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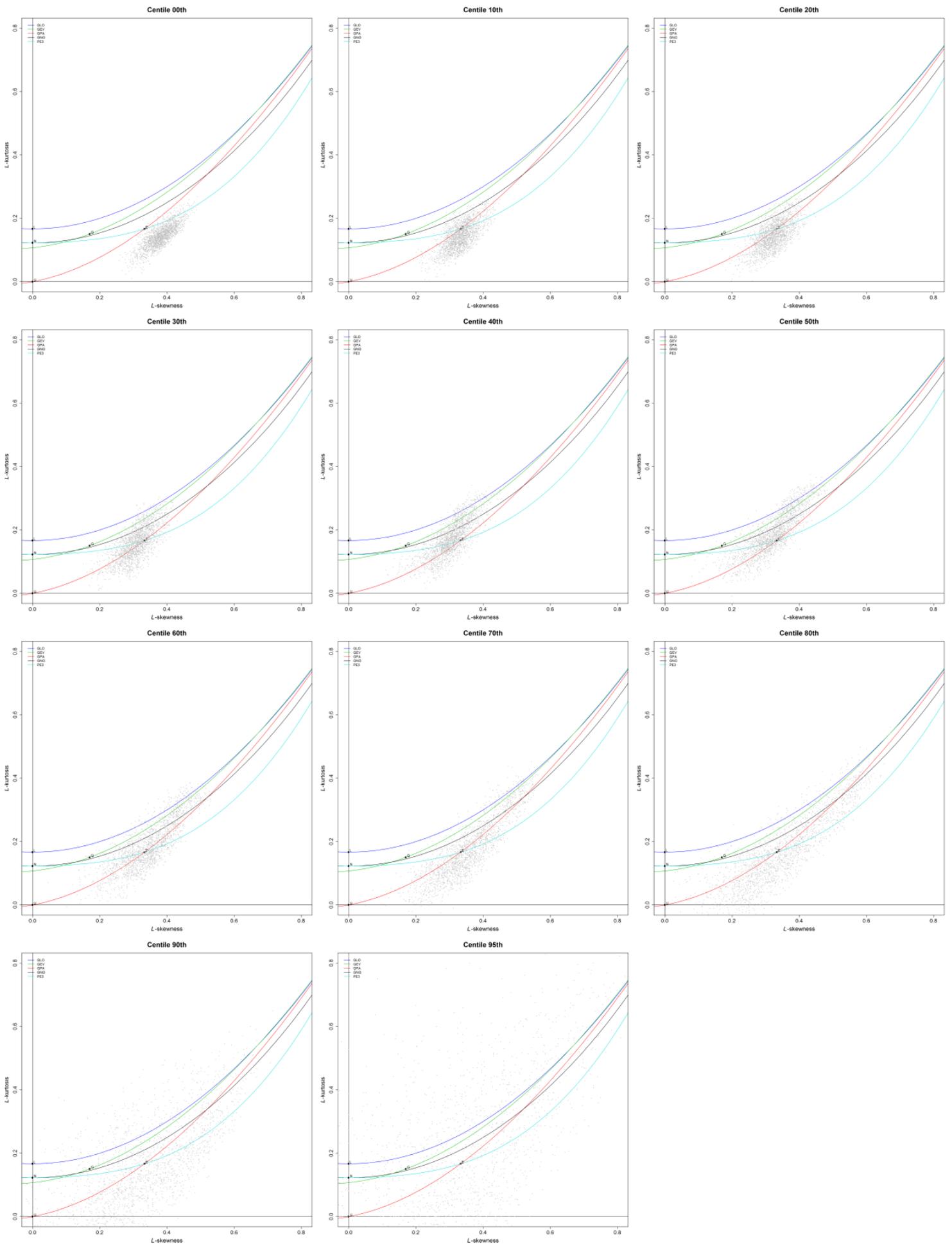
Supplement of

High-spatial-resolution probability maps of drought duration and magnitude across Spain

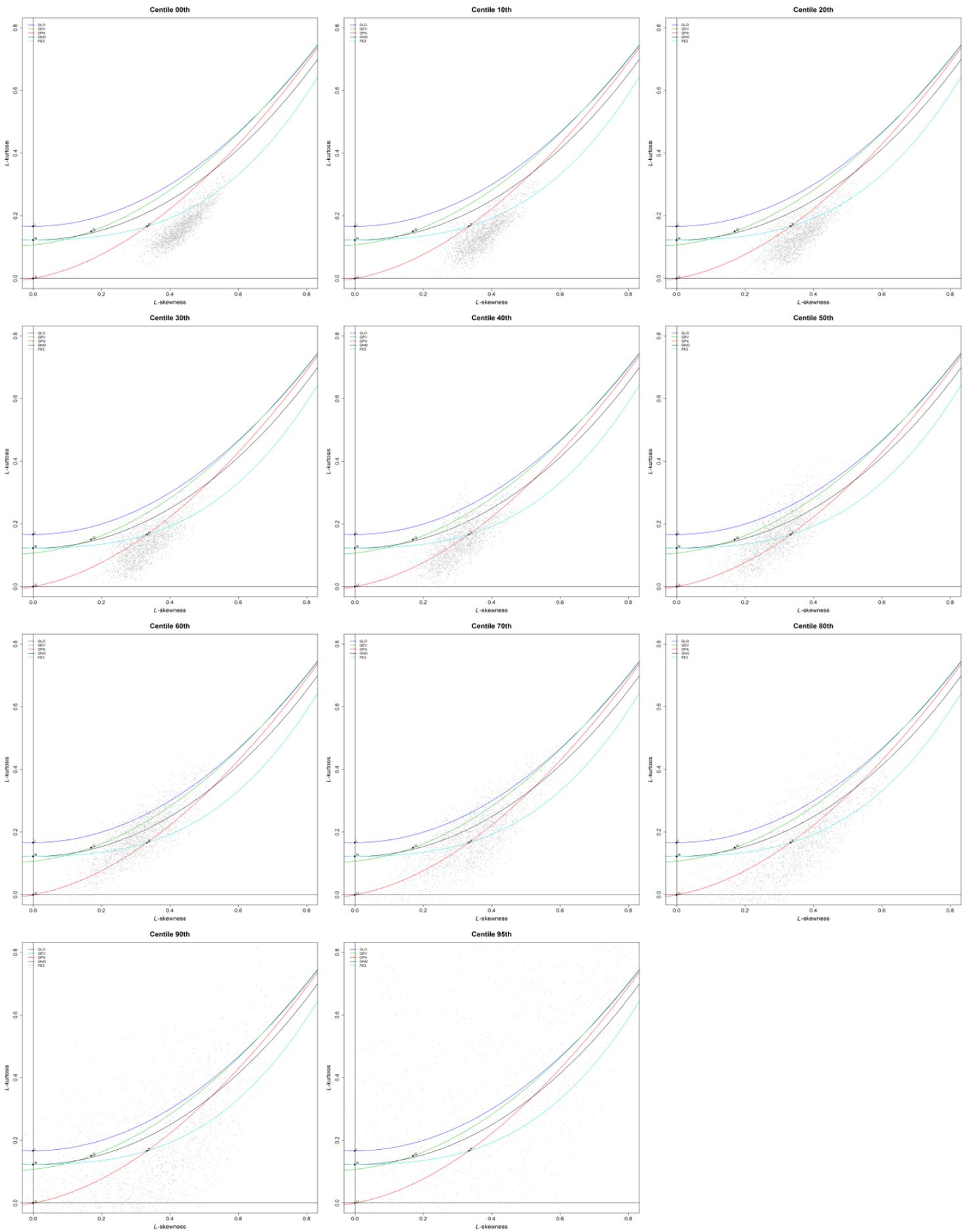
Fernando Domínguez-Castro et al.

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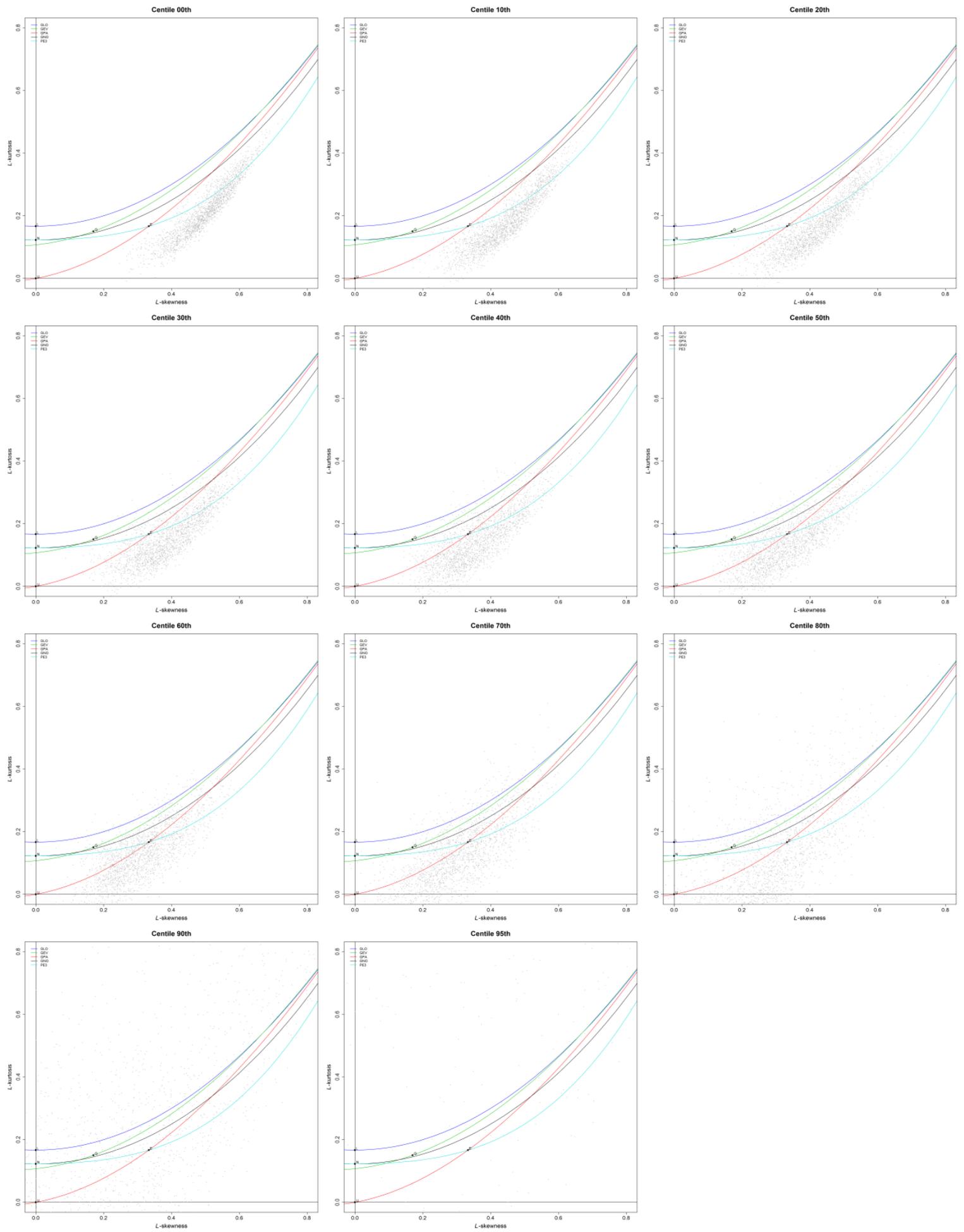
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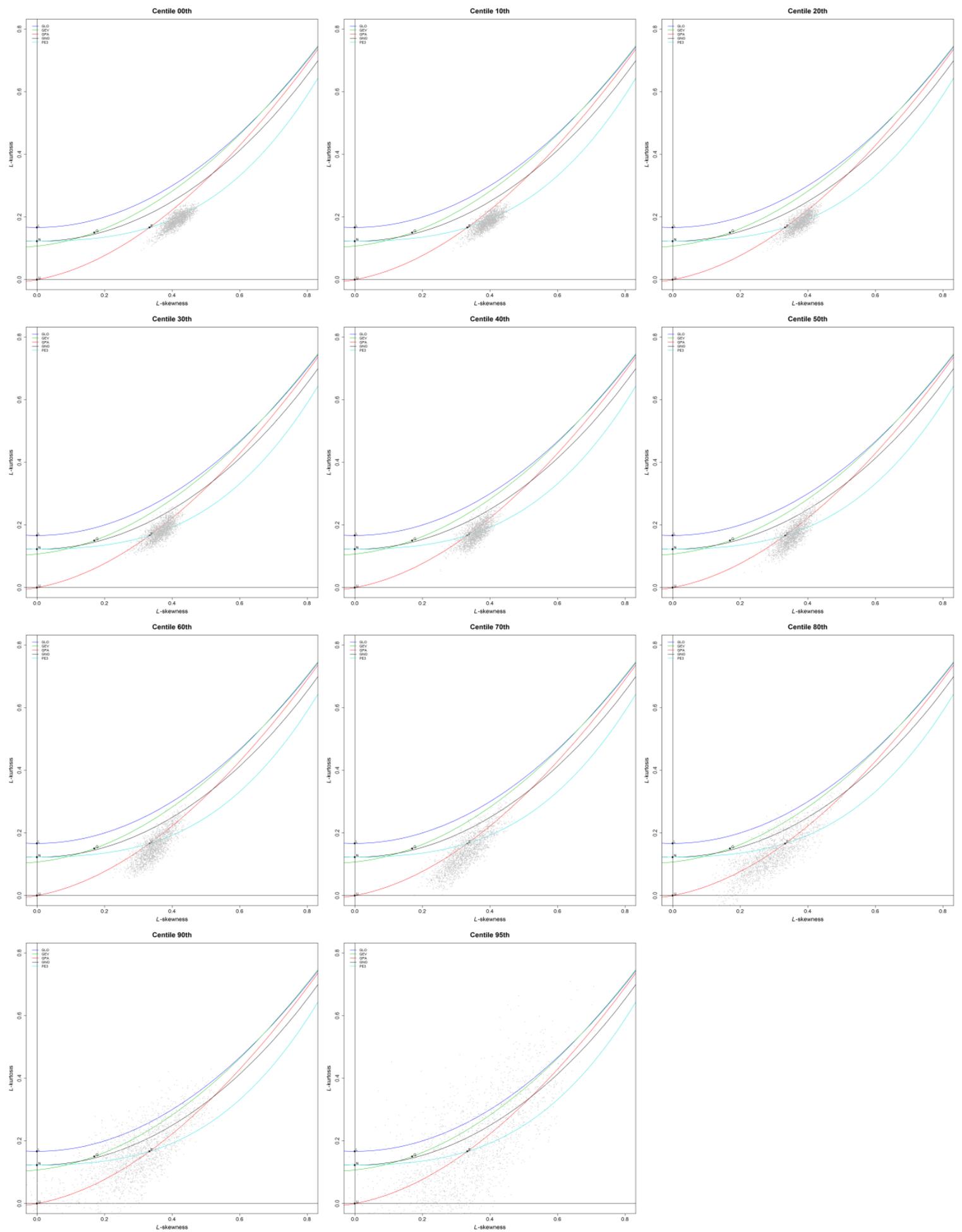
Supplementary Figure 1: L-moment diagrams for the peak-over-threshold series obtained from the 3-month SPEI duration series



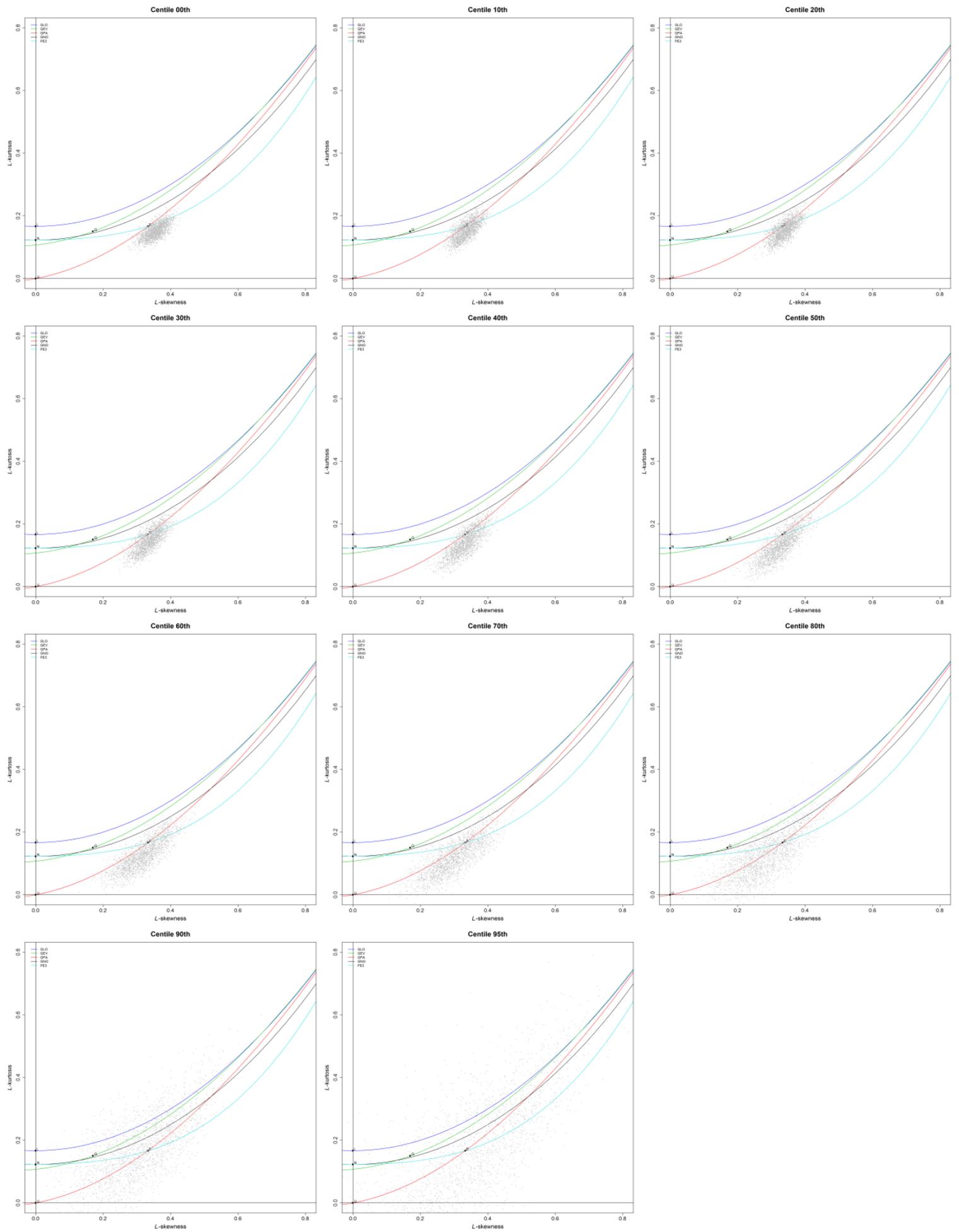
Supplementary Figure 2: L-moment diagrams for the peak-over-threshold series obtained from the 6-month SPEI duration series



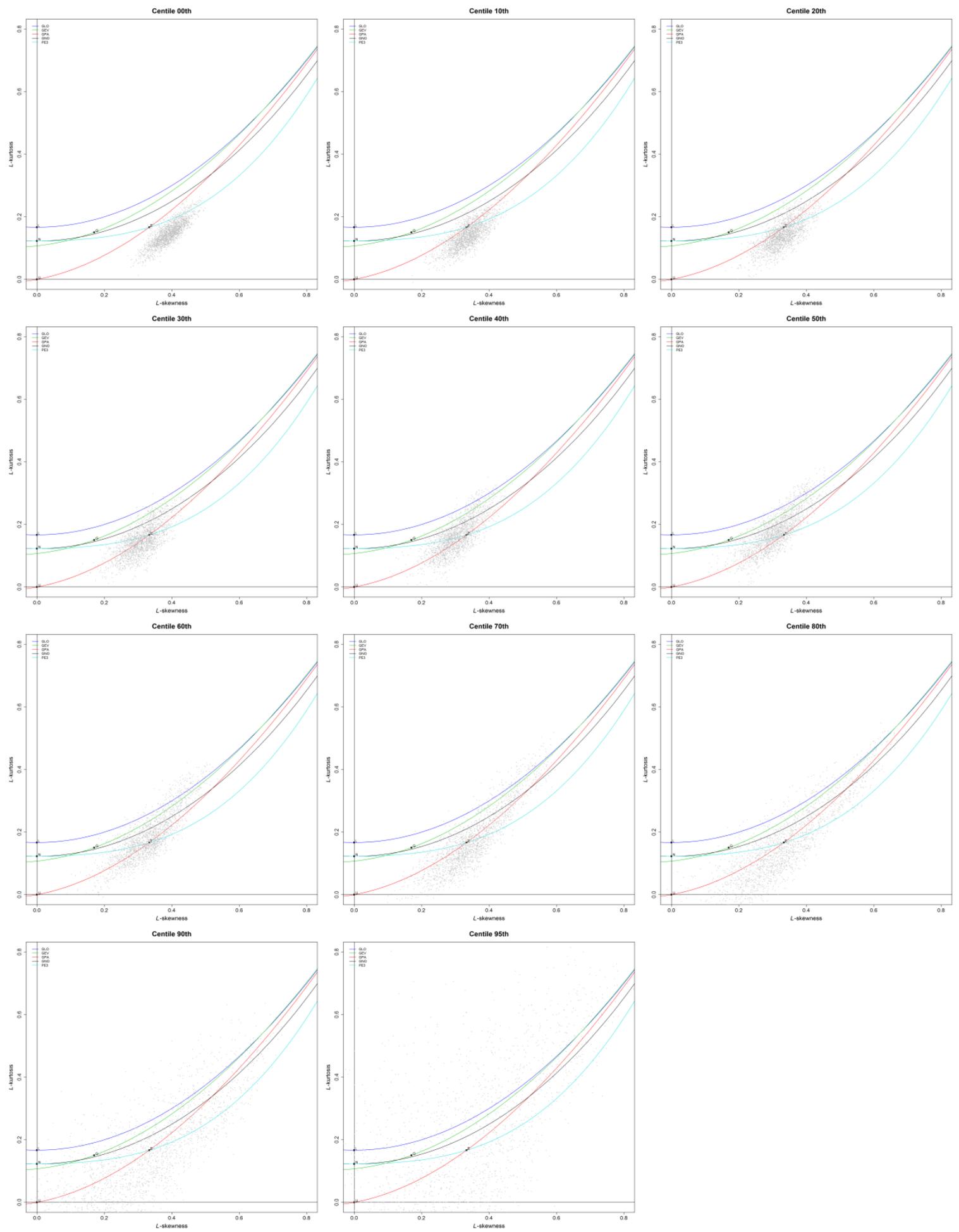
Supplementary Figure 3: L-moment diagrams for the peak-over-threshold series obtained from the 12-month SPEI duration series



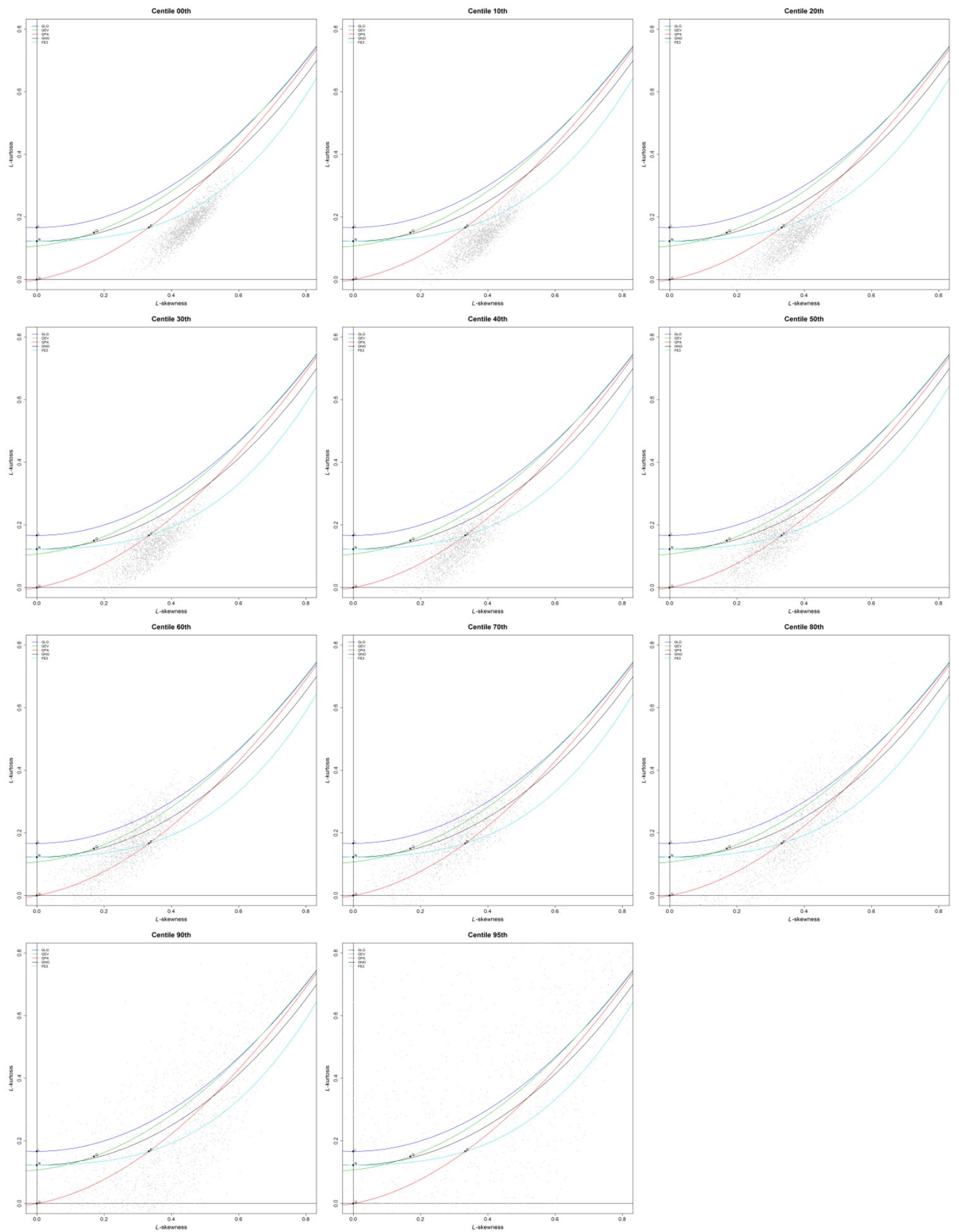
Supplementary Figure 4: L-moment diagrams for the peak-over-threshold series obtained from the 1-month SPEI magnitude series



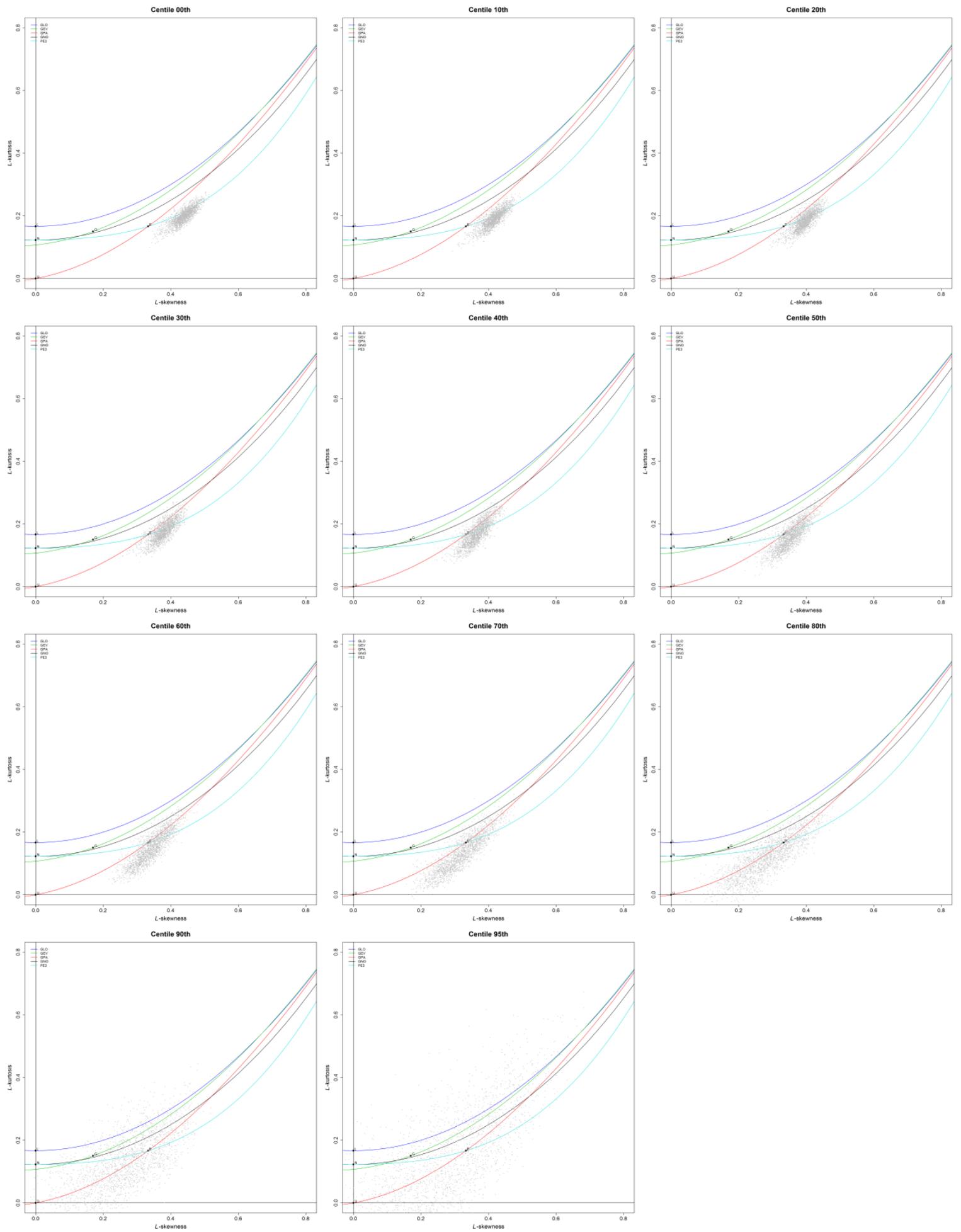
Supplementary Figure 7: L-moment diagrams for the peak-over-threshold series obtained from the 1-month SPI duration series



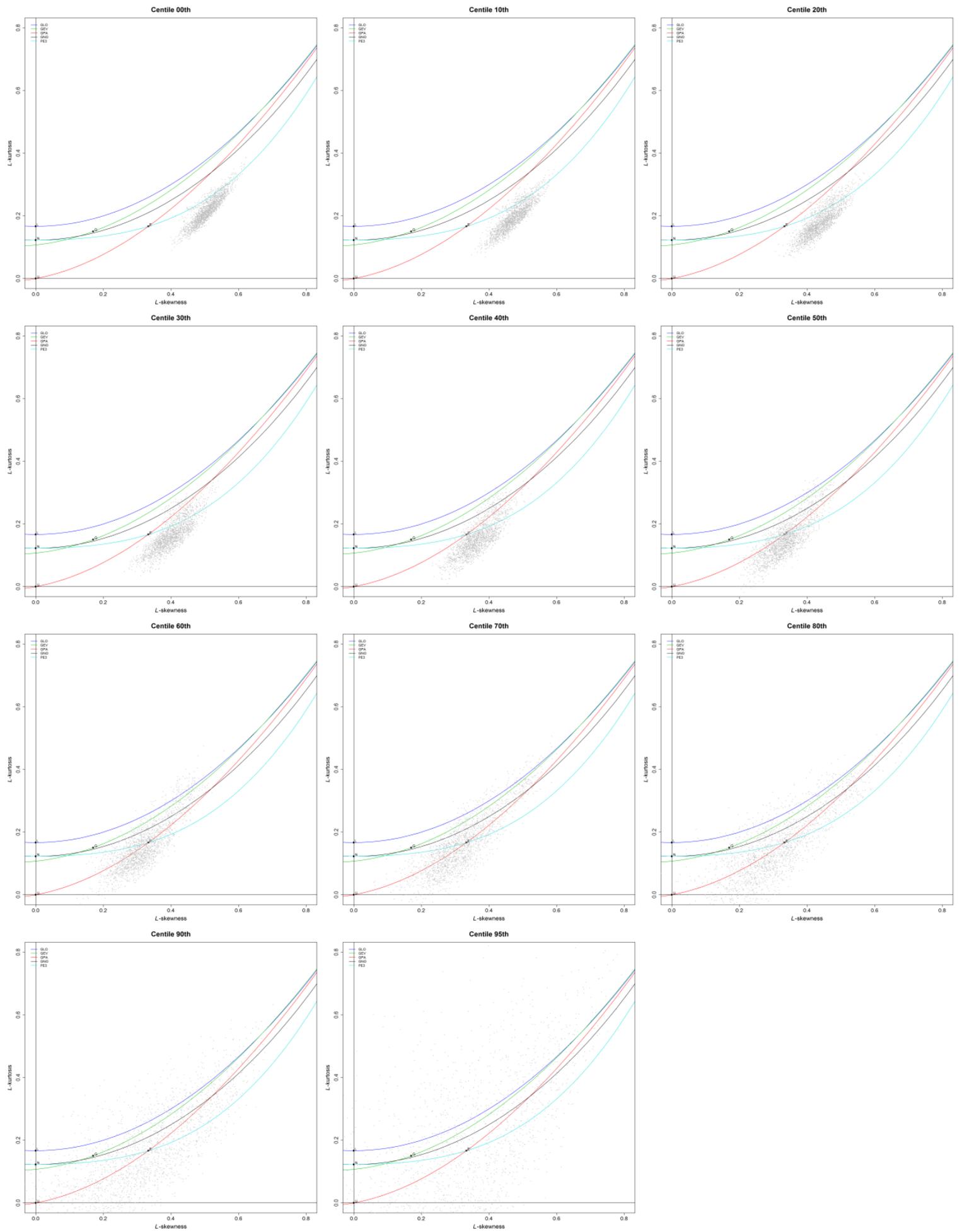
Supplementary Figure 8: L-moment diagrams for the peak-over-threshold series obtained from the 3-month SPI duration series



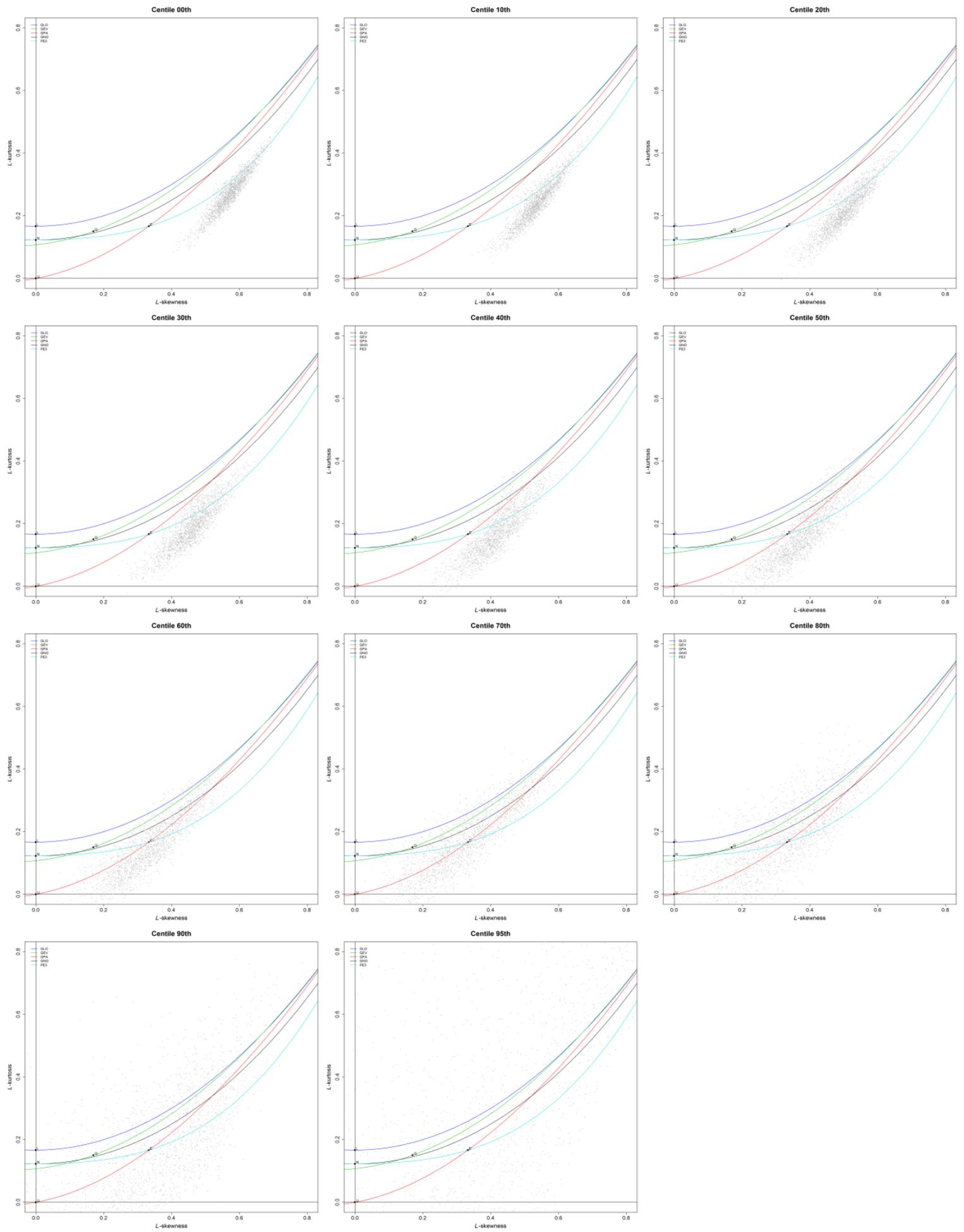
Supplementary Figure 9: L-moment diagrams for the peak-over-threshold series obtained from the 6-month SPI duration series



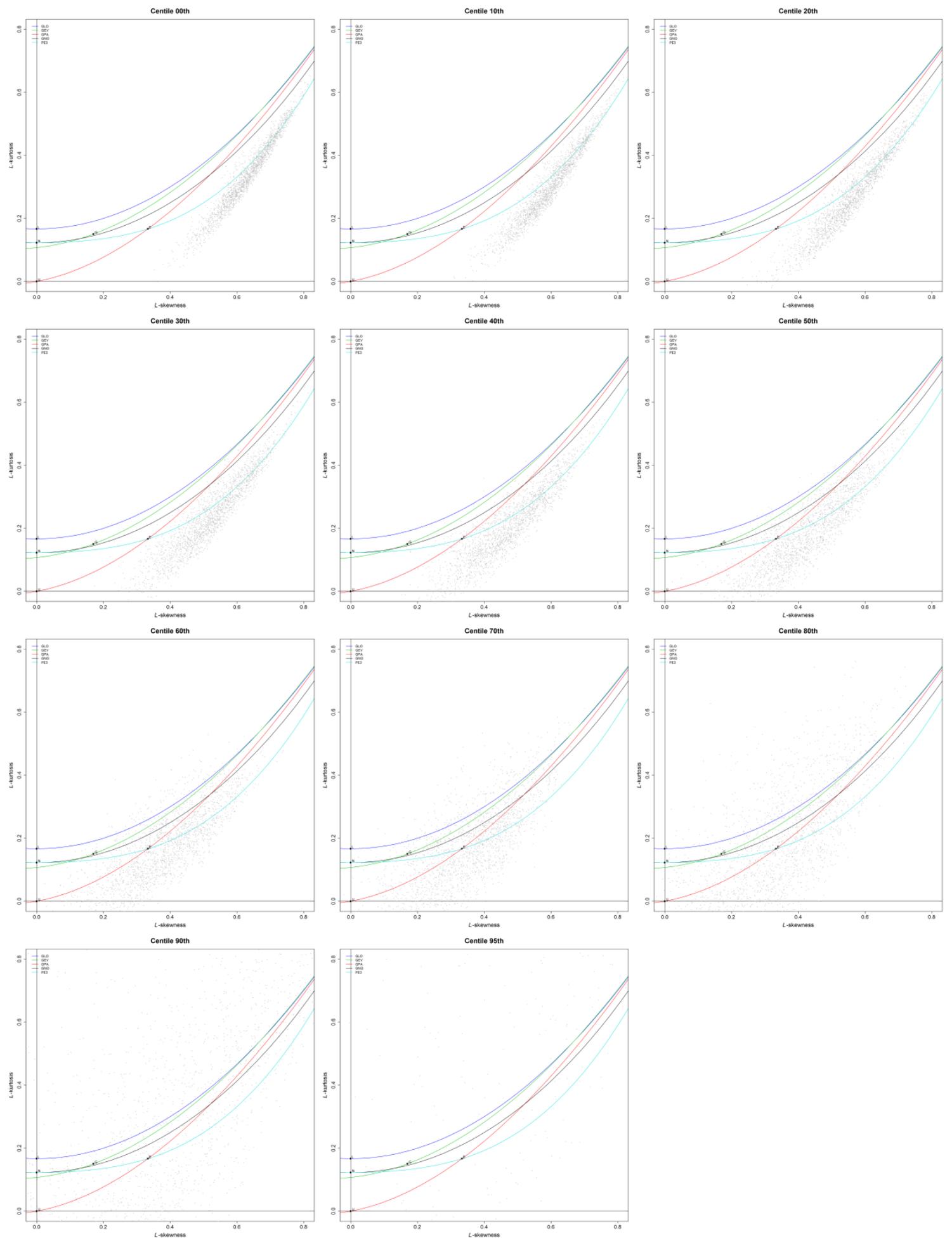
Supplementary Figure 11: L-moment diagrams for the peak-over-threshold series obtained from the 1-month SPI magnitude series



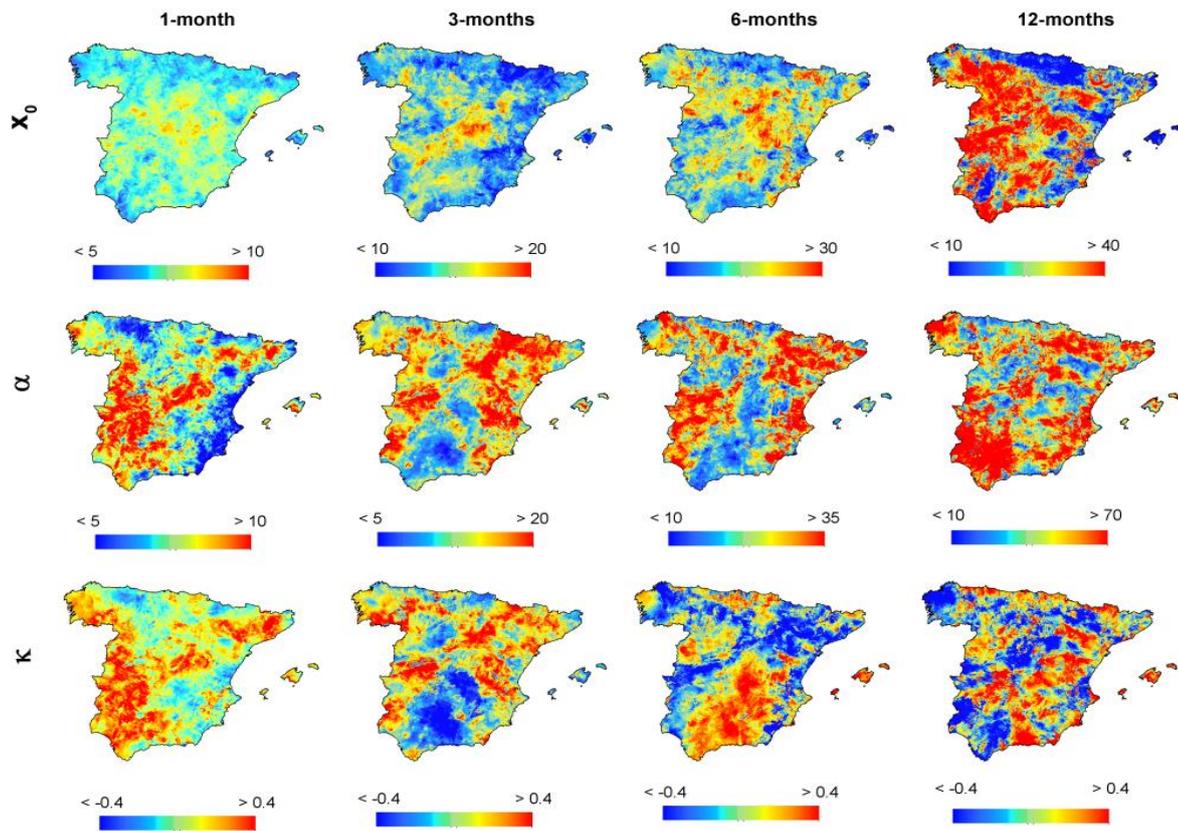
Supplementary Figure 12: L-moment diagrams for the peak-over-threshold series obtained from the 3-month SPI magnitude series



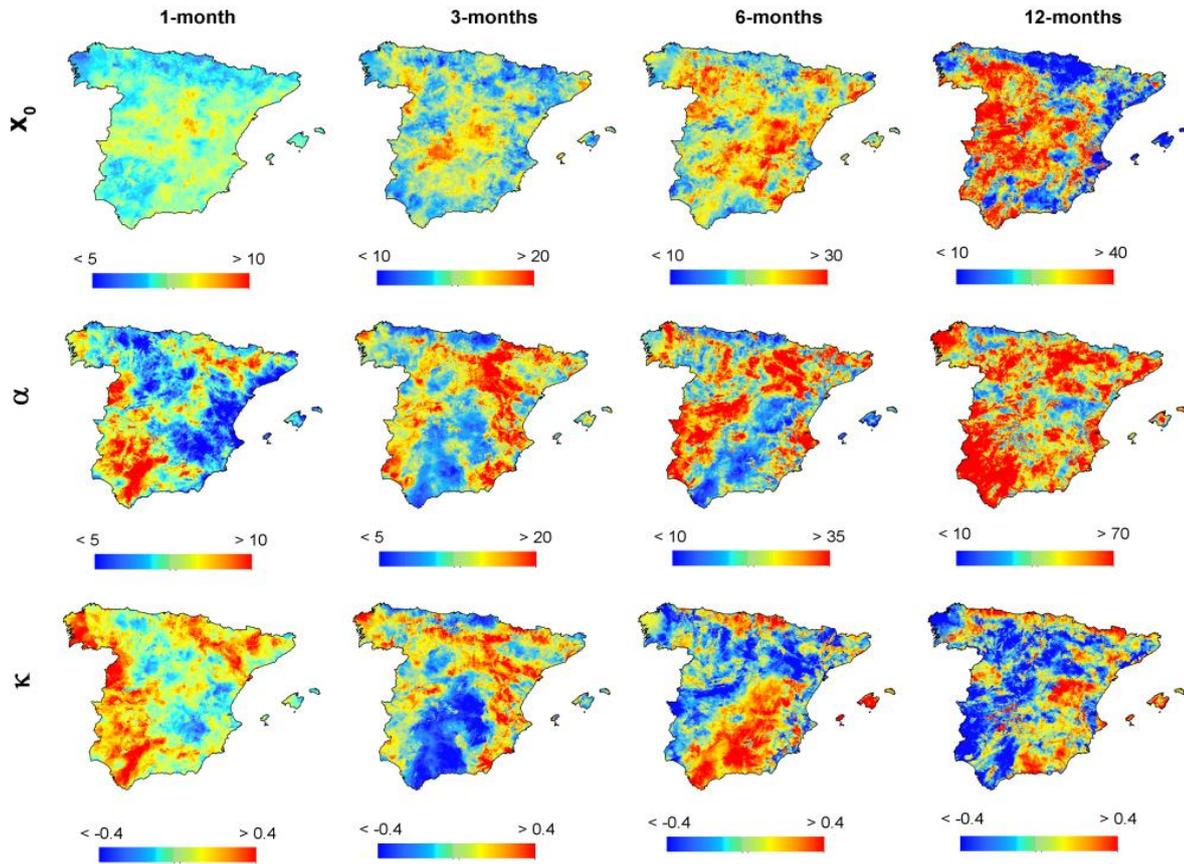
Supplementary Figure 13: L-moment diagrams for the peak-over-threshold series obtained from the 6-month SPI magnitude series



Supplementary Figure 14: L-moment diagrams for the peak-over-threshold series obtained from the 12-month SPI magnitude series

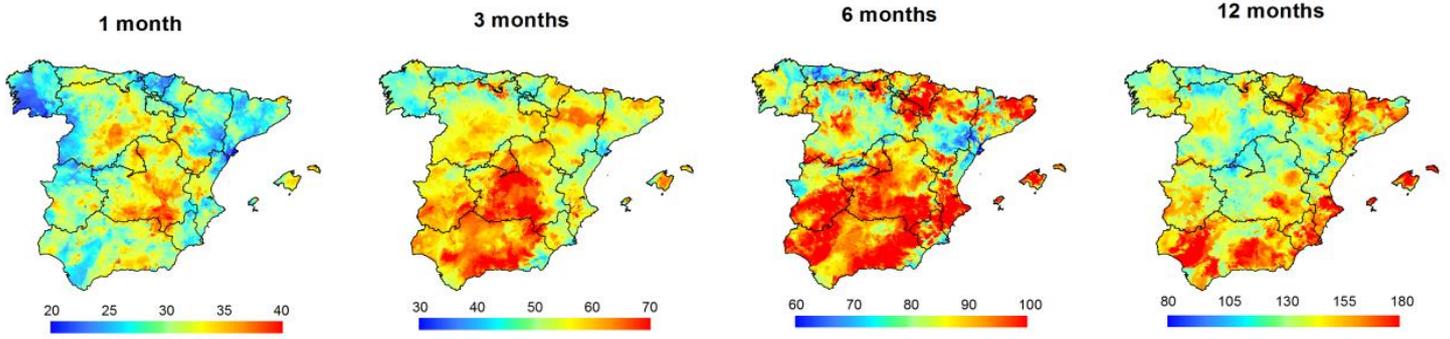


Supplementary Figure 15: Spatial distribution of the parameters of the GP distribution for the SPI magnitude series

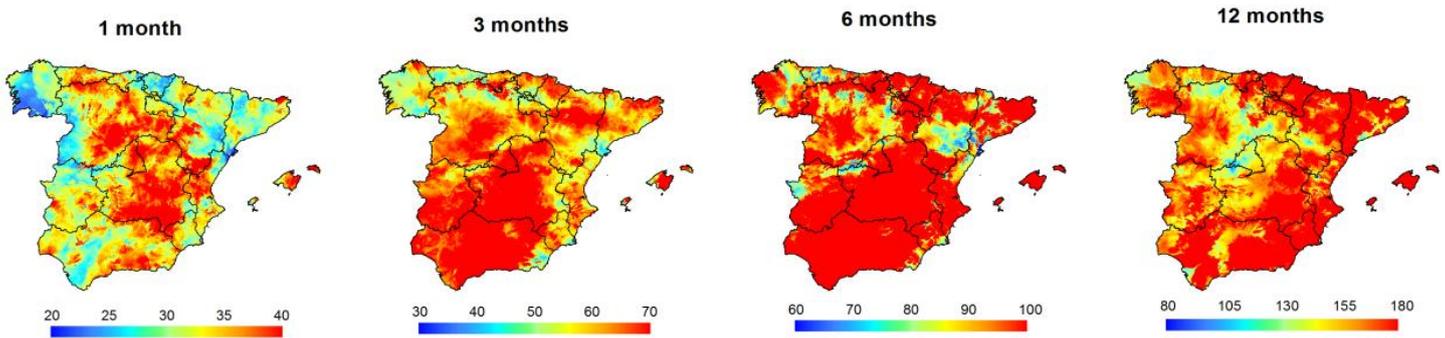


Supplementary Figure 16: Spatial distribution of the parameters of the GP distribution for the SPEI magnitude series

Maximum in 50 years

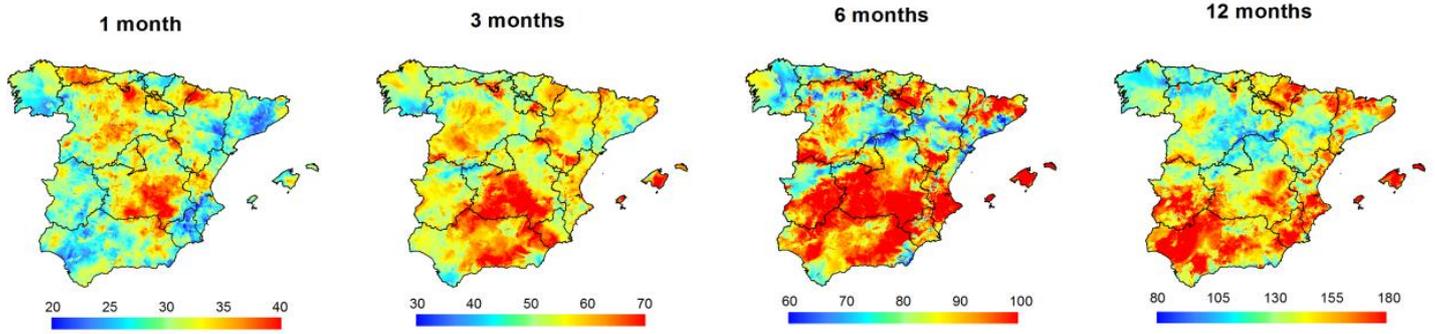


Maximum in 100 years

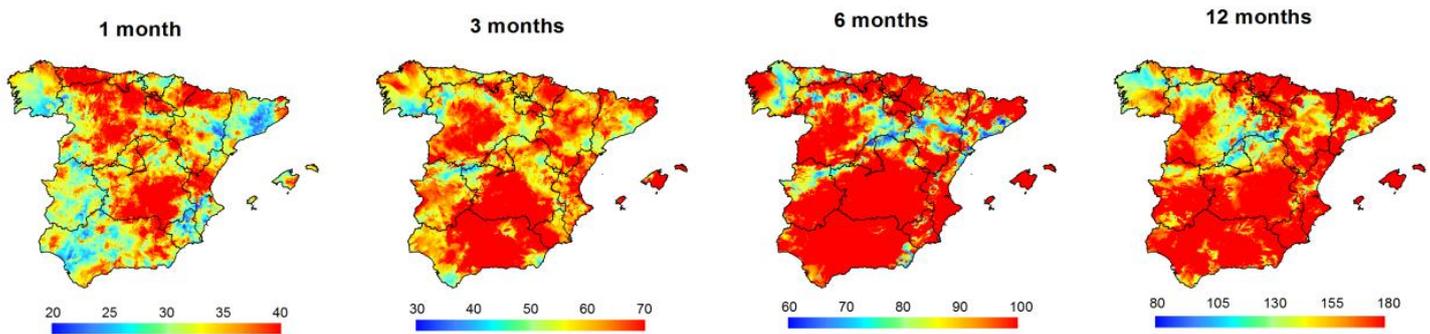


Supplementary Figure 17: Spatial distribution of the maximum drought magnitude (in z-units) from the 1-, 3-, 6- and 12-month SPEI series in a period of 50 and 100 years.

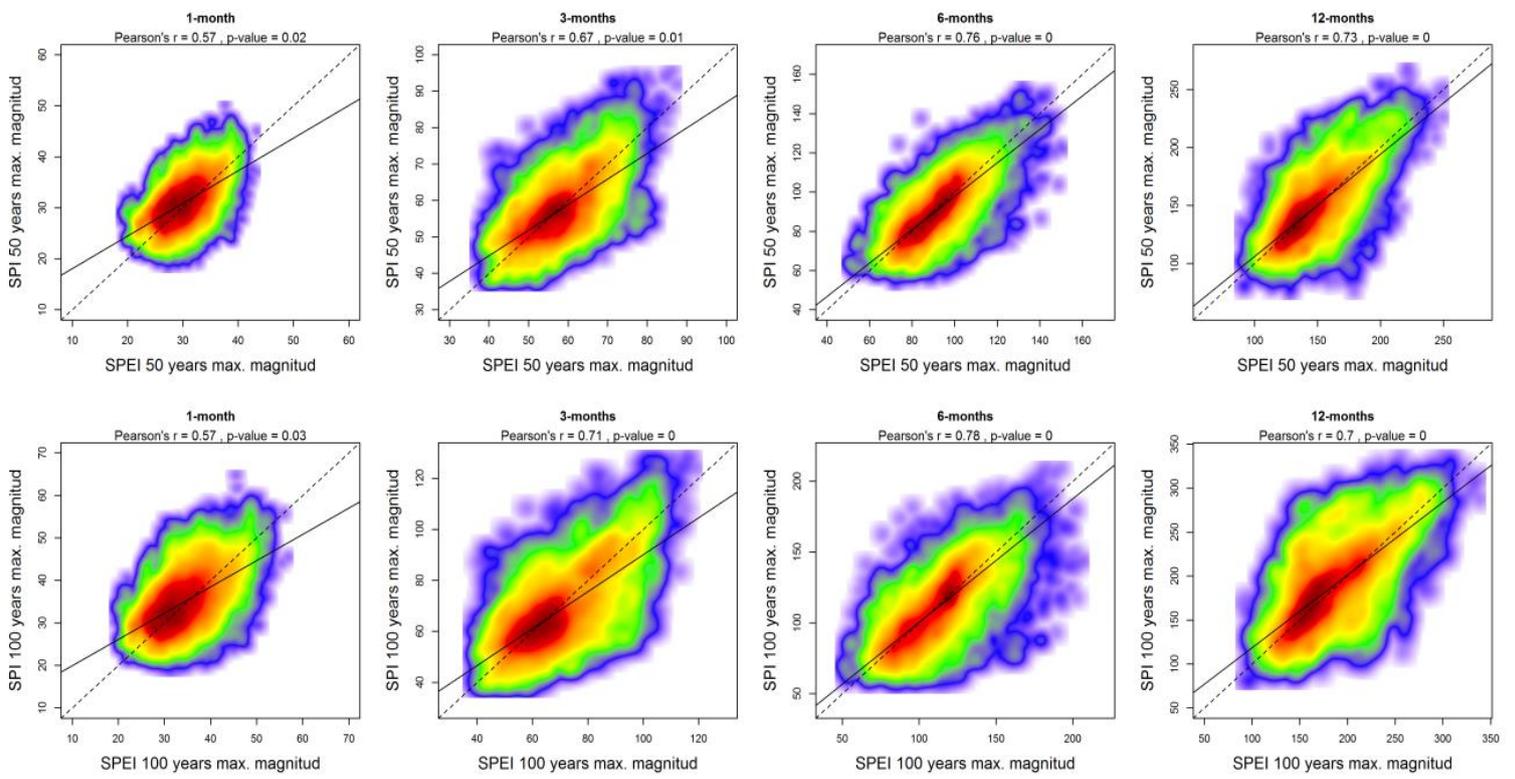
Maximum in 50 years



Maximum in 100 years



Supplementary Figure 18: Spatial distribution of the maximum drought magnitude (in z-units) from the 1-, 3-, 6- and 12-month SPI series in a period of 50 and 100 years.



Supplementary Figure 19: Scatterplots showing the relationship between the maximum magnitude (in z-units) expected in a period of 50 and 100 years considering 1-, 3-, 6- and 12- SPEI and the SPI. Colors represent the density of points, with red denoting the highest density. Given the large sample used, the significance of the Pearson's r coefficients was estimated by means of a Montecarlo approach using 10^3 random samples, with each sample containing 30 cases.