Annex I. Supplementary material for Dragusin et al. - Transfer of environmental signals from surface to the underground at Ascunsă Cave, Romania
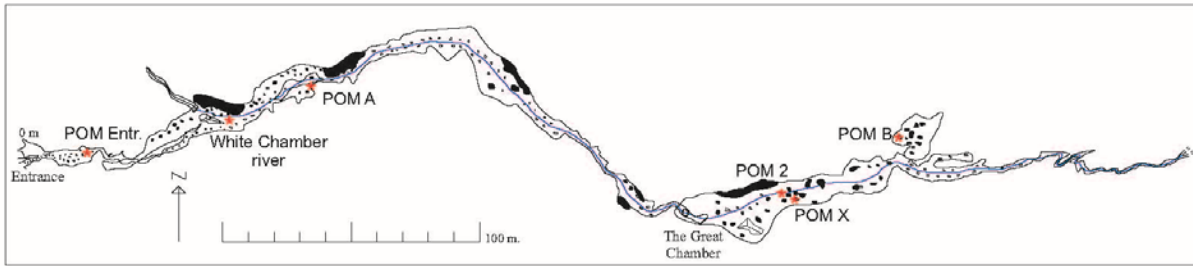

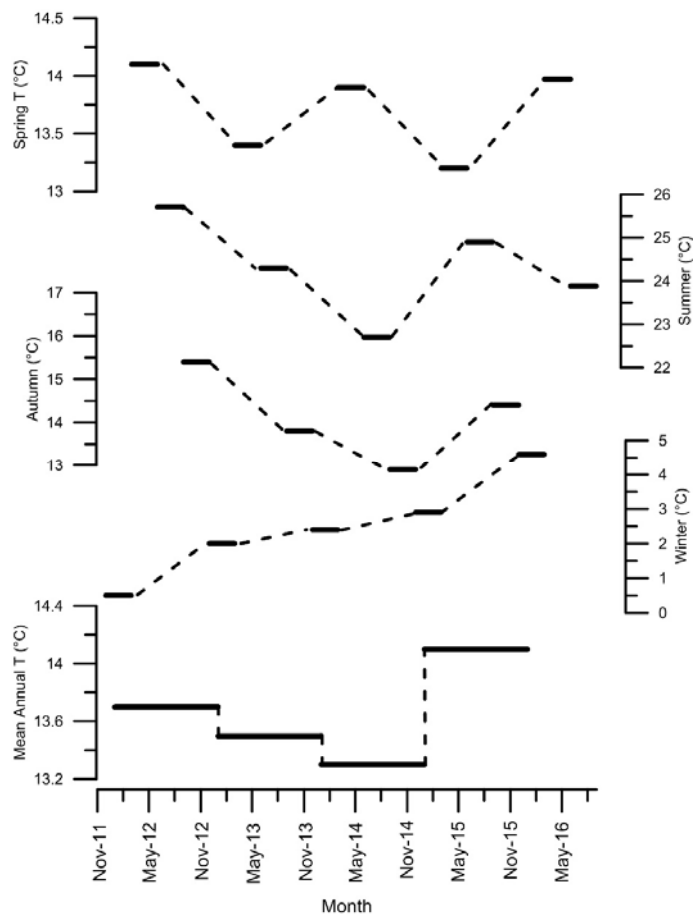**Figure S1. Map of Ascunsă Cave with location of monitoring points.**

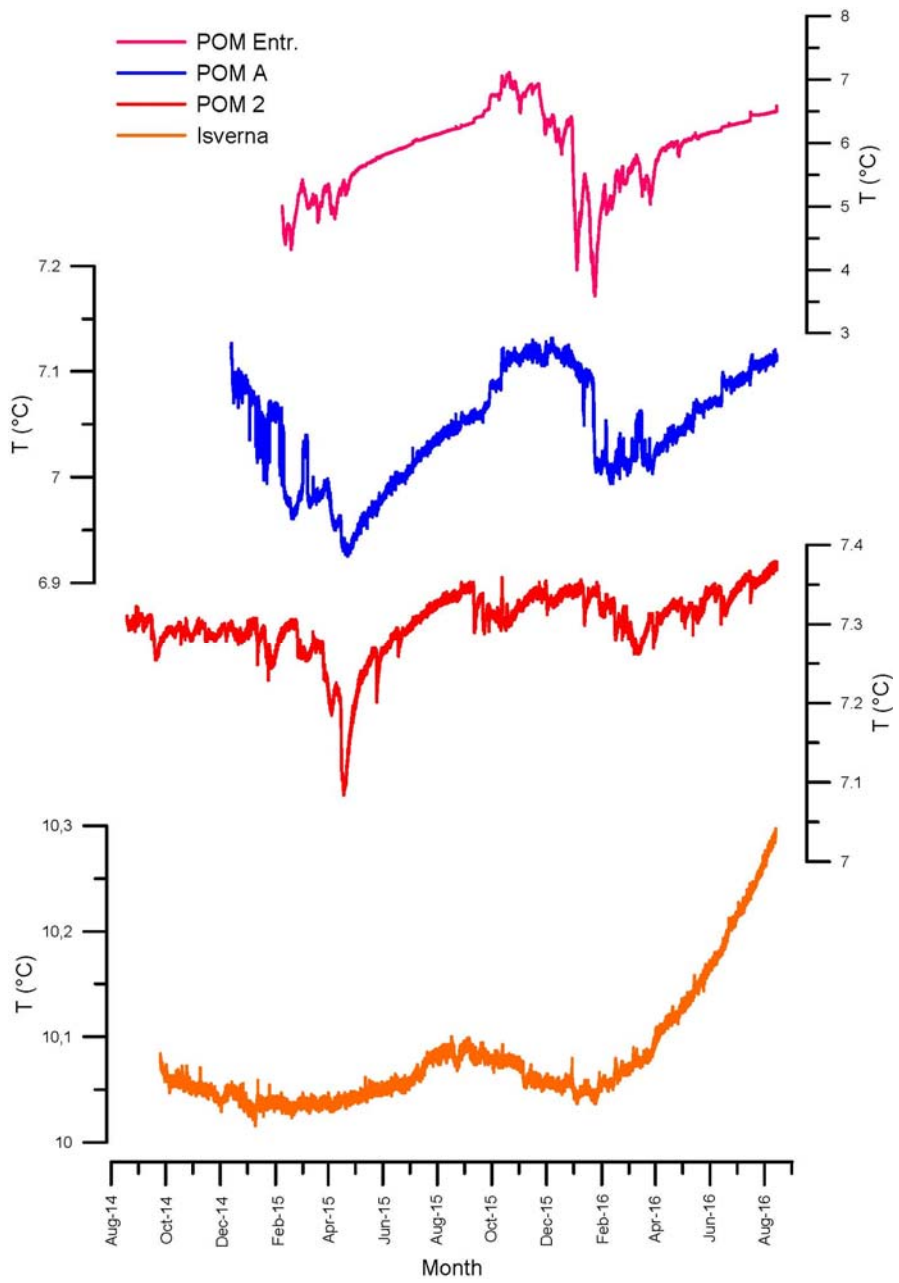**Figure S2. Annual and seasonal temperature averages at Drobeta since 2012.**

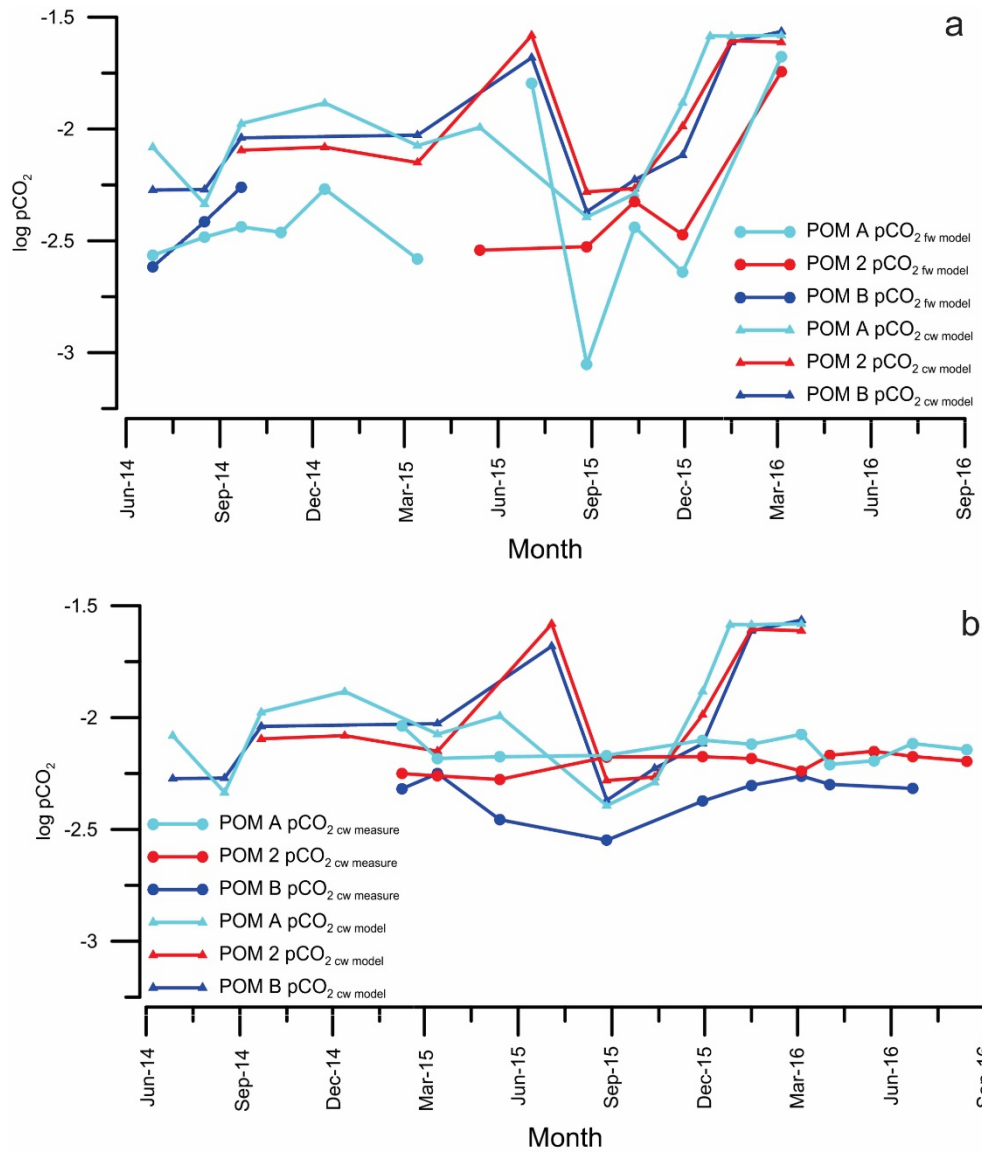**Figure S3. Temperature variability inside Ascunsă and Isverna caves.**

Figure S4. Comparison between (a) $CO_{2fw\ model}$ and $CO_{2cw\ model}$ and (b) $CO_{2cw\ model}$ and $CO_{2cw\ measure}$.
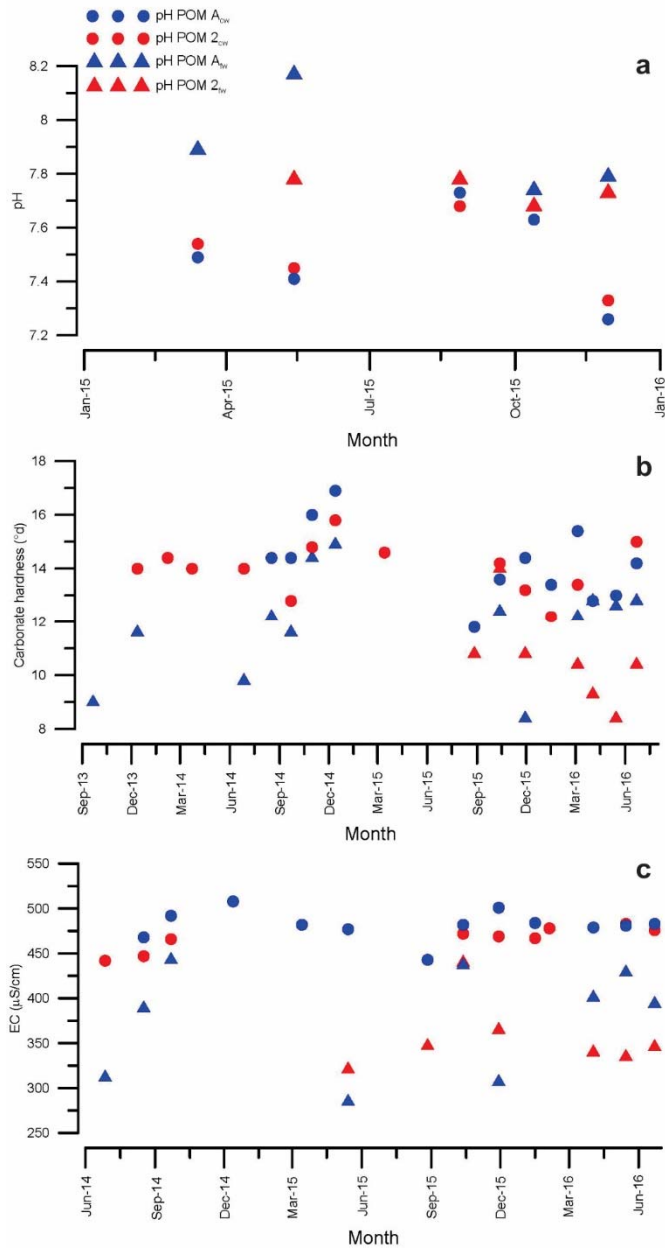
Figure S5. Comparison between pool and confined waters: (a) pH,

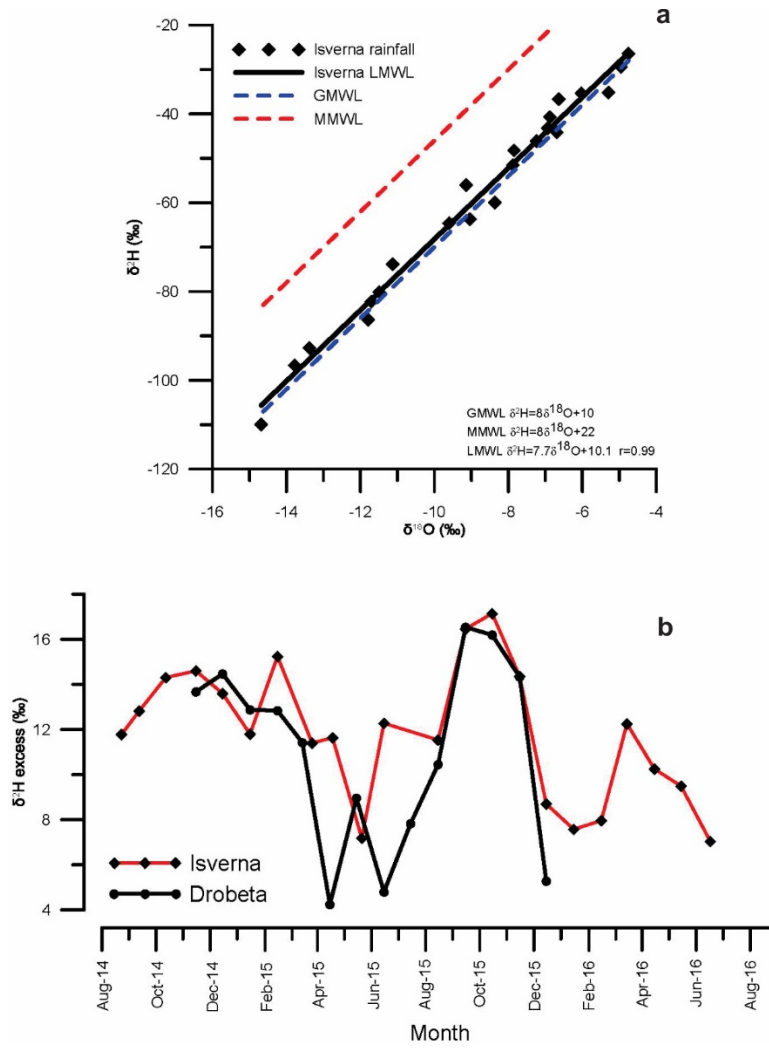**(b) carbonate hardness and (c) electrical conductivity.**

Figure S6. Comparison of (a) the GMWL (Craig, 1961), MMWL (Gat and Carmi, 1970) and LMWL and (b) d-excess values at Isverna and Drobeta.
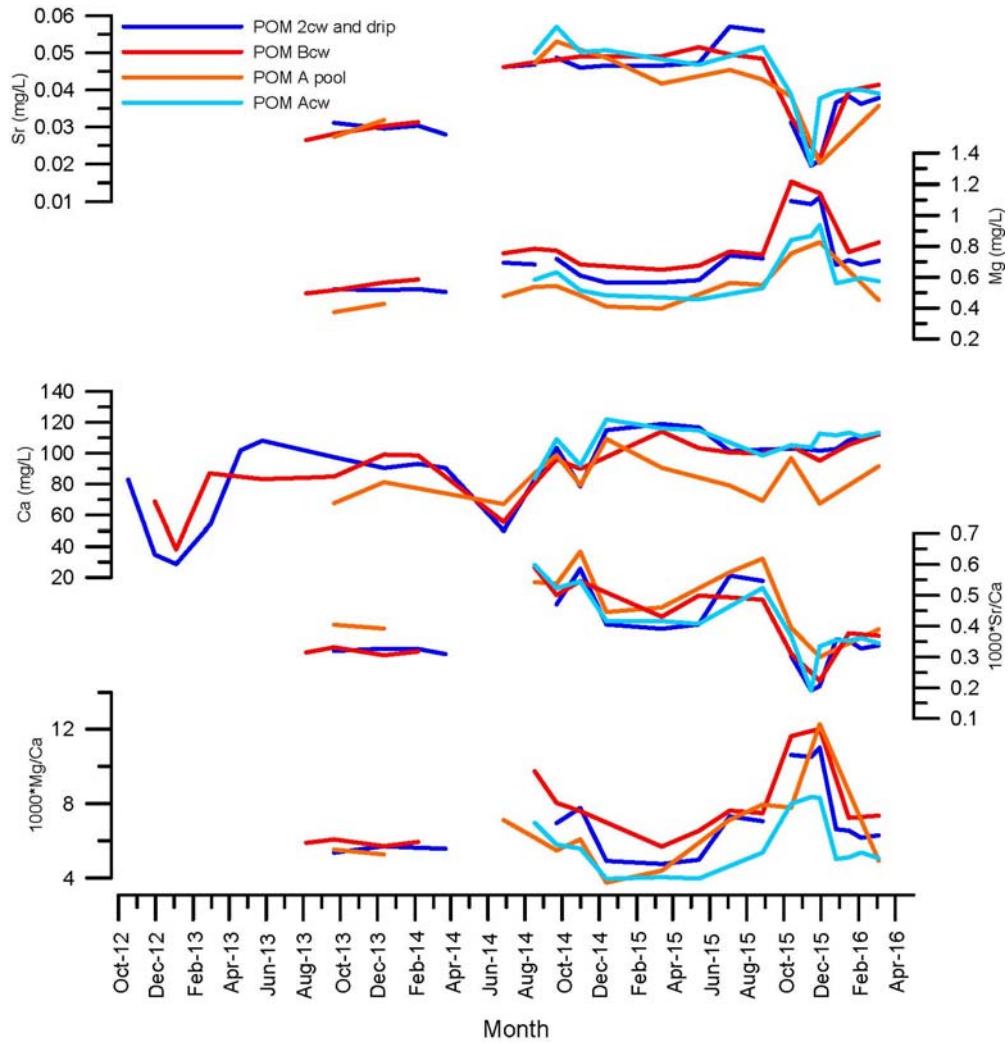
Figure S7. Concentrations of Ca, Mg and Sr in waters from Ascunsă Cave, as well as their ratios, Sr/Ca and Mg/Ca.
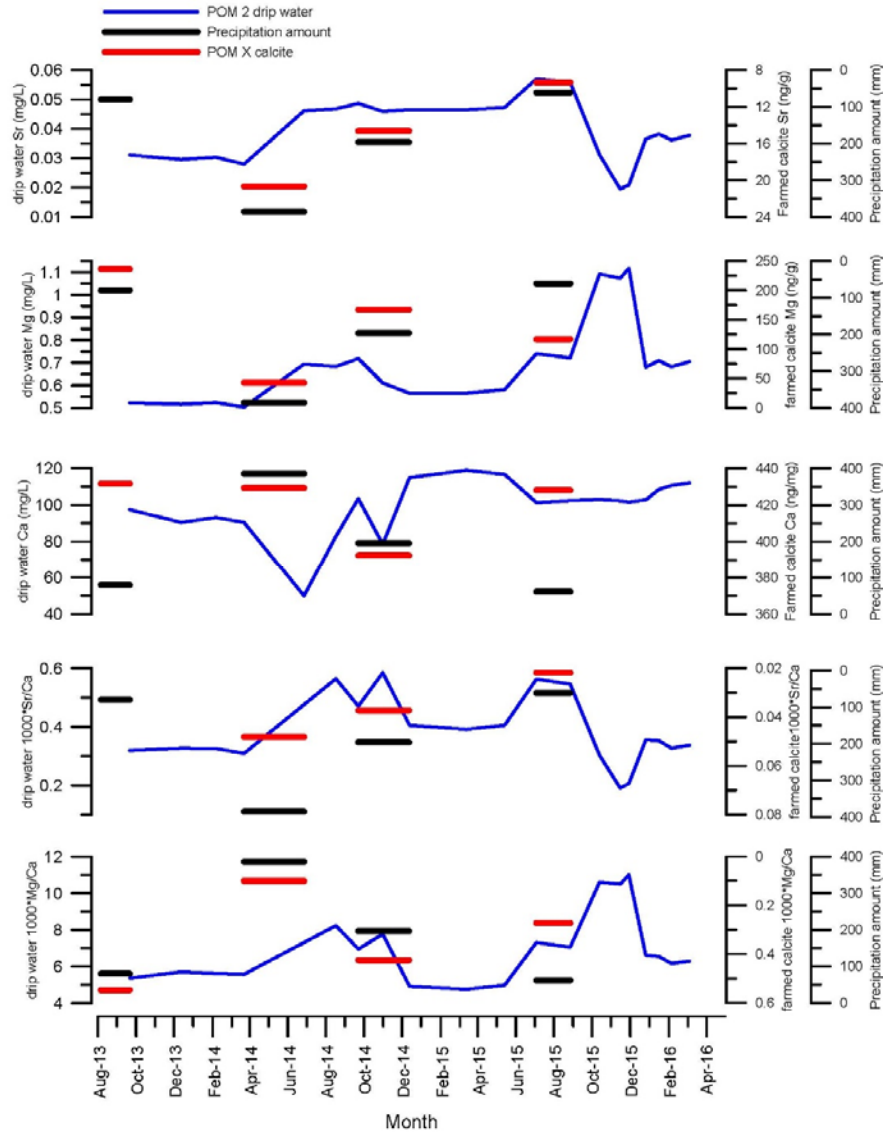
Figure S8. Comparison between Drobeta precipitations, POM X farmed calcite chemistry and POM 2 drip water chemistry.