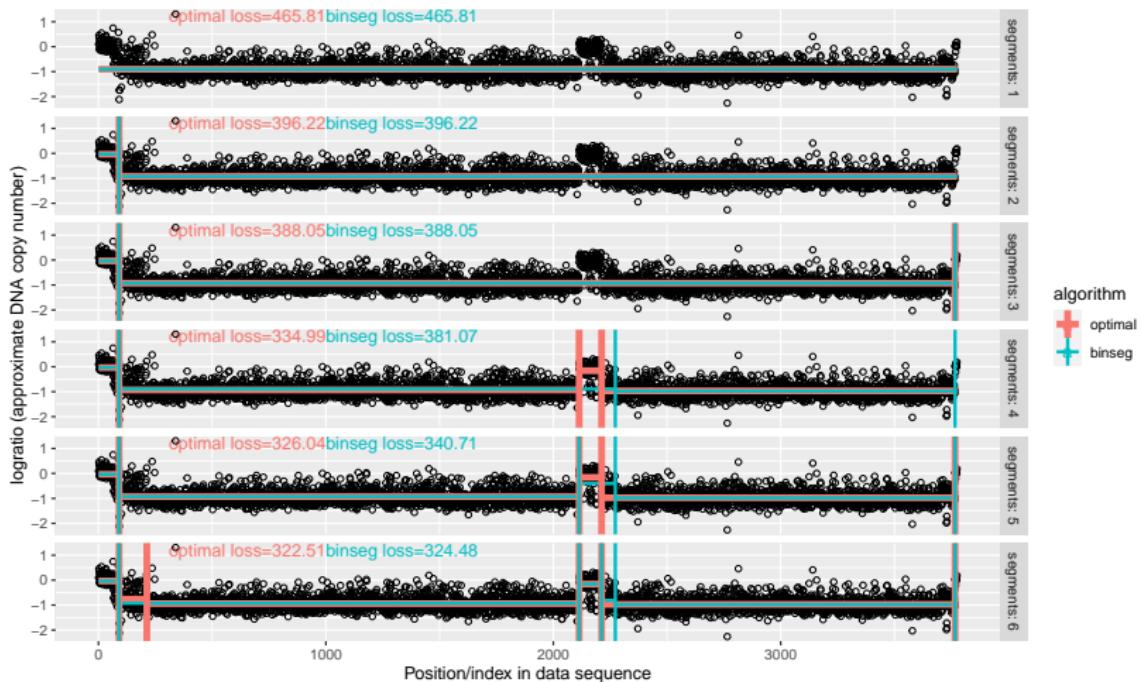


Optimal segmentation

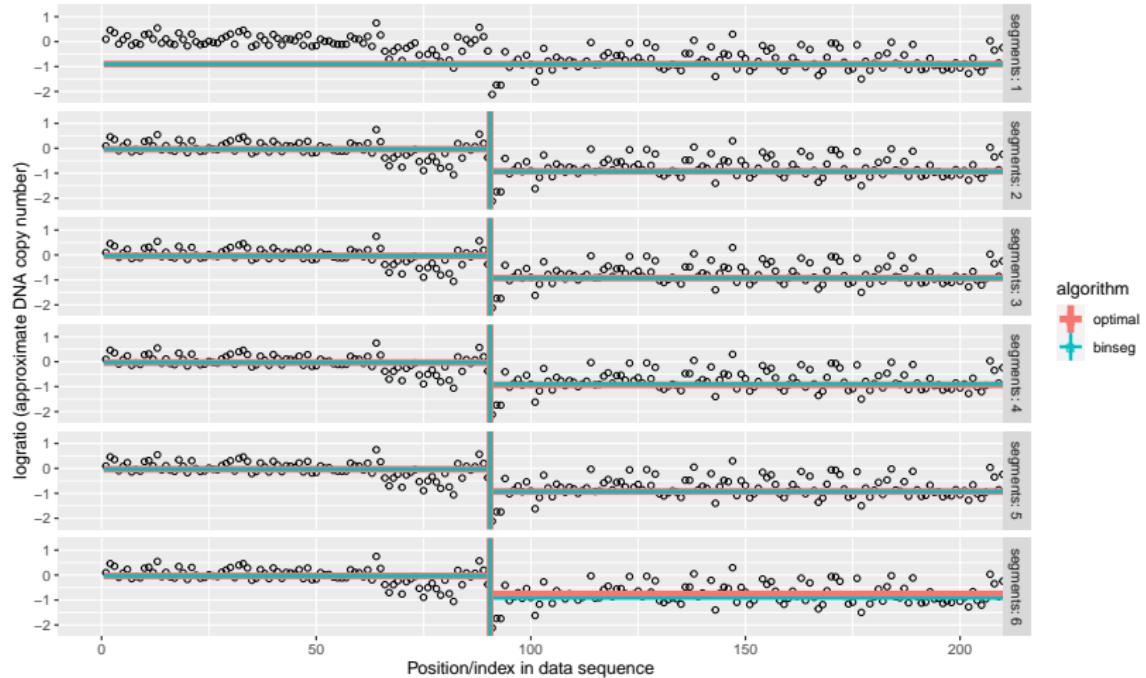
Toby Dylan Hocking

Motivation for optimal detection

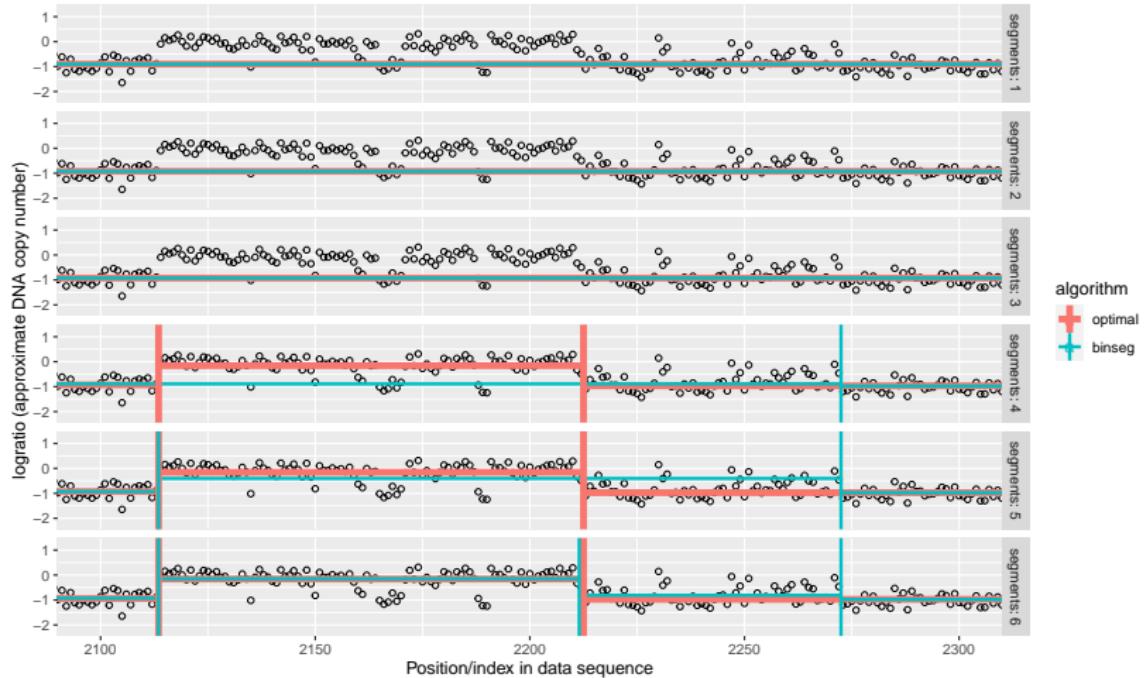
- ▶ Binary segmentation is a greedy algorithm, so sometimes it chooses a changepoint which is sub-optimal for a larger model size.



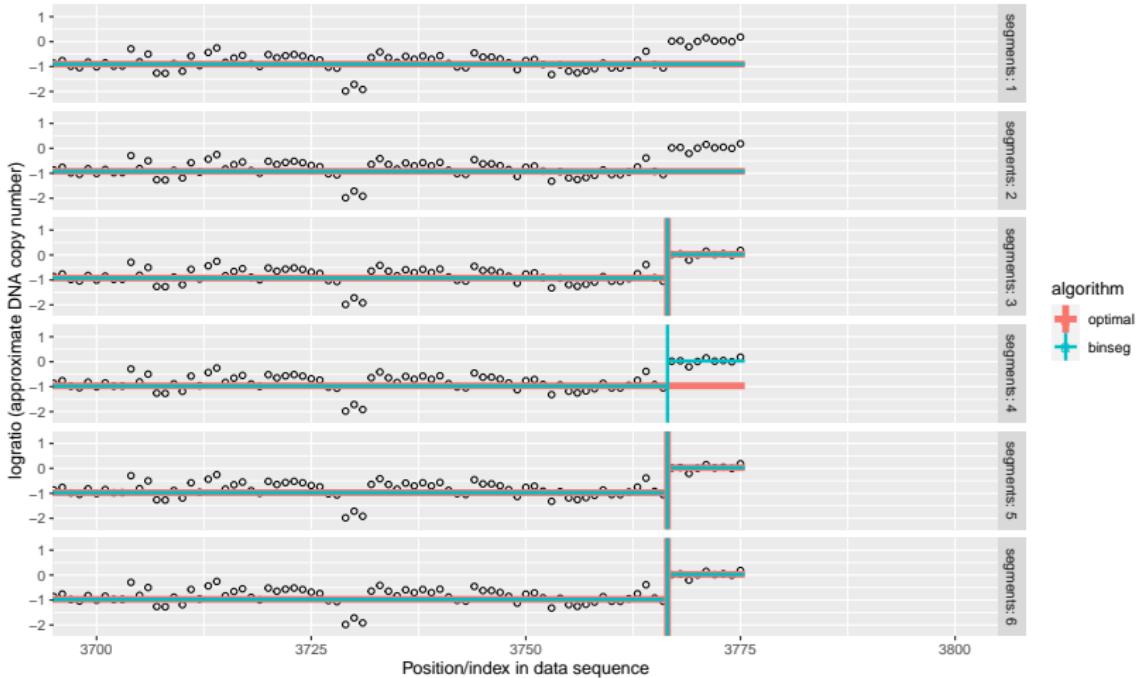
Zoom to start



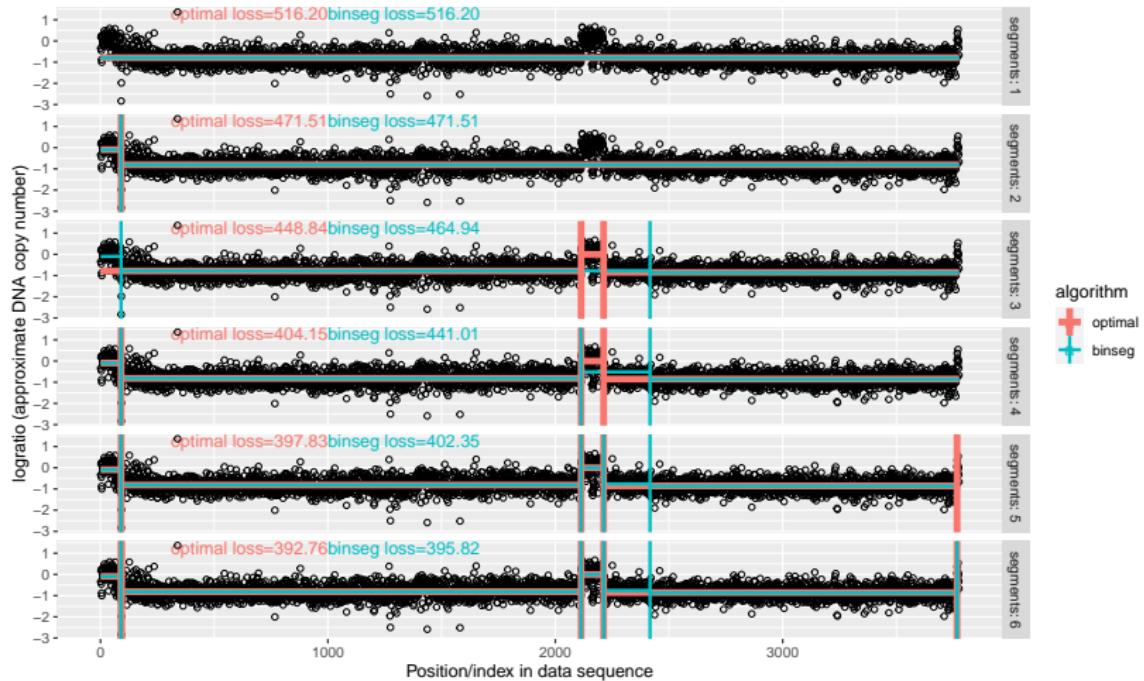
Zoom to center



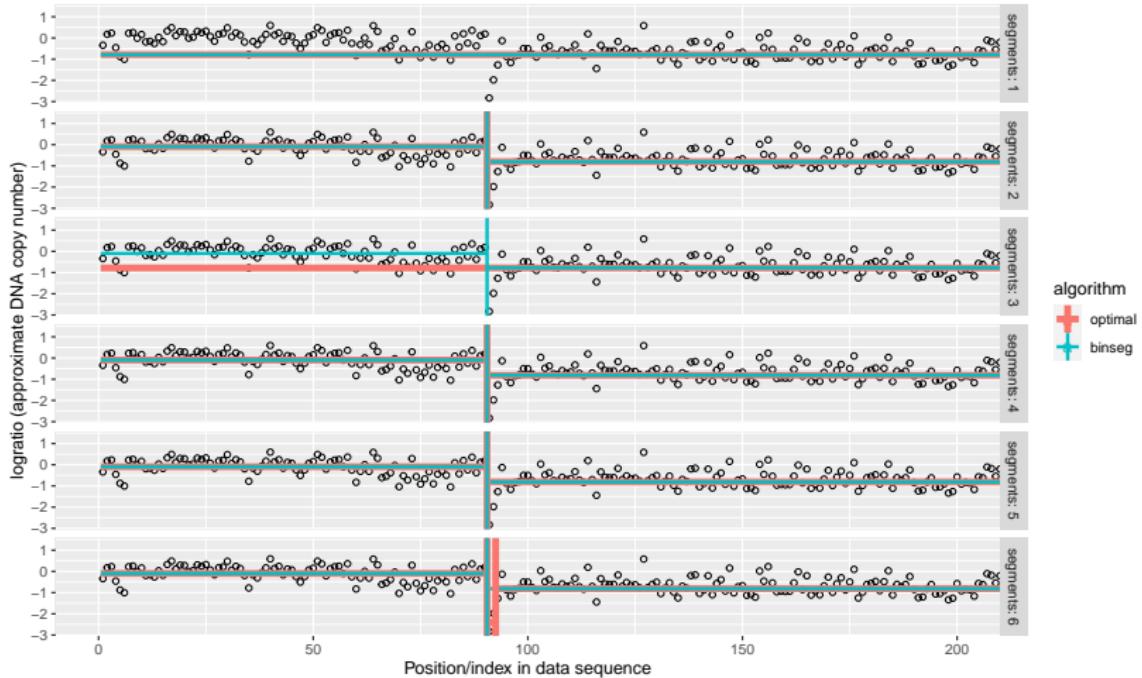
Zoom to end



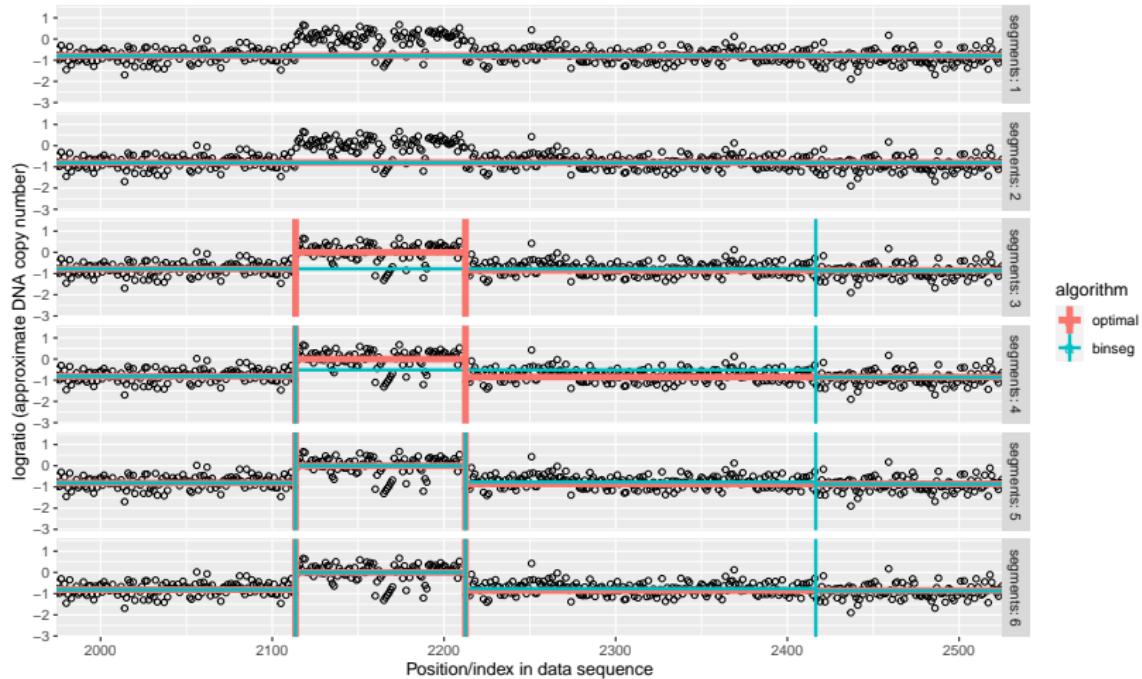
Another example



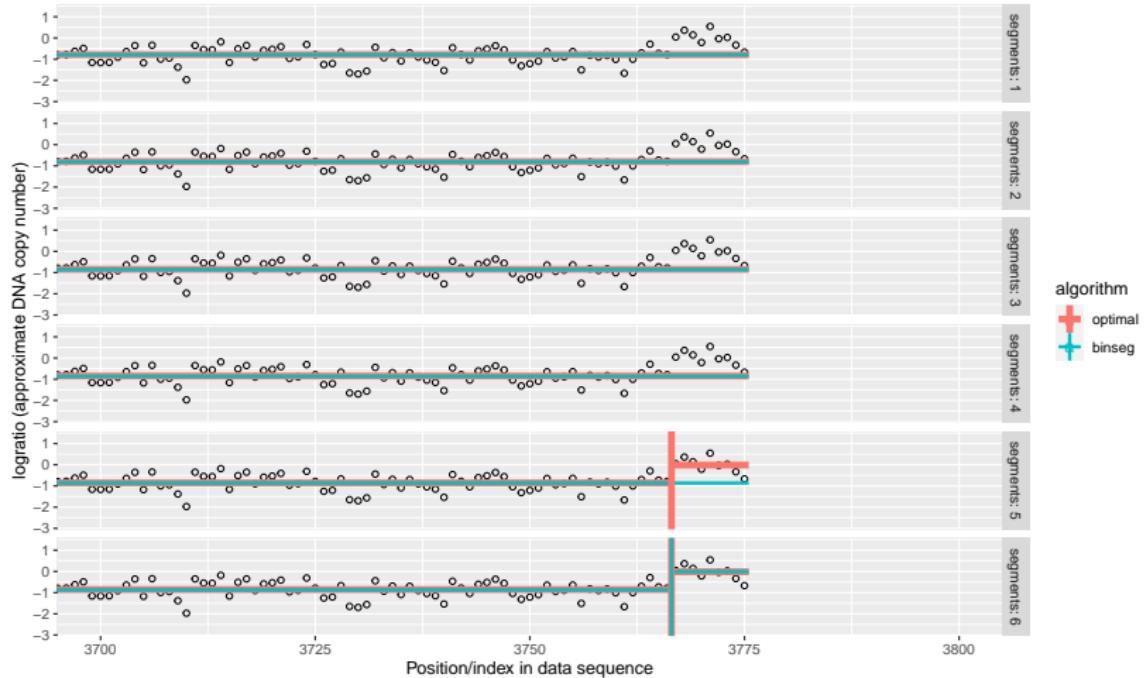
Zoom to start



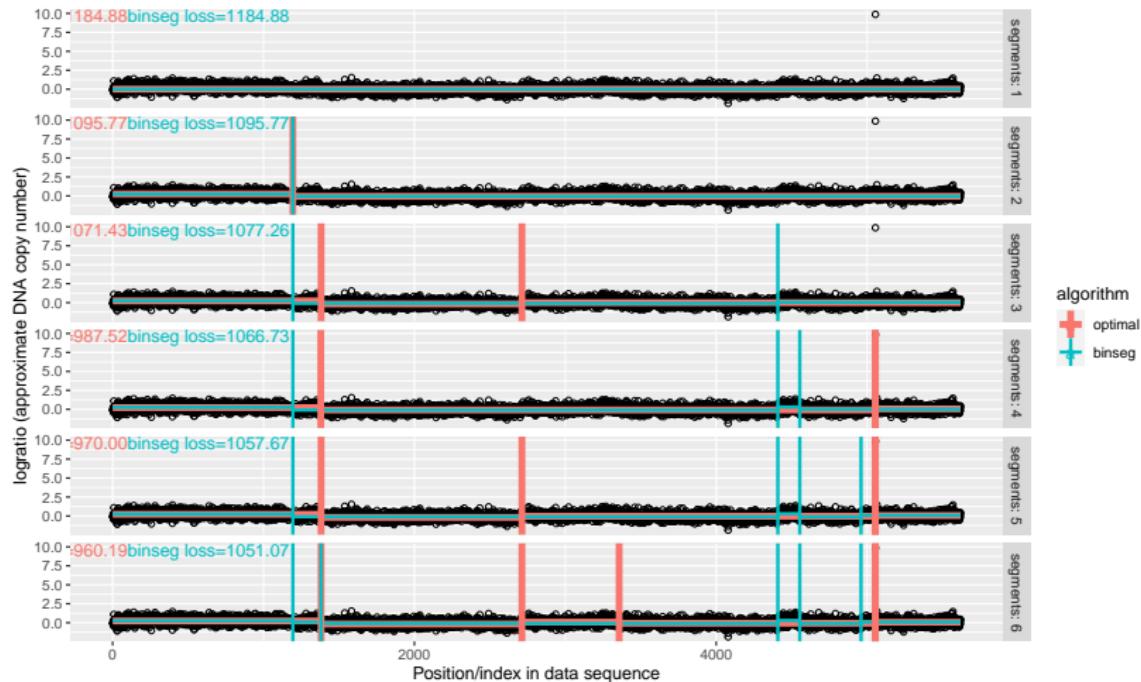
Zoom to center



Zoom to end



Example 3: difficult for binary segmentation to detect an outlier



Example 4: stuck with sub-optimal change

