Sampling schemes for digital soil survey

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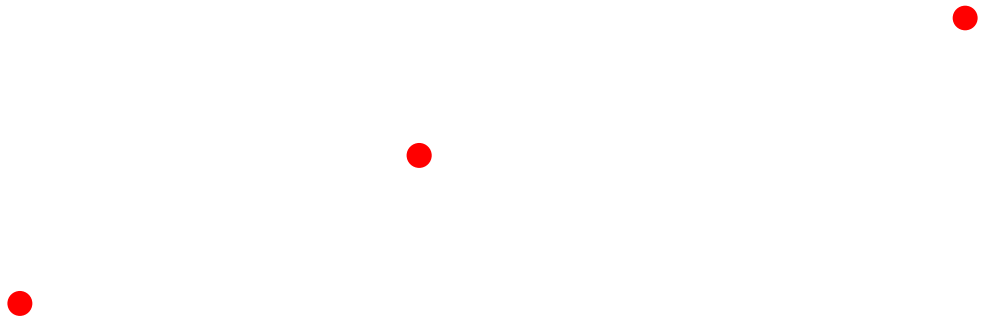
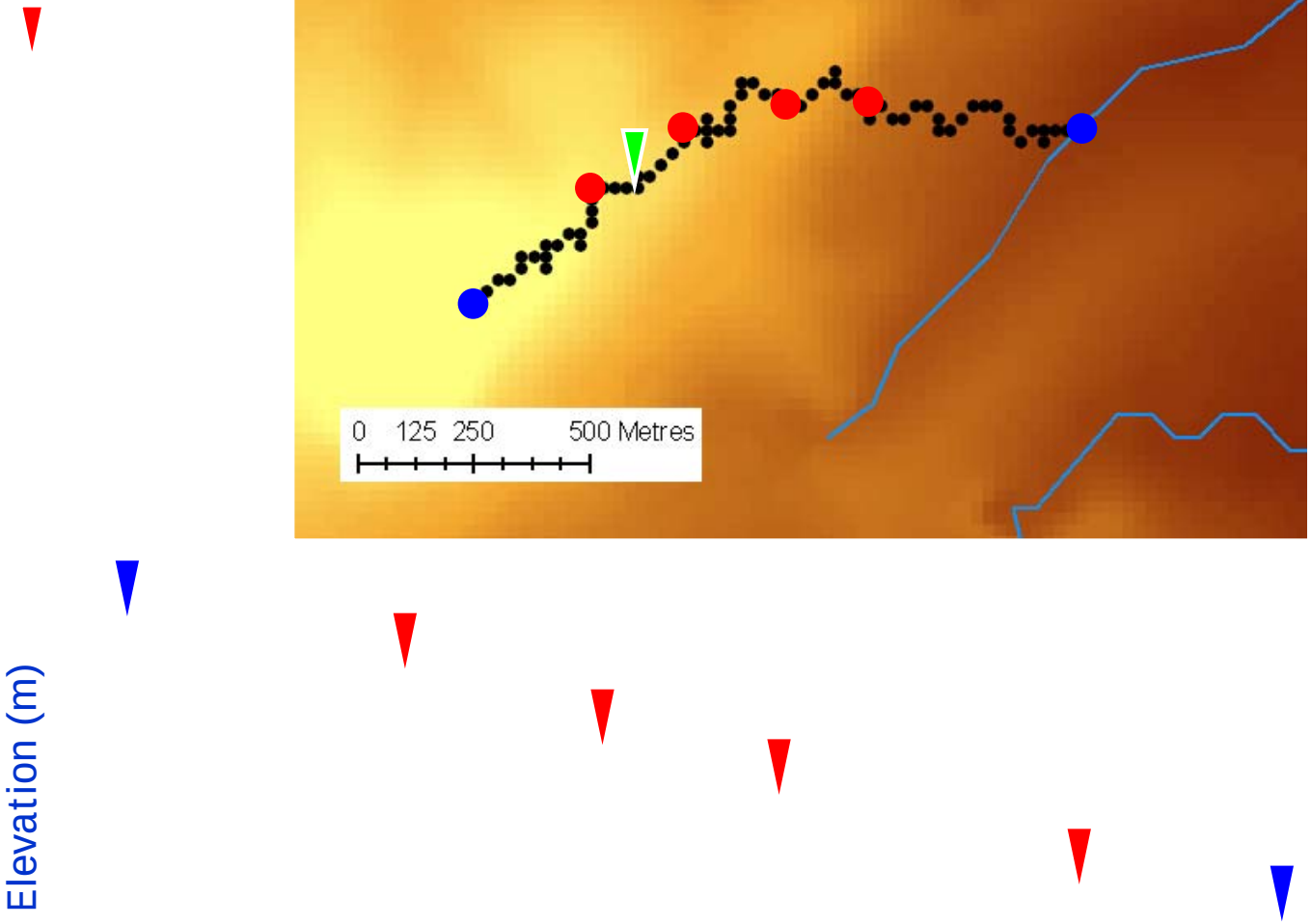
- Random catena sampling
- Latin hypercube sampling
- Fuzzy k-means

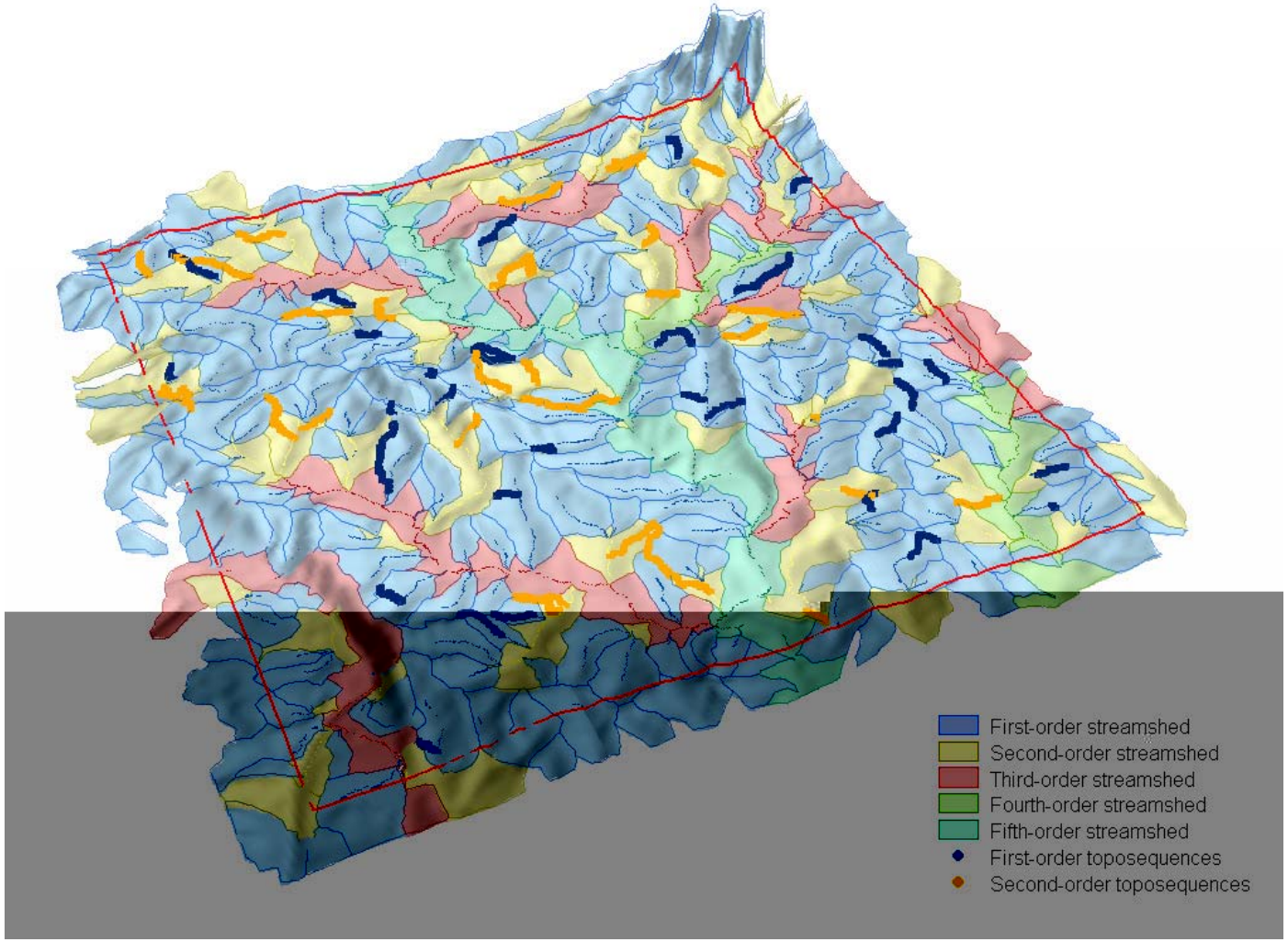
kth-order random toposequences



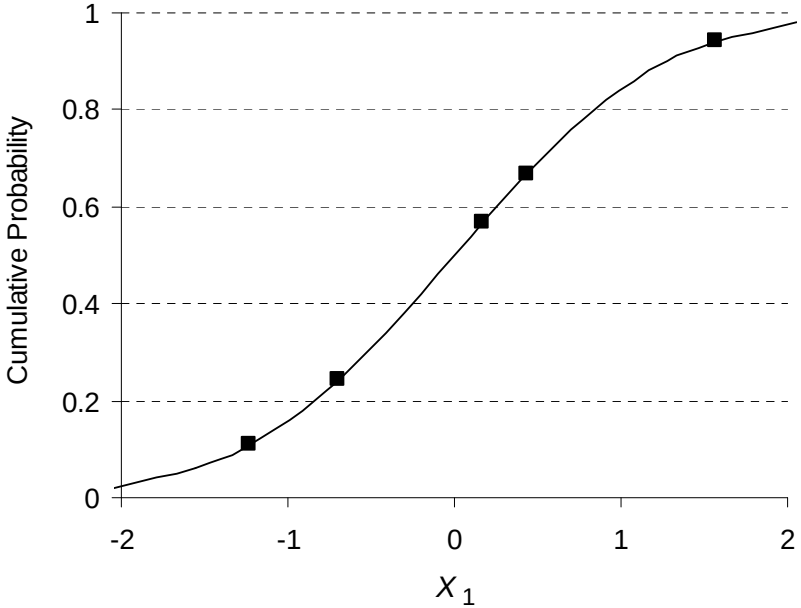
*k*th-order random toposequences

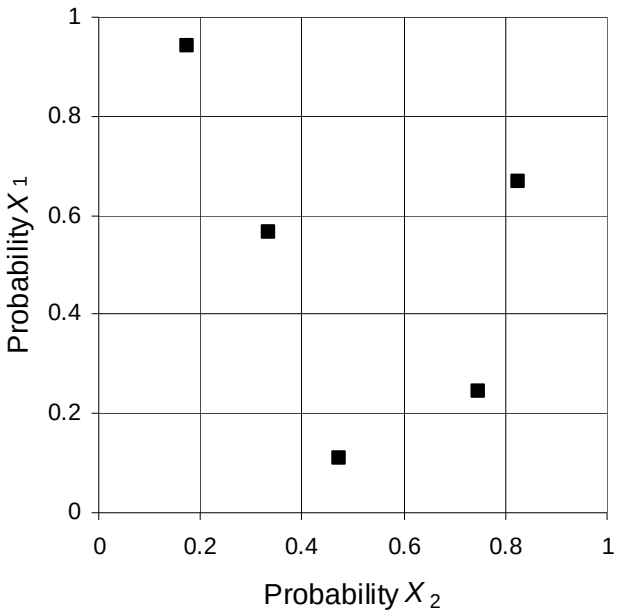


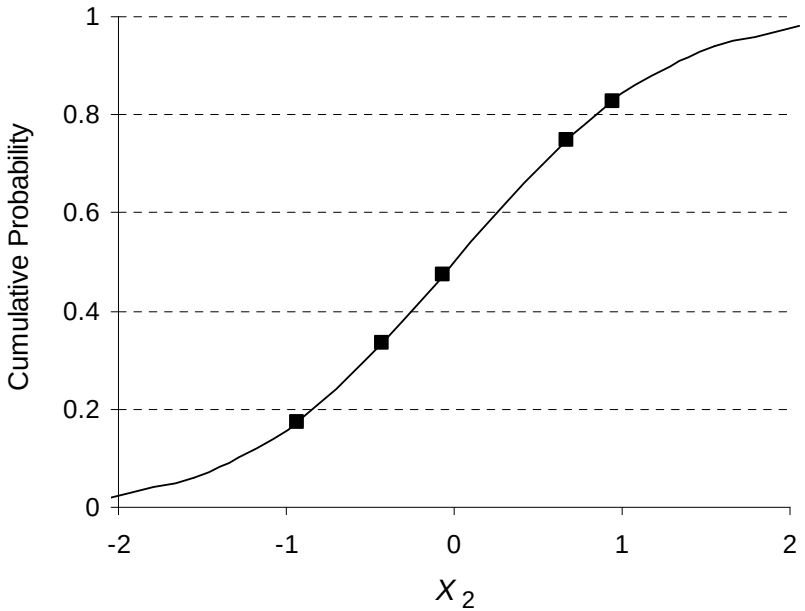
*k*th-order random toposequences



Latin Hypercube Sampling

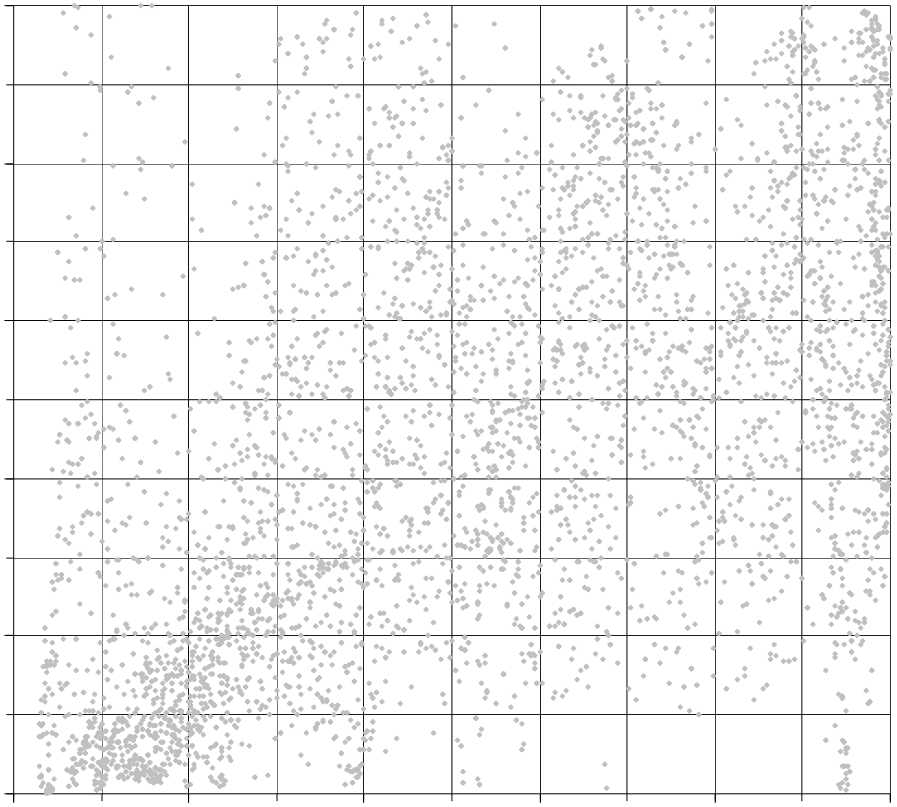






Latin Hypercube Sampling

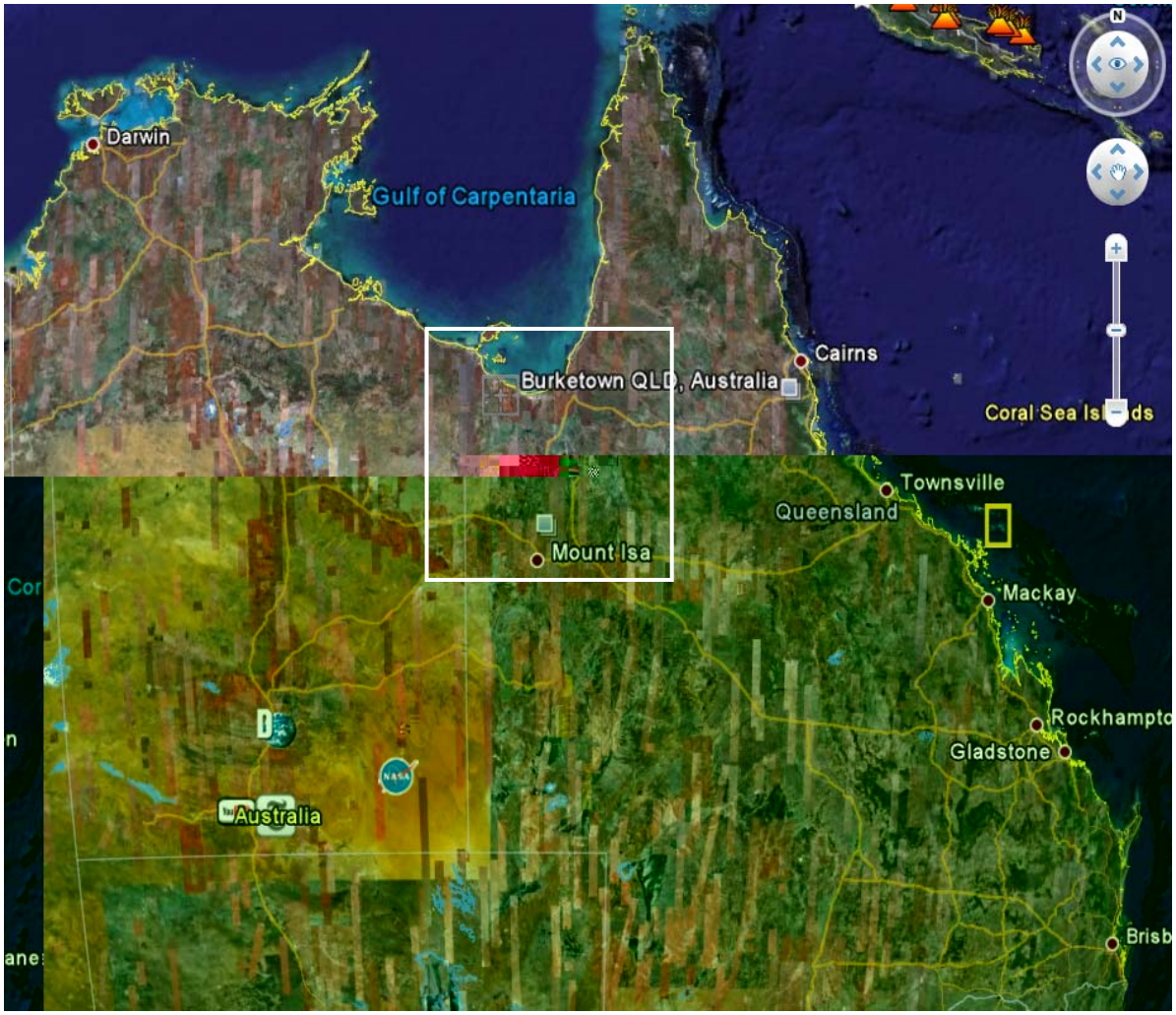
A random sampling procedure that ensures a full coverage of the range of each variable by maximally stratifying the marginal distribution



Soil survey

- Ancillary information
- Latin hypercube sampling
- 300 soil profiles

- Fuzzy k means stratification



Monitoring in the Gulf Countr

Queensland

QLD DNR&W

Fuzzy k-means of

The environmental layers

k = 50

Siteses were constrained to be located within 1.5 km from roads

- HELS useful for legacy data checking and new sampling
- Work needed on validation sampling