

16,000 riverbank litter items

A data driven approach to optimizing riverine plastic monitoring

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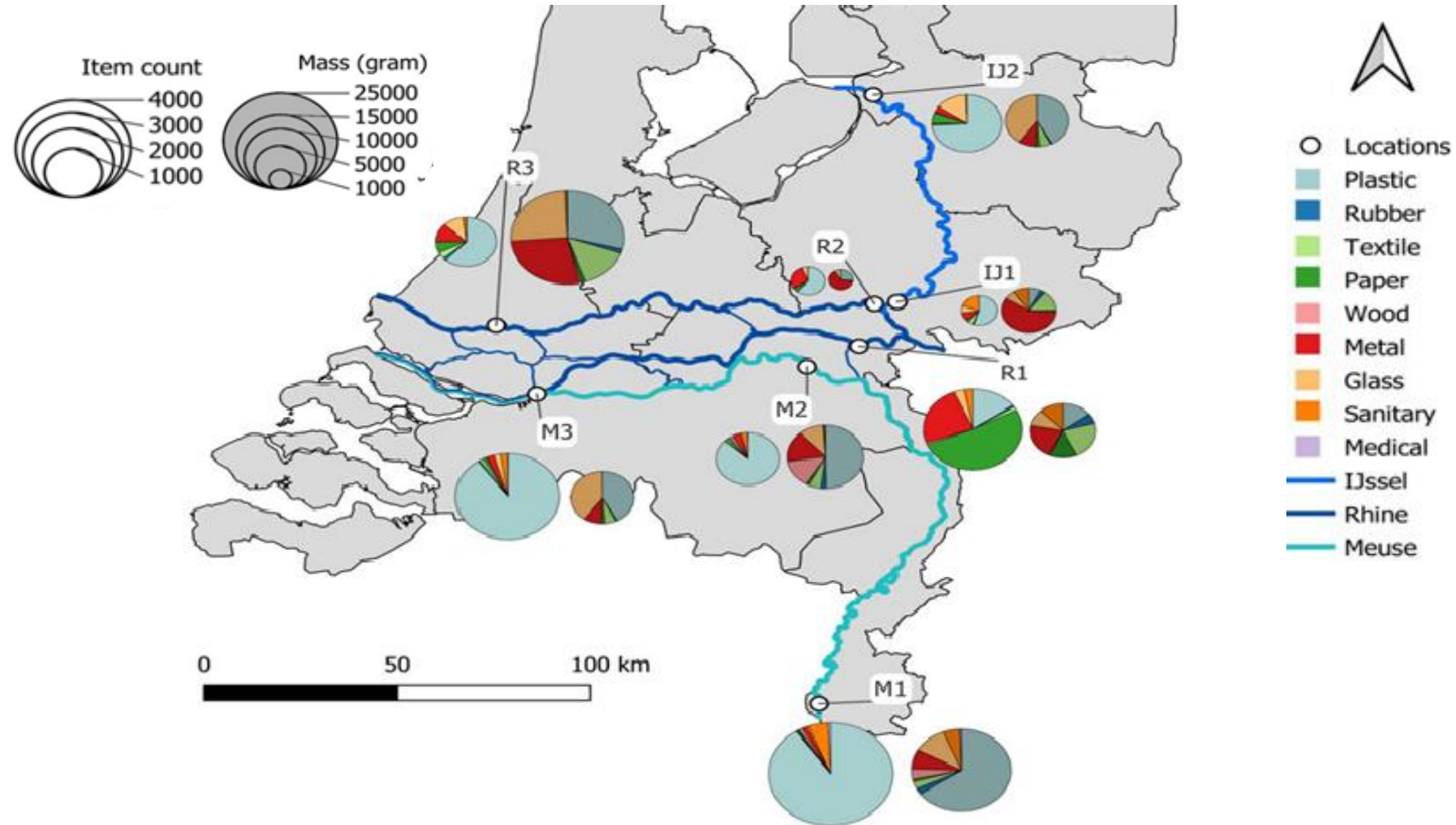


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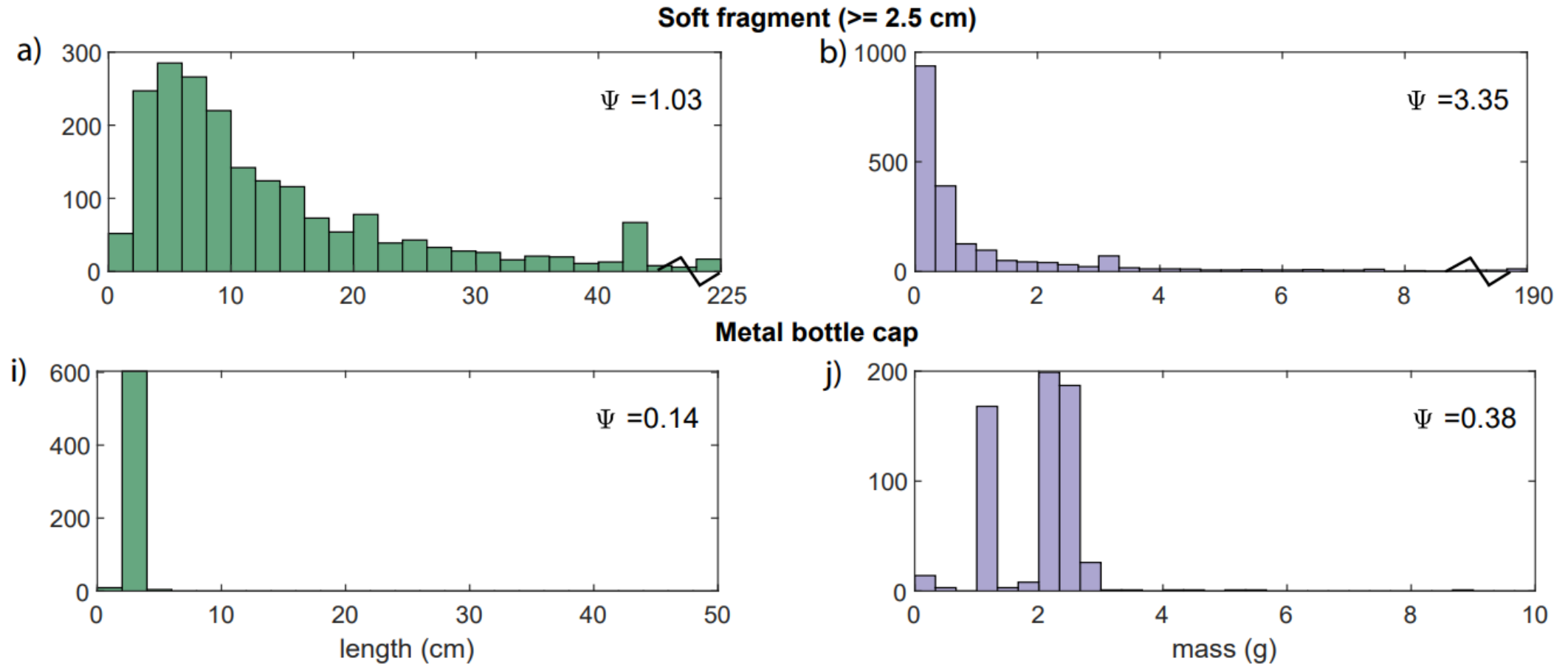
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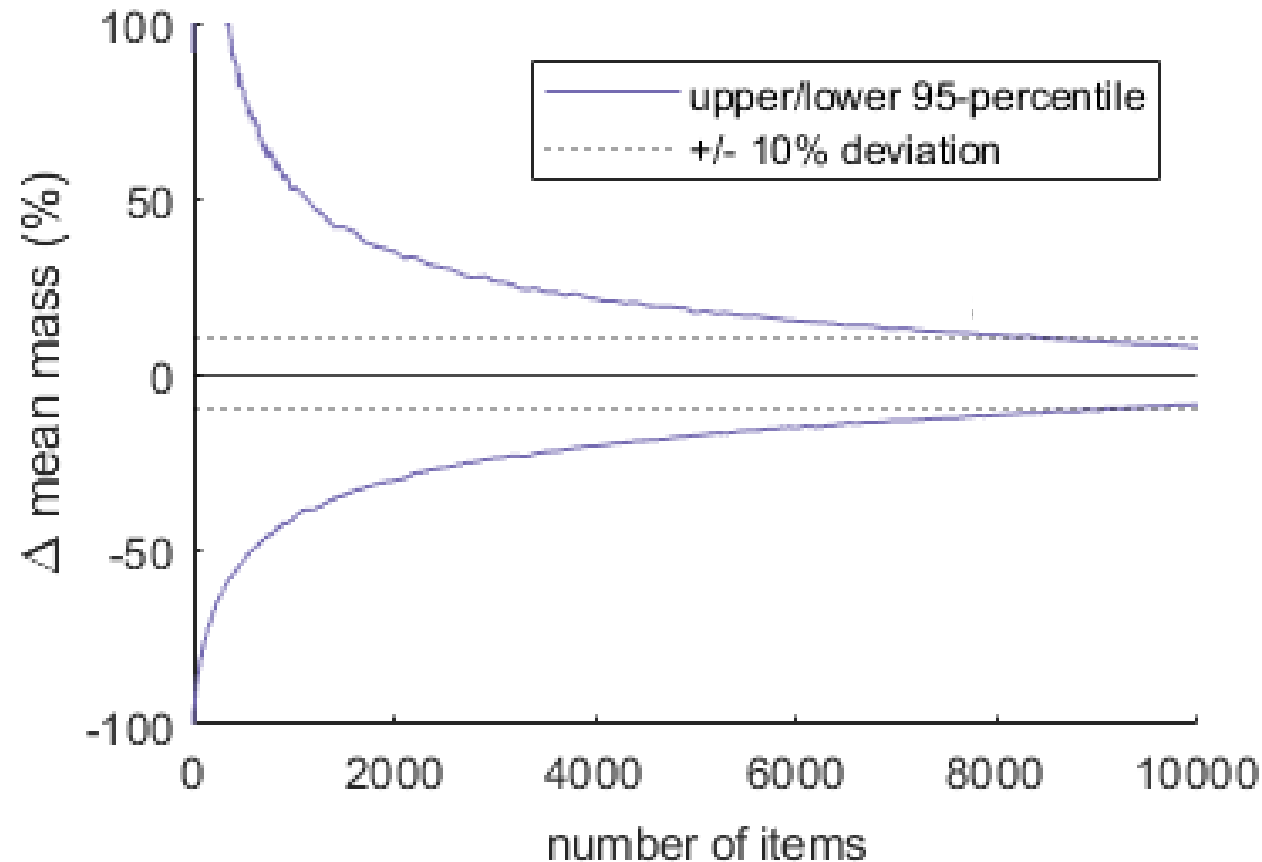
Strong spatial variations in mass and item count



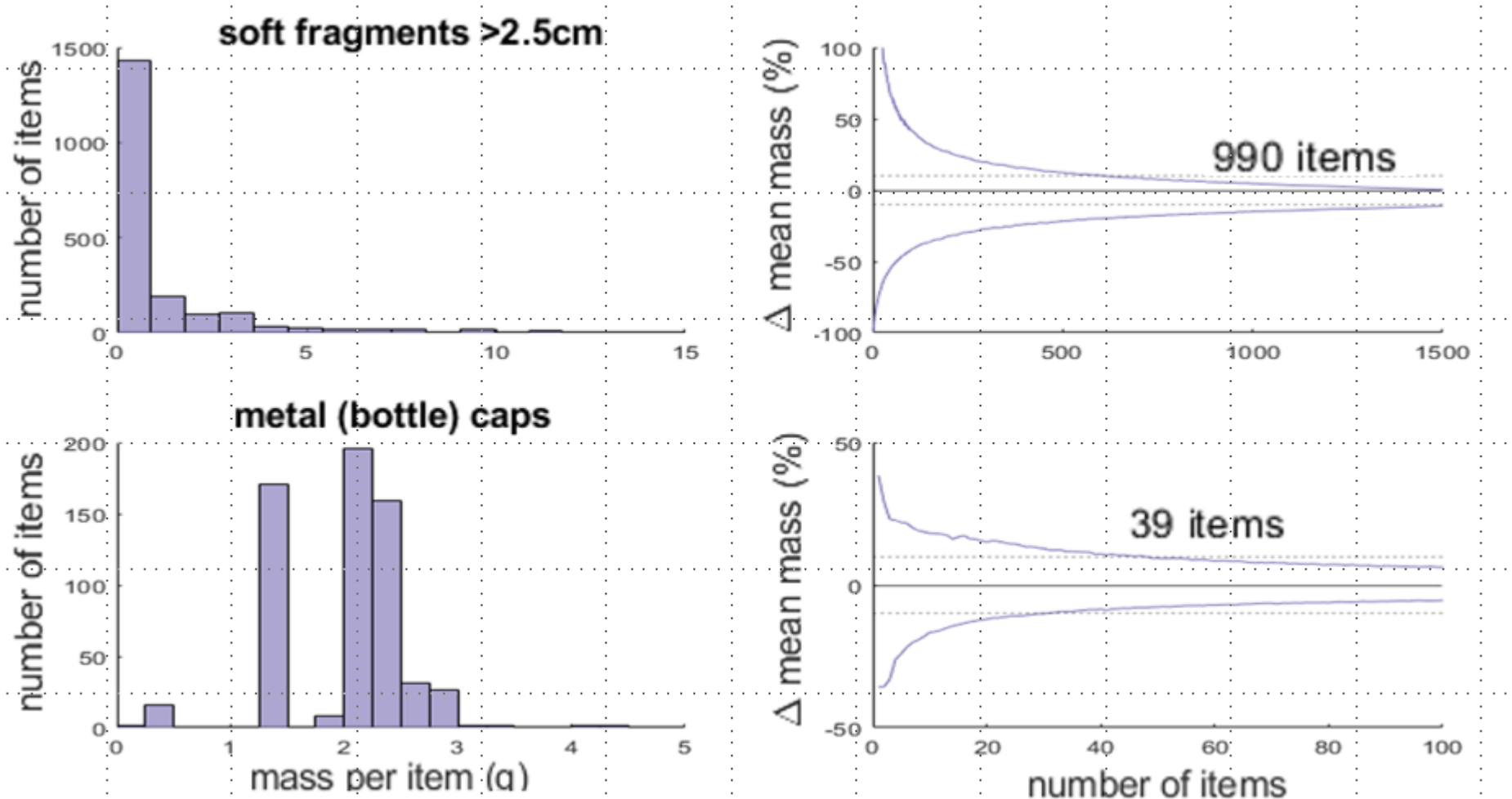
Category heterogeneity Ψ differs with litter type



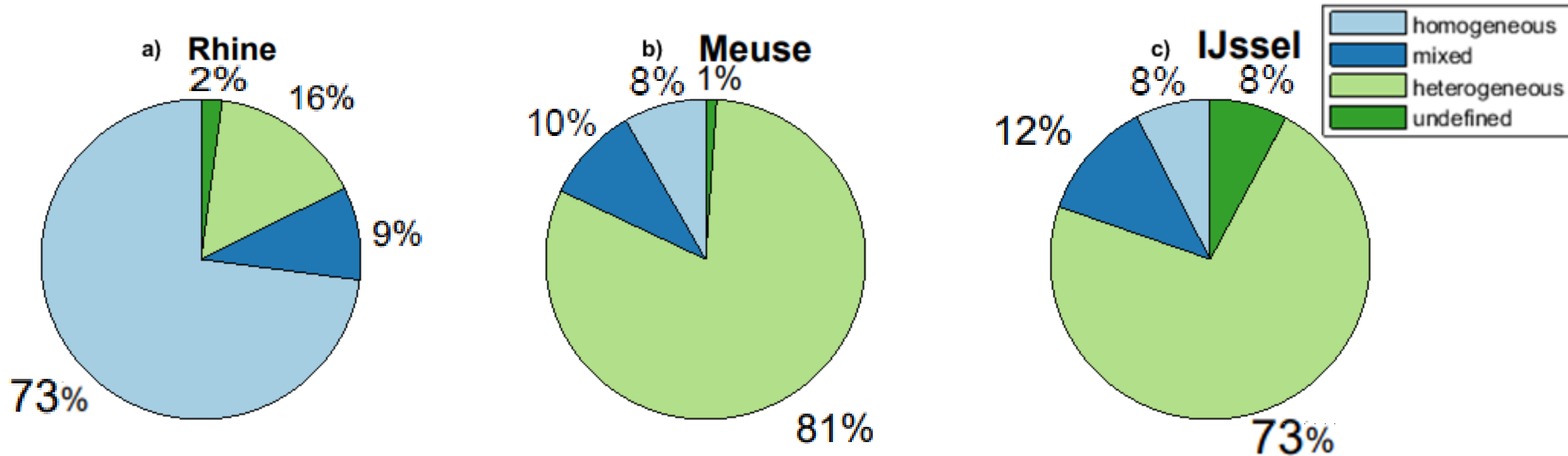
Sample Size Requirements (SSR) are obtained



There is a positive relation between heterogeneity and Sample Size Requirements (SSR)



The method enables description of litter distribution in other systems



Conclusion

- Database with mass, length and category of more than 14,000 riverbank litter items
 - More items need to be collected for heterogeneous systems and item categories
- ➔ SSR give guidelines for future monitoring studies

