

Oikos

OIK-07261

Barros, N., Fernandez, I., Byrne, K. A., Jovani-Sancho, A. J., Ros-Mangriñan, E. and Hansen, L. D. 2020. Thermodynamics of soil organic matter decomposition in semi-natural oak (*Quercus*) woodland in southwest Ireland. – Oikos doi: 10.1111/oik.07261

Appendix 1

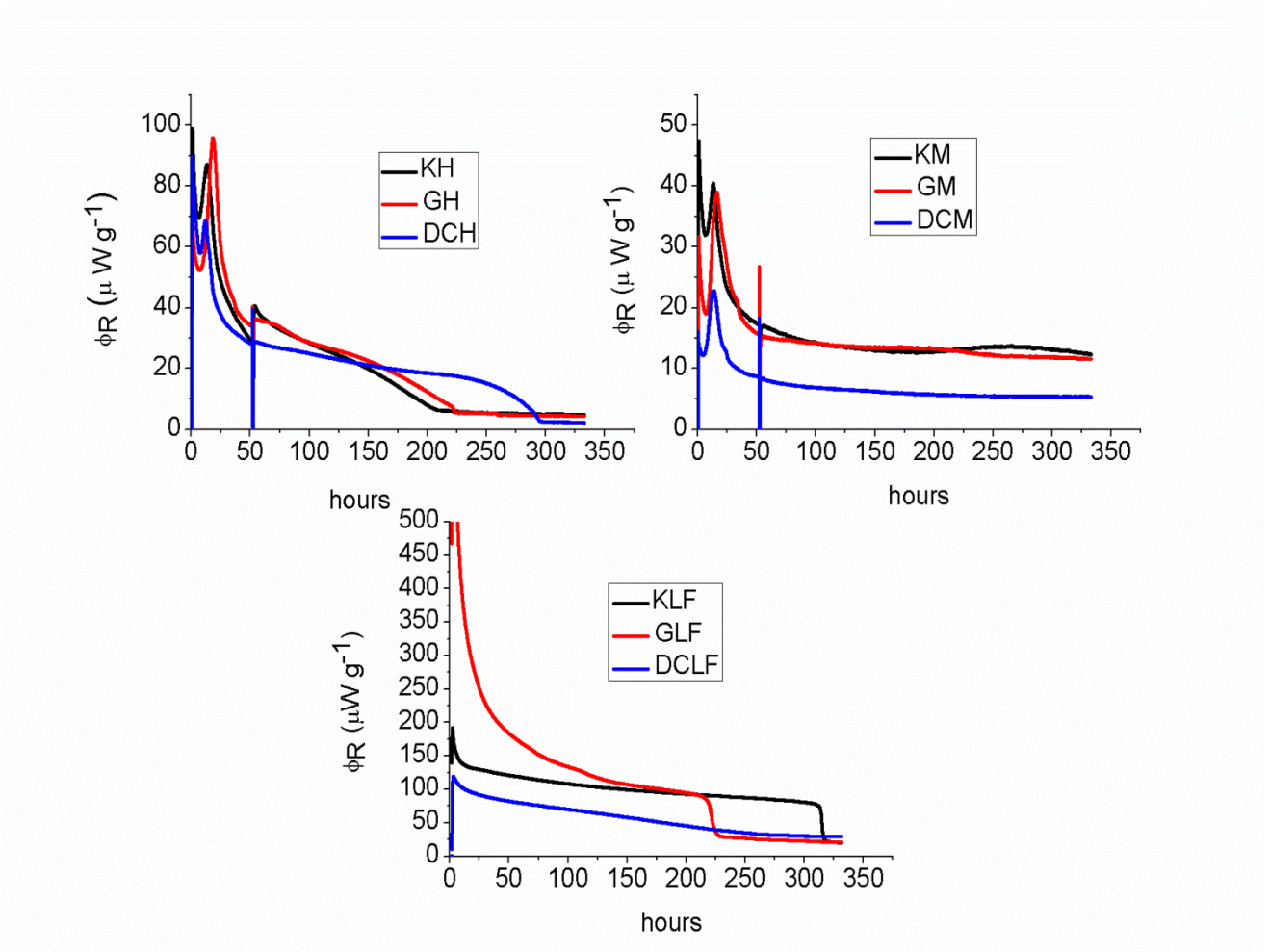


Figure A1. Power-time plots showing the defrosting of samples and their reaction to water addition. H and M samples shows an initial flux of heat when thawing starts. This perturbation takes about 50 hours in those samples. It is clear stabilization is faster in M than H samples. Therefore, the time settled for these samples to stabilize at the laboratory temperature (22°C) was for two weeks. This initial perturbation is not observed in the L/F samples which show a stable and slow heat flow rate decline during defrosting. L/F samples were stabilized at the laboratory temperature during 10 days. This stabilization took place at laboratory conditions preserving the water content and aeration of samples.

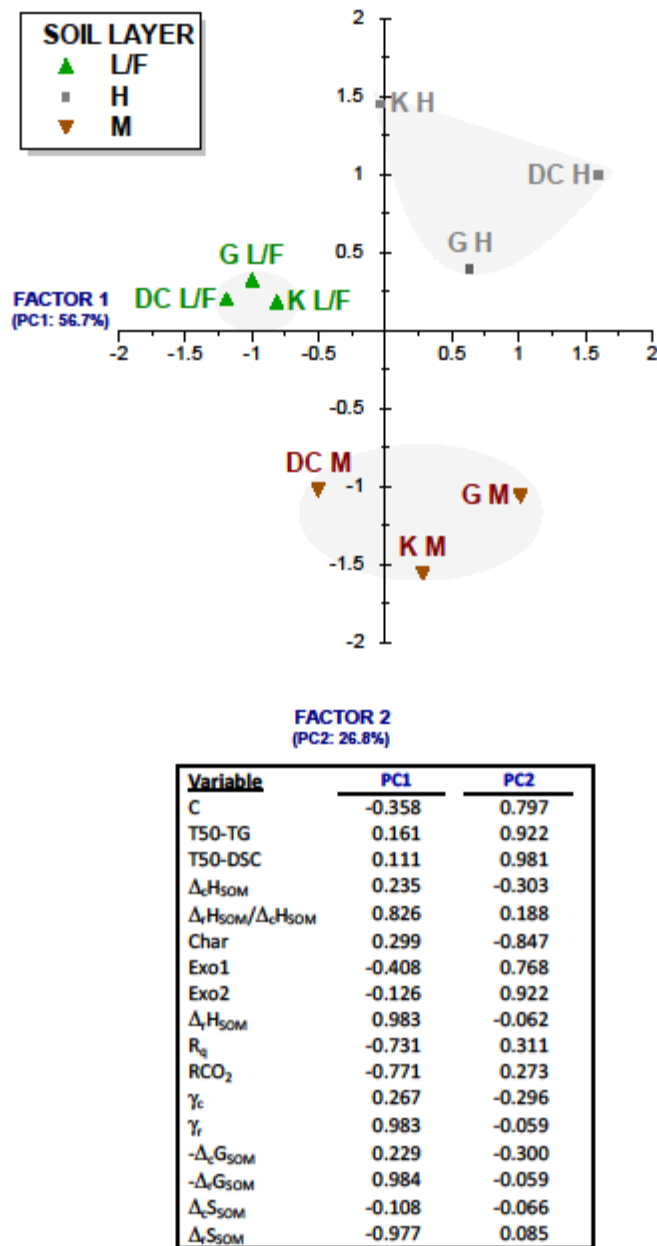


Figure A2. Results of the initial PCA analysis involving all the variables determined for the soil samples. These results were the reference to settle the conditions for the PCA in the paper.