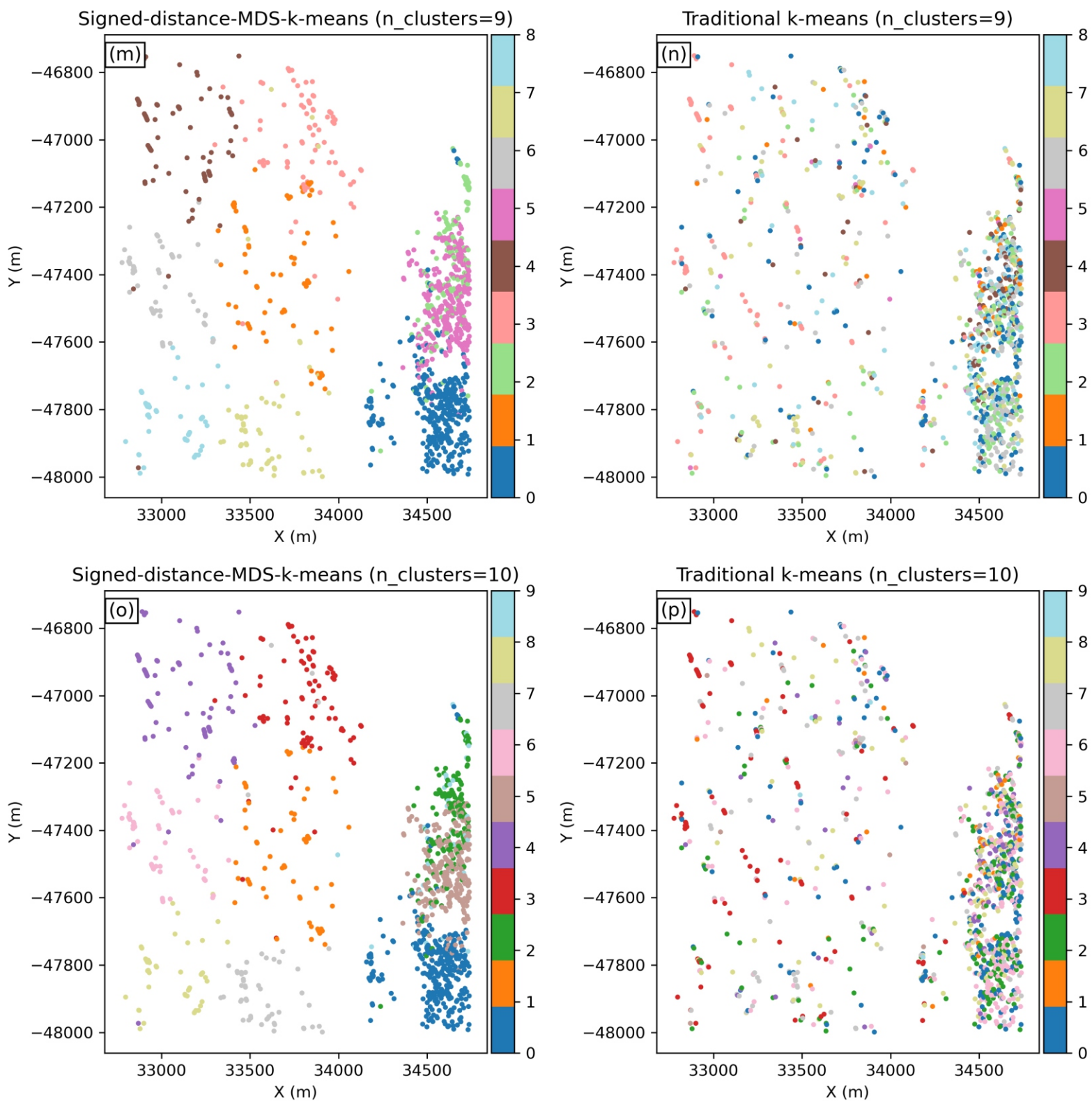


Signed-distance-MDS-k-means (n_clusters=8)



Traditional k-means (n_clusters=8)





Supplementary Figure S2. Visualisation of signed-distance MDS and Traditional K-means Iteration range 2 to 10.