Resolution and accuracy in Congreve & Lamsdell matrices

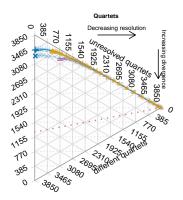
 $Martin\ R.\ Smith\ martin.smith@durham.ac.uk\\ 2019-09-20$

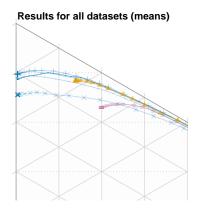
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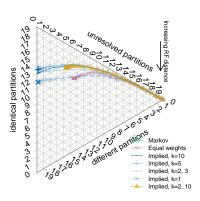
| | Summary | | | | | | | | | | | | | | | | | | | | | |
|------|-----------------|--|--|--|------|--|--|------|--|--|--|--|--|------|--|--|--|--|--|--|--|----|
| 0.2 | Trees $1-10$ | | | | | | | | | | | | | | | | | | | | | 2 |
| 0.3 | Trees $11-20$. | | | | | | | | | | | | | | | | | | | | | 5 |
| 0.4 | Trees $21–30$. | | | | | | | | | | | | | | | | | | | | | 8 |
| 0.5 | Trees $31–40$. | | | | | | | | | | | | | | | | | | | | | 11 |
| 0.6 | Trees $41–50$. | | | | | | | | | | | | | | | | | | | | | 14 |
| 0.7 | Trees $51–60$. | | | | | | | | | | | | | | | | | | | | | 17 |
| 0.8 | Trees $61-70$. | | | | | | | | | | | | | | | | | | | | | 20 |
| 0.9 | Trees $71–80$. | | | | | | | | | | | | | | | | | | | | | 23 |
| 0.10 | Trees $81–90$. | | | | | | | | | | | | | | | | | | | | | 26 |
| | Trees $91-100$ | | | | | | | | | | | | | | | | | | | | | |
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This page depicts the analytical results of all 100 matrices generated by Congreve & Lamsdell [1] using a ternary plotting approach [2], with quartets and partitions used as distance metrics.

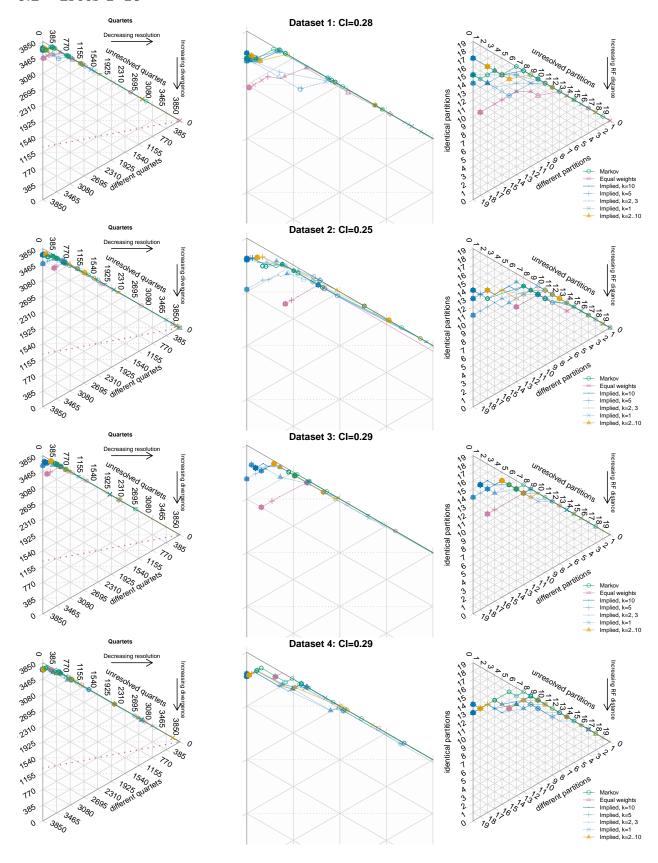
0.1 Summary

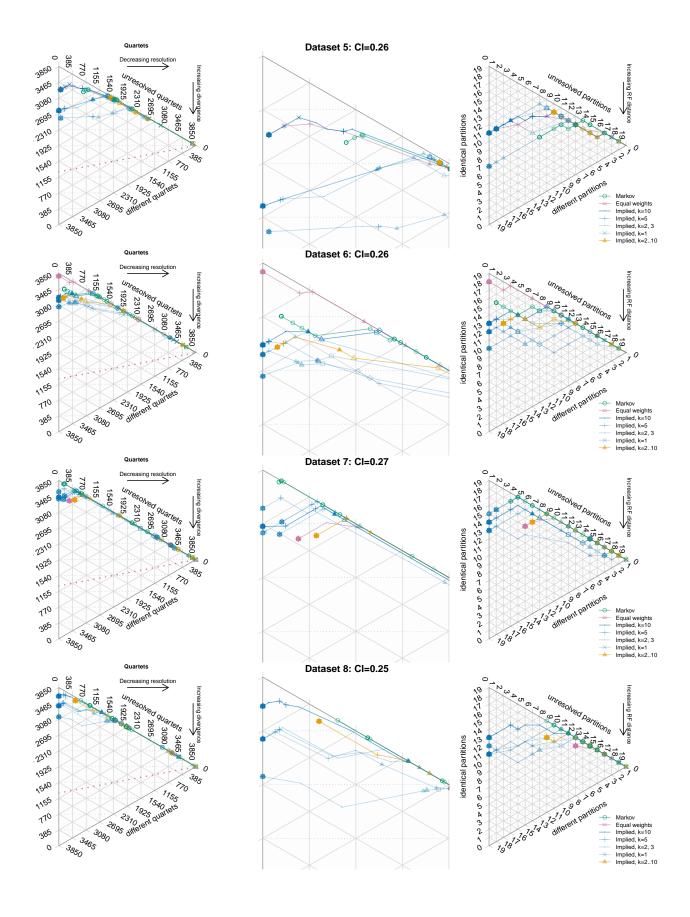


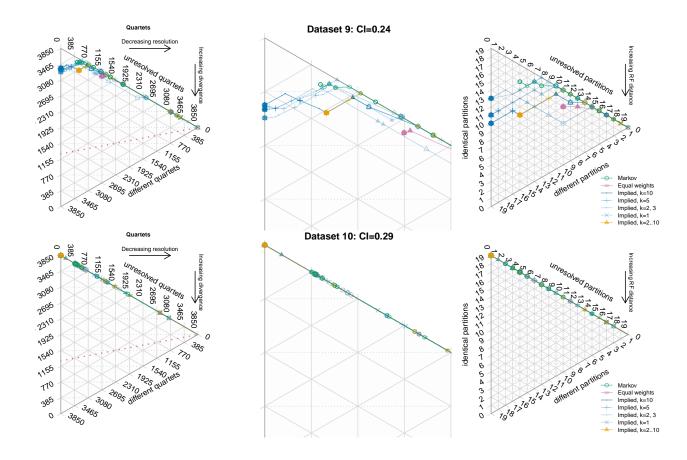




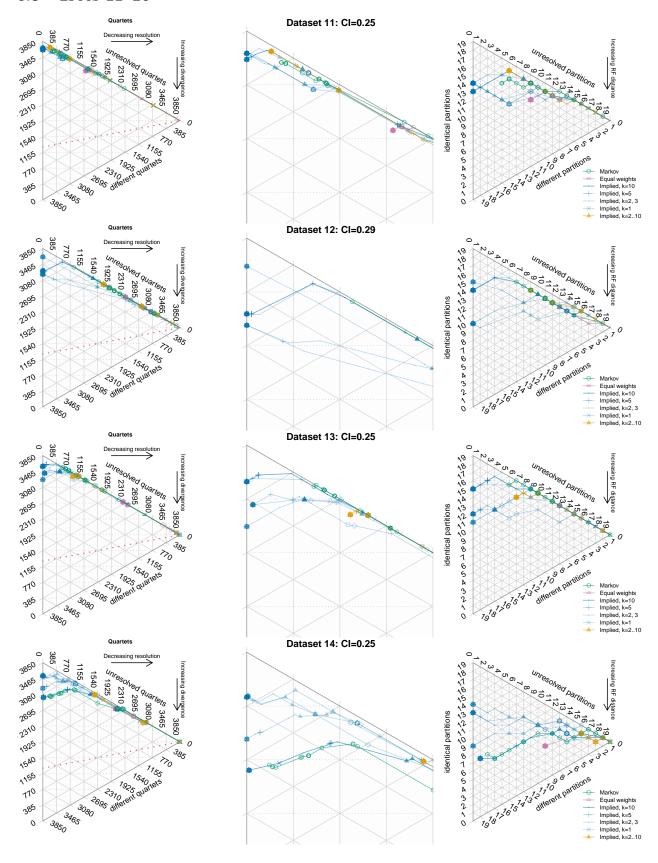
0.2 Trees 1-10

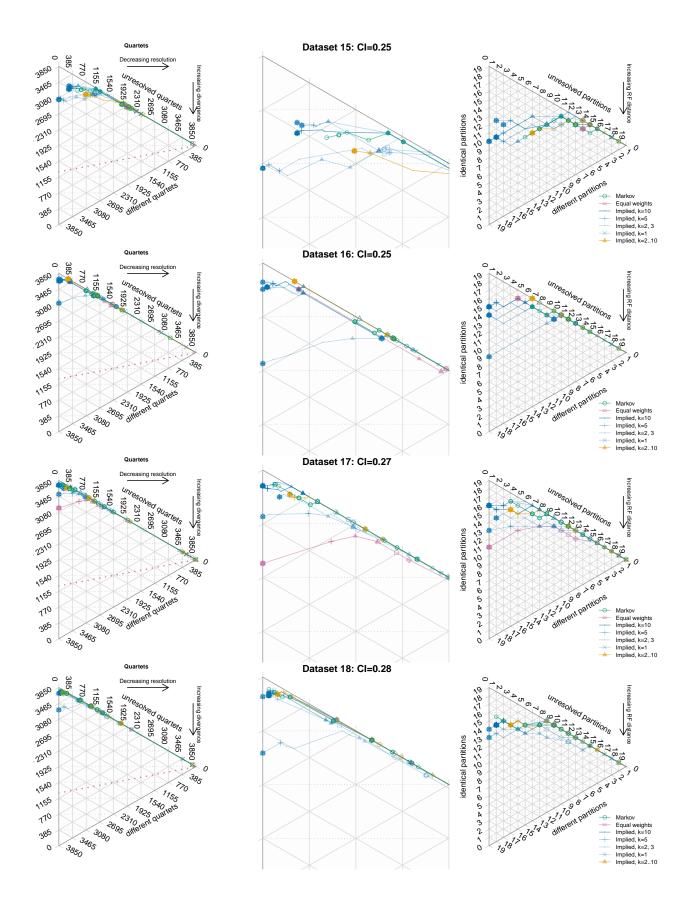


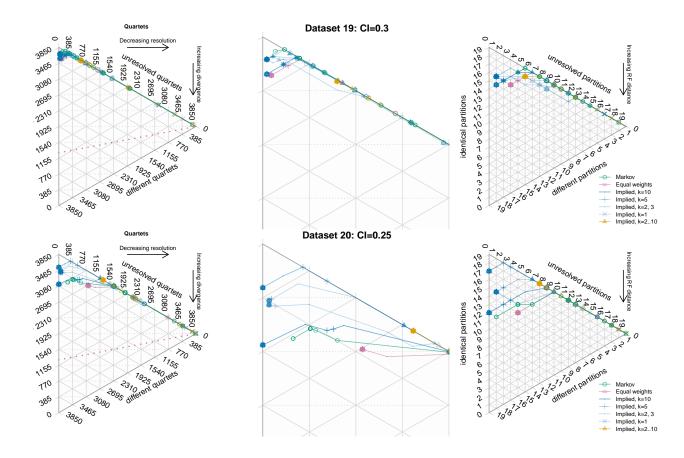




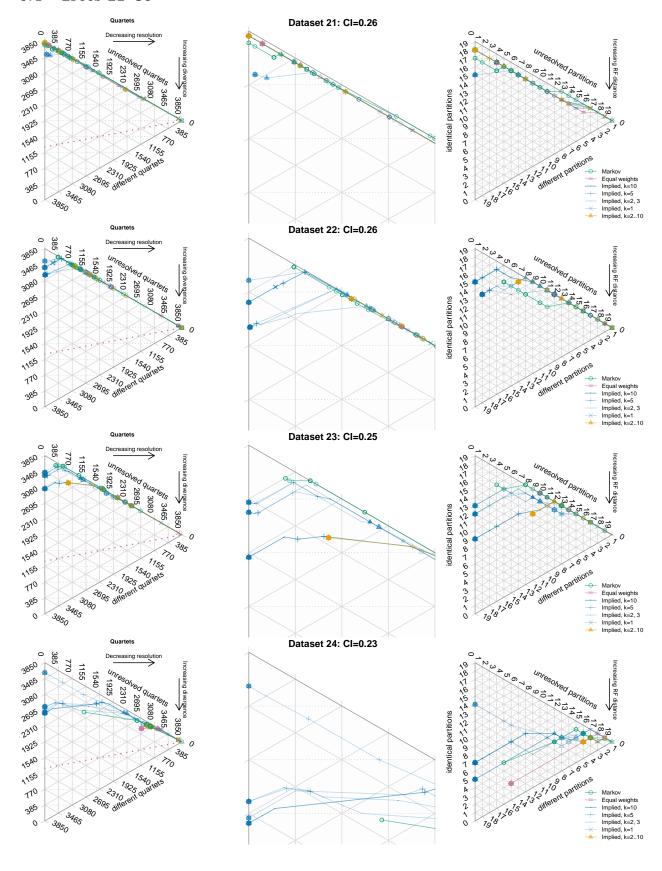
0.3 Trees 11-20

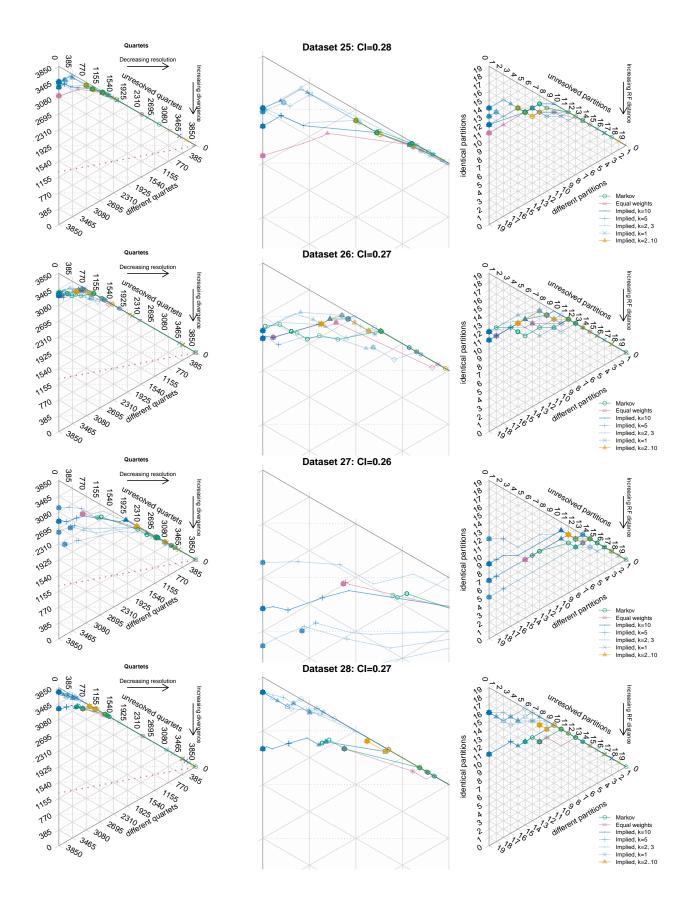


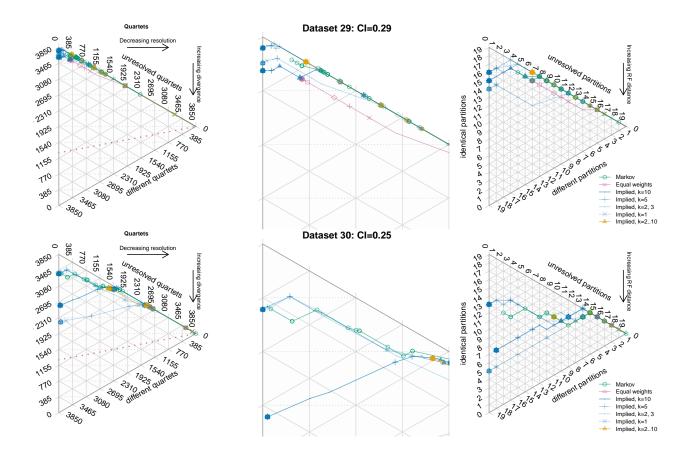




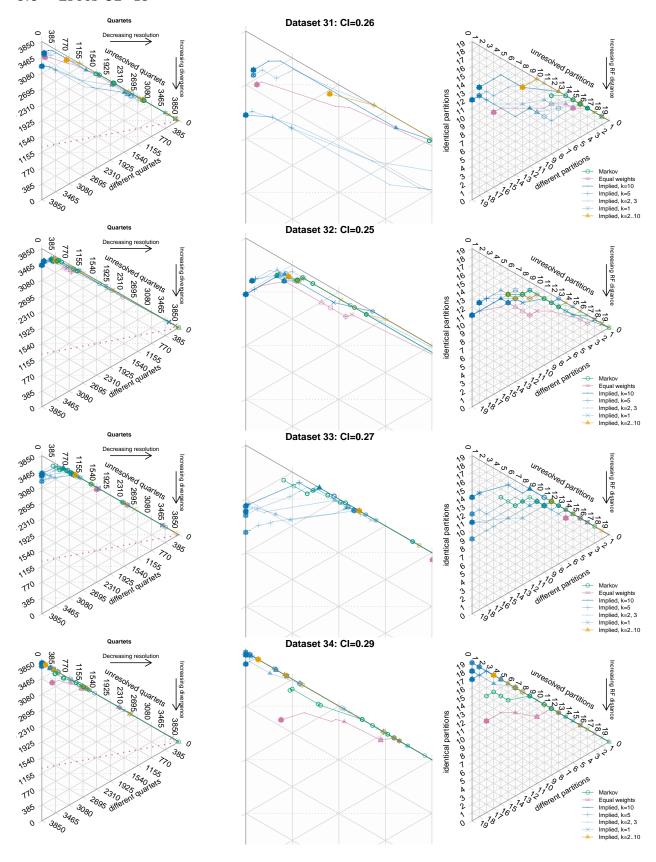
0.4 Trees 21-30

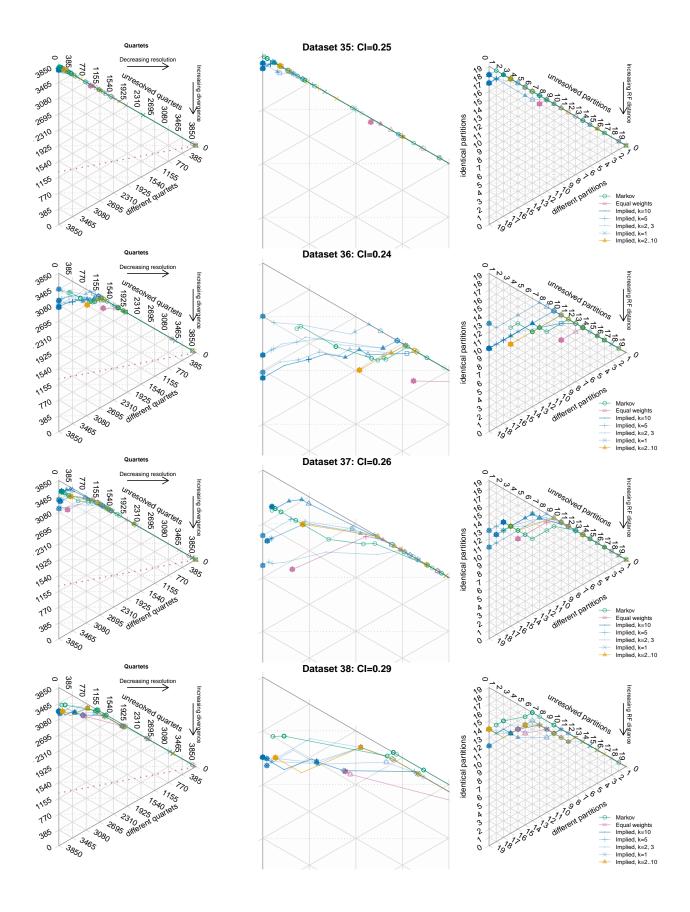


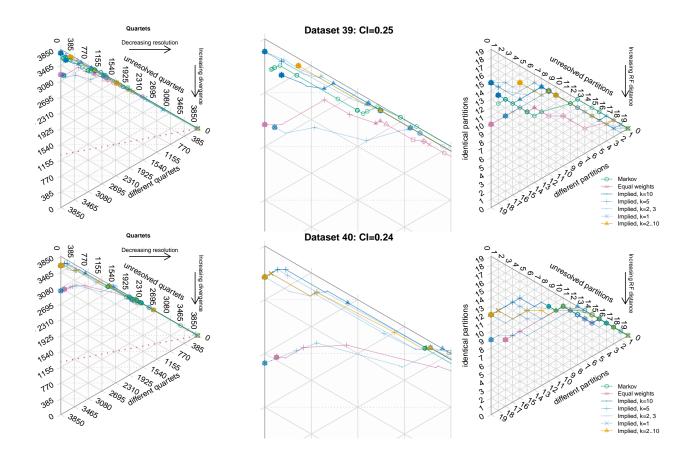




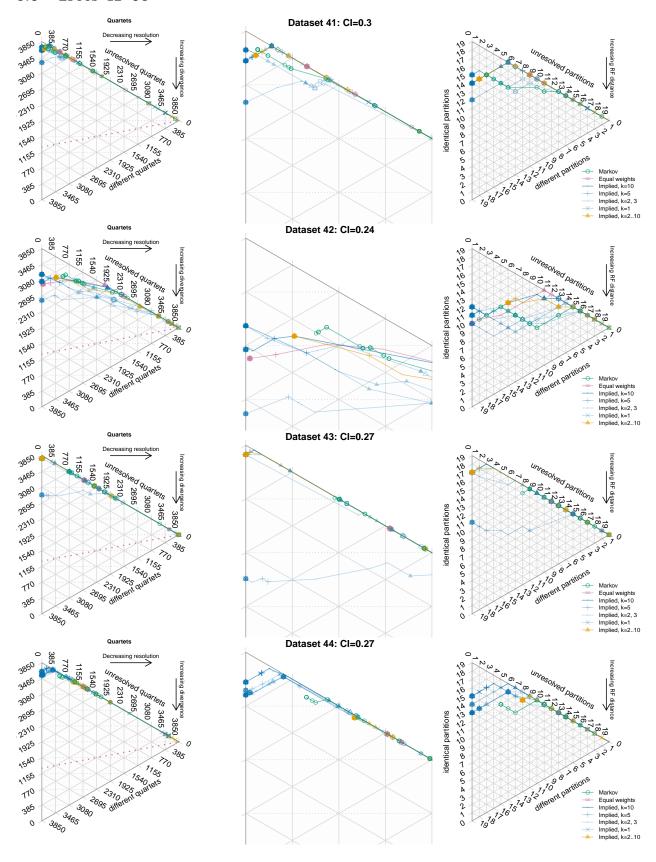
0.5 Trees 31-40

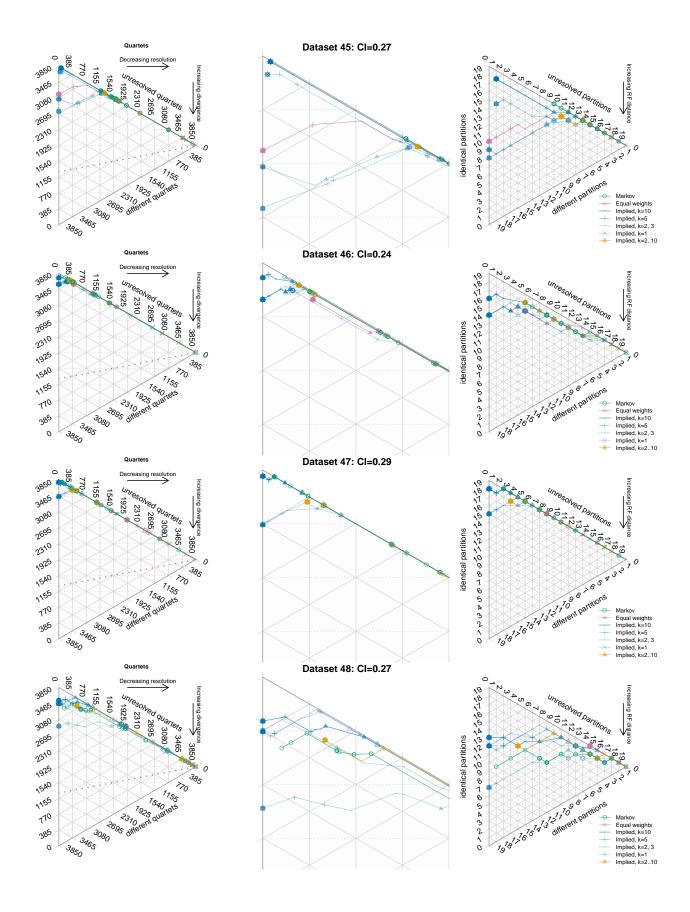


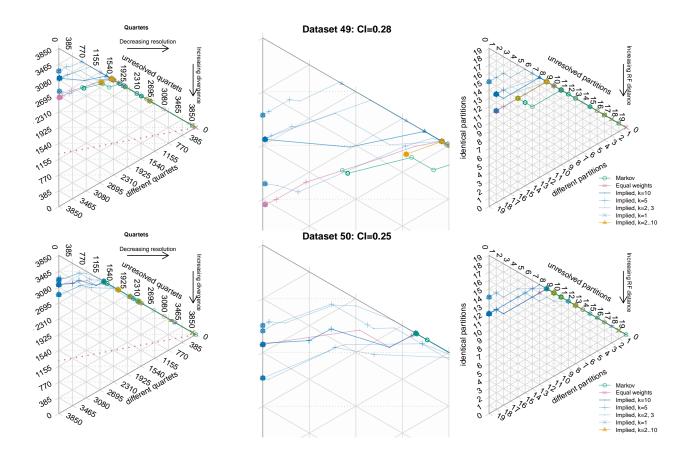




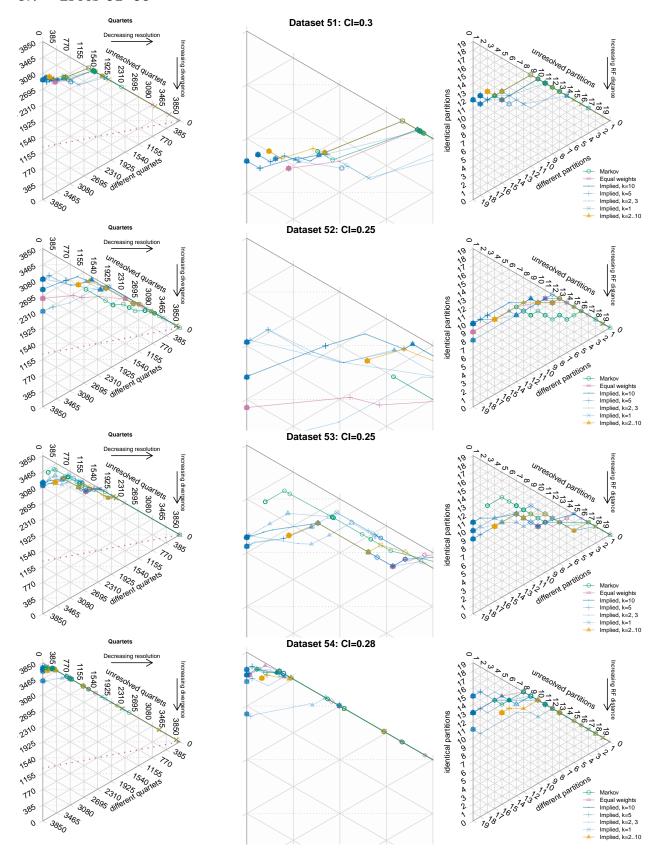
0.6 Trees 41-50

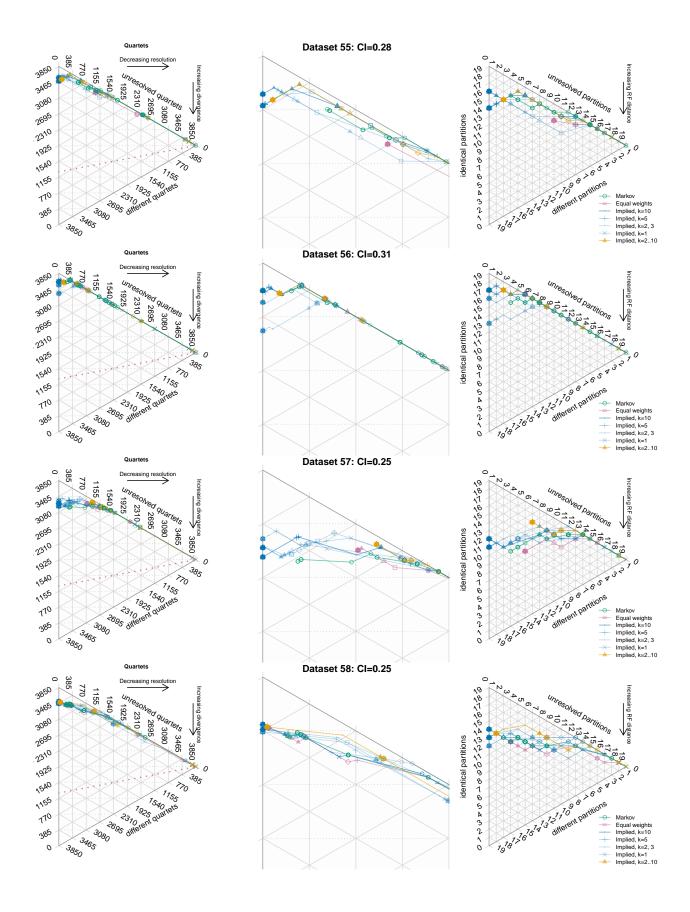


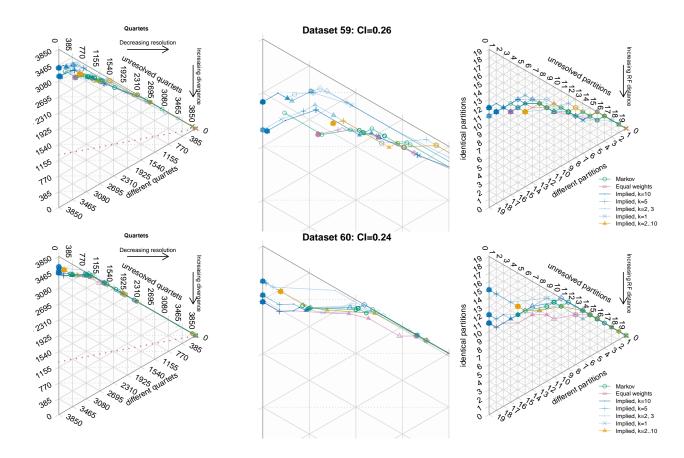




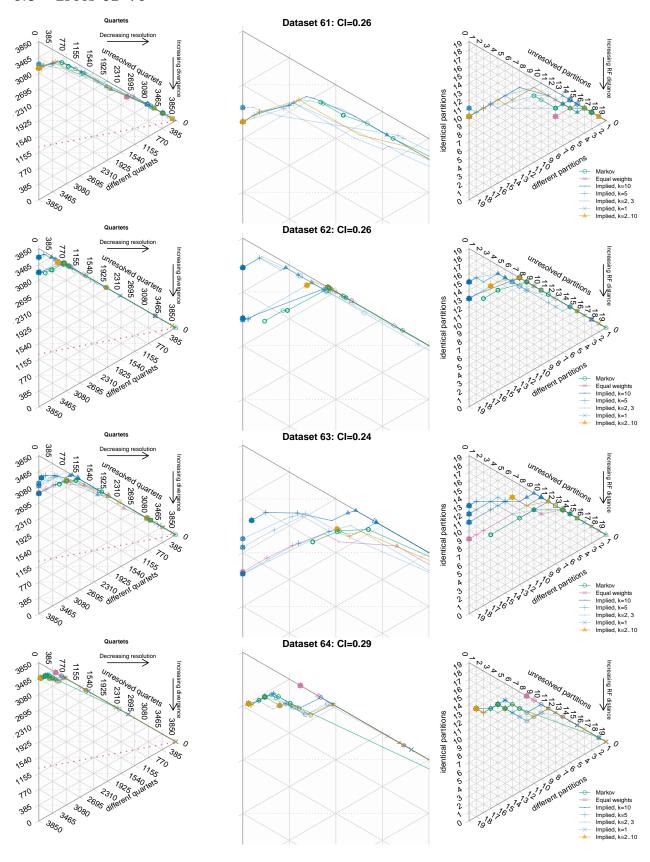
0.7 Trees 51-60

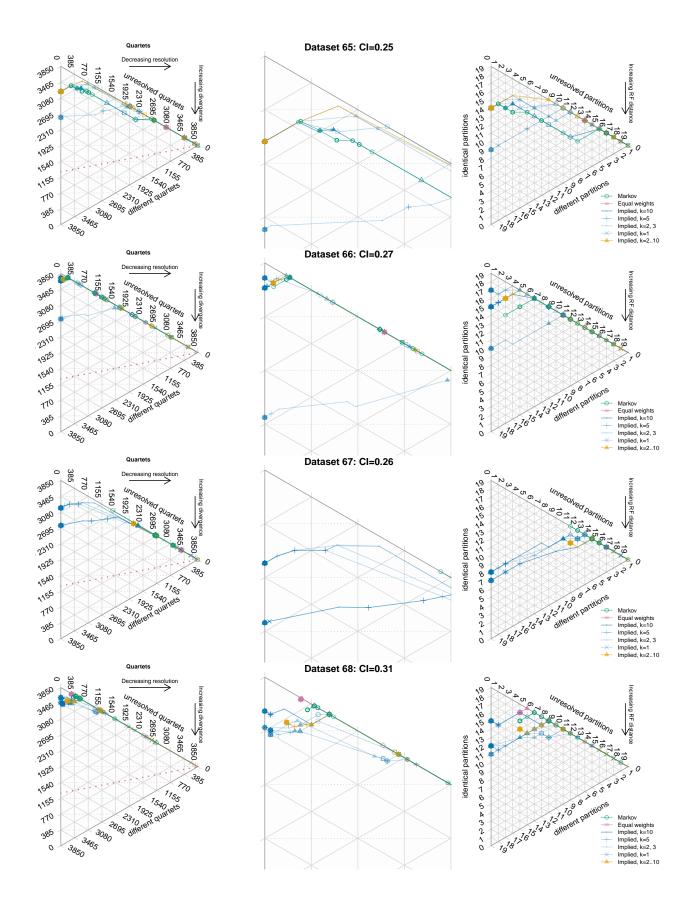


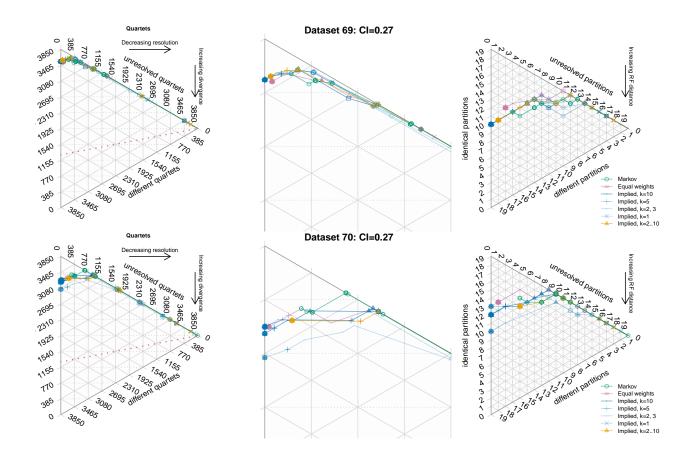




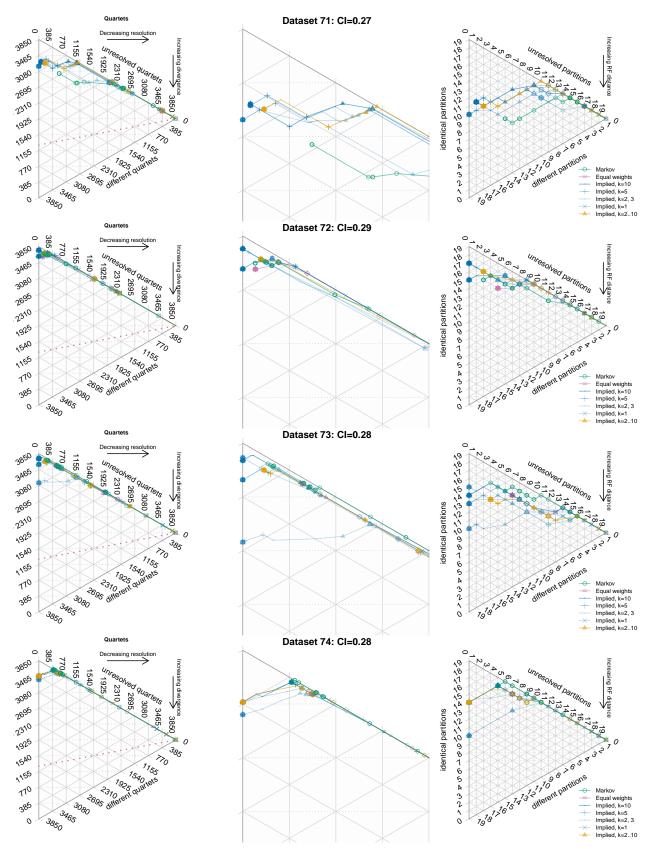
0.8 Trees 61-70

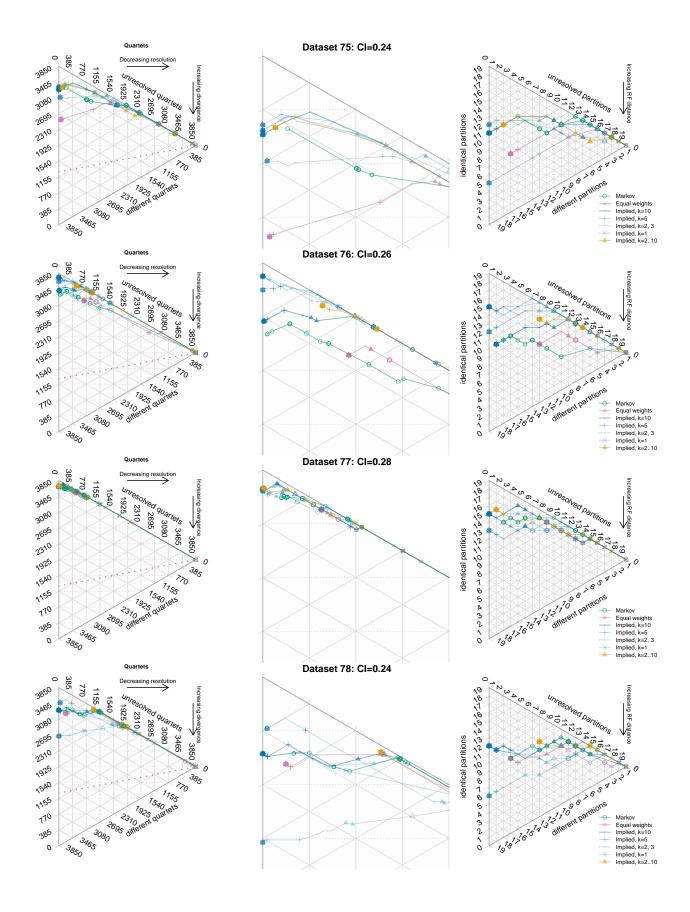


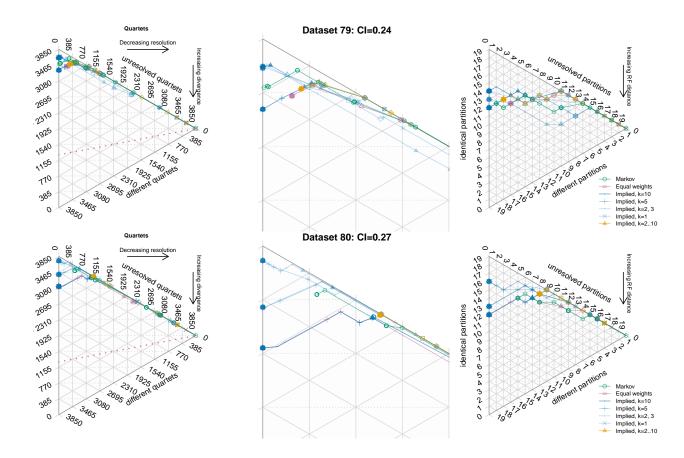




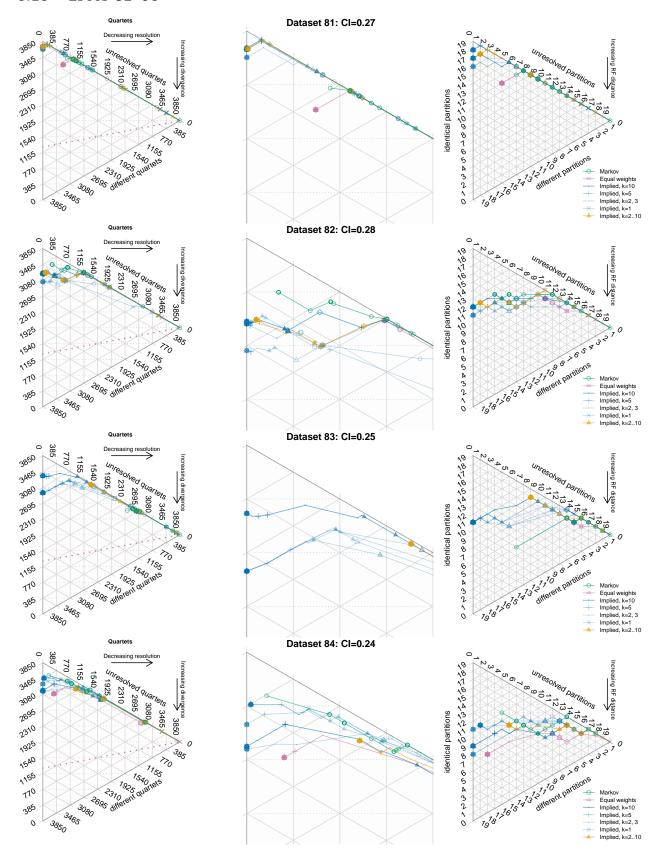
0.9 Trees 71-80

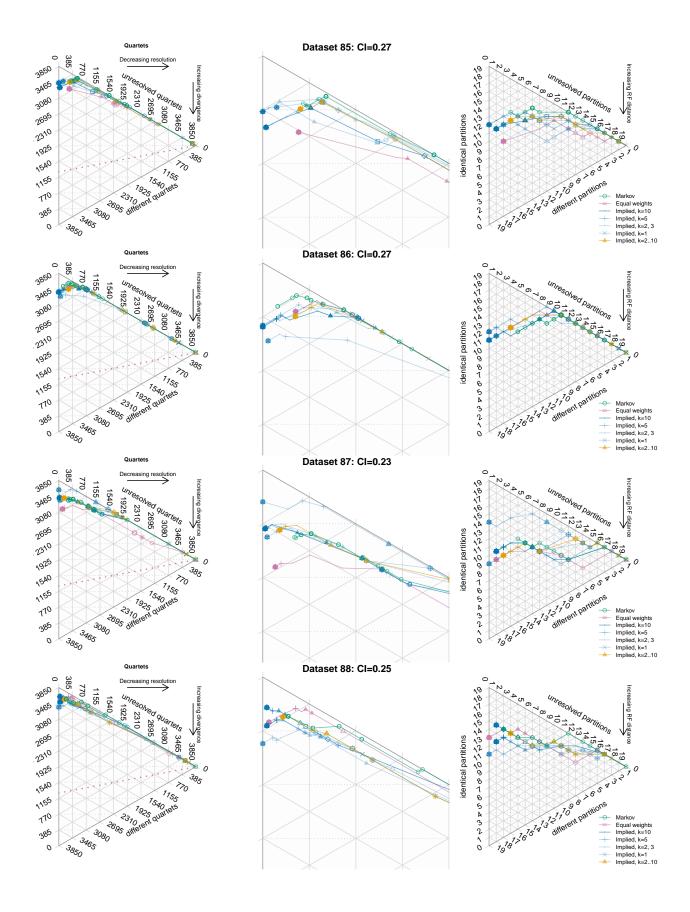


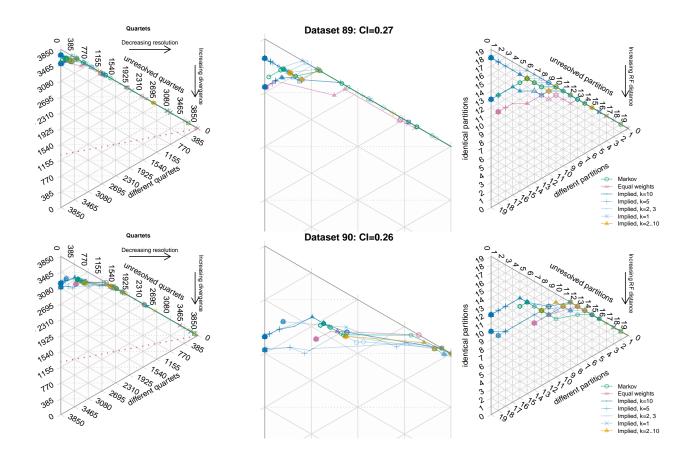




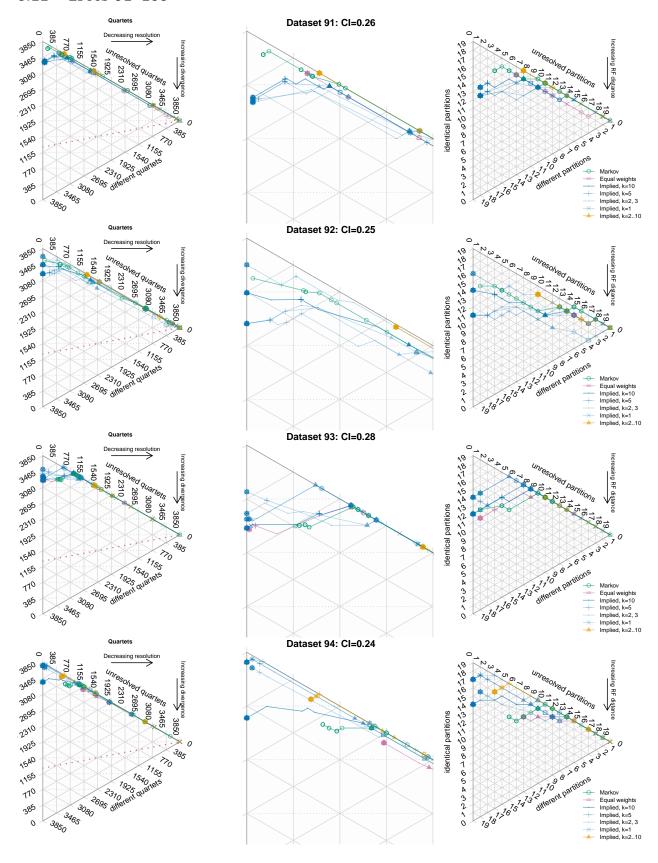
0.10 Trees 81–90

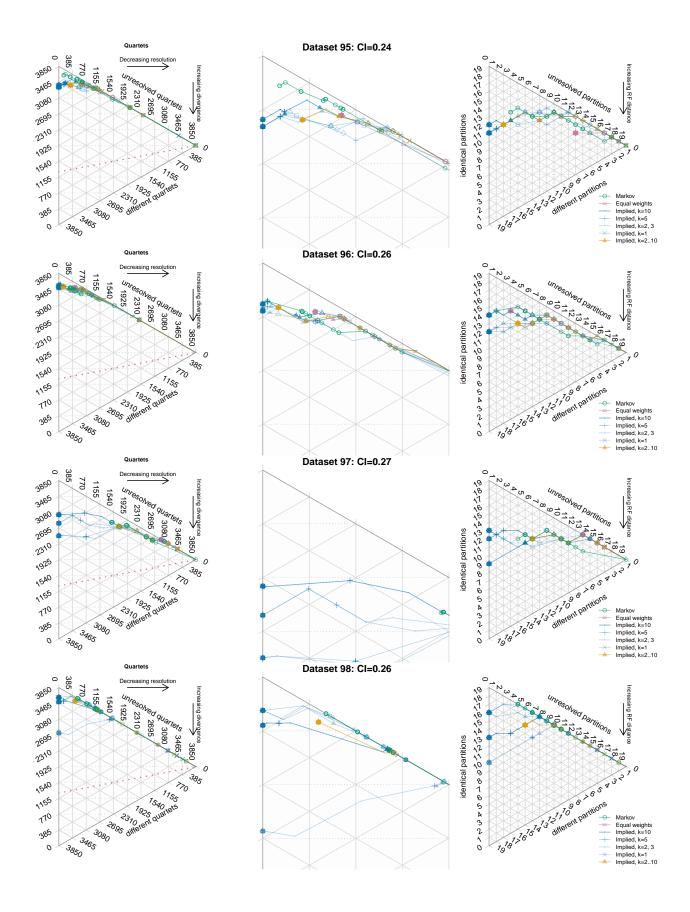


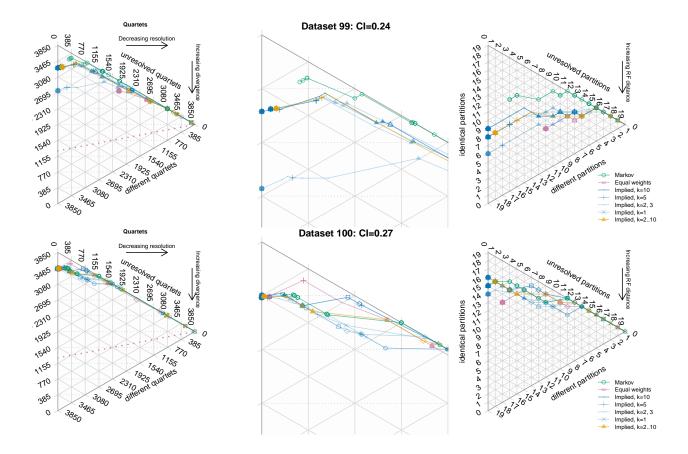




0.11 Trees 91-100







References

- 1. Congreve CR, Lamsdell JC. 2016 Implied weighting and its utility in palaeontological datasets: a study using modelled phylogenetic matrices. *Palaeontology* **59**, 447–465. (doi:10.1111/pala.12236)
- 2. Smith MR. 2019 Bayesian and parsimony approaches reconstruct informative trees from simulated morphological datasets. $Biology\ Letters\ {f 15},\ 20180632.$ (doi:10.1098/rsbl.2018.0632)