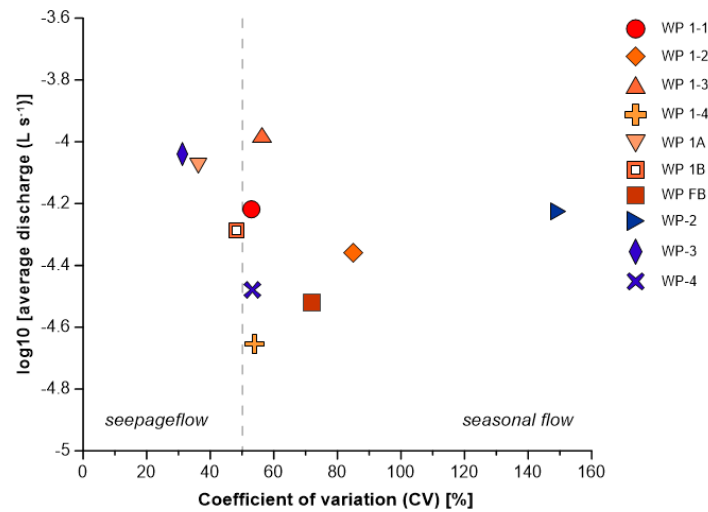


Pacific climate reflected in Waipuna Cave dripwater hydrochemistry

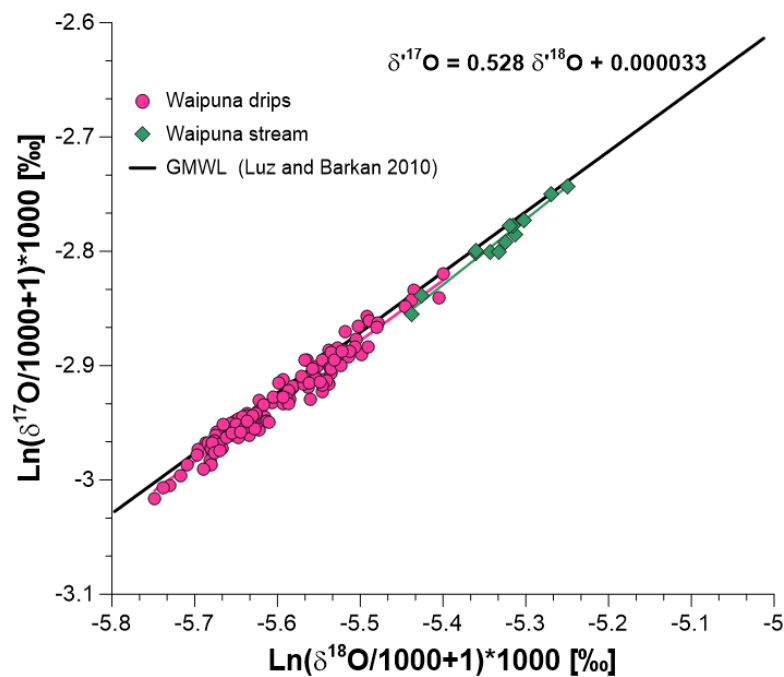
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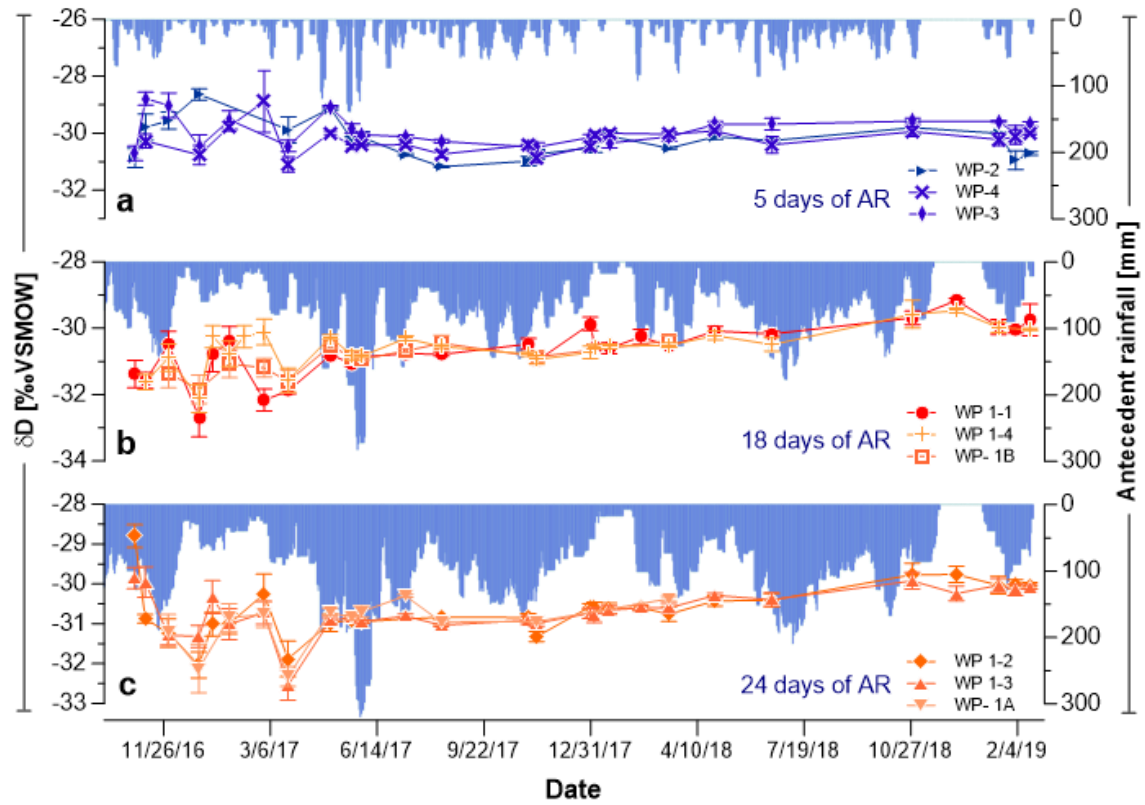
S1. Waipuna Cave drip sites organized by their discharge variability according to the classification of Smart and Friedrich 1987.



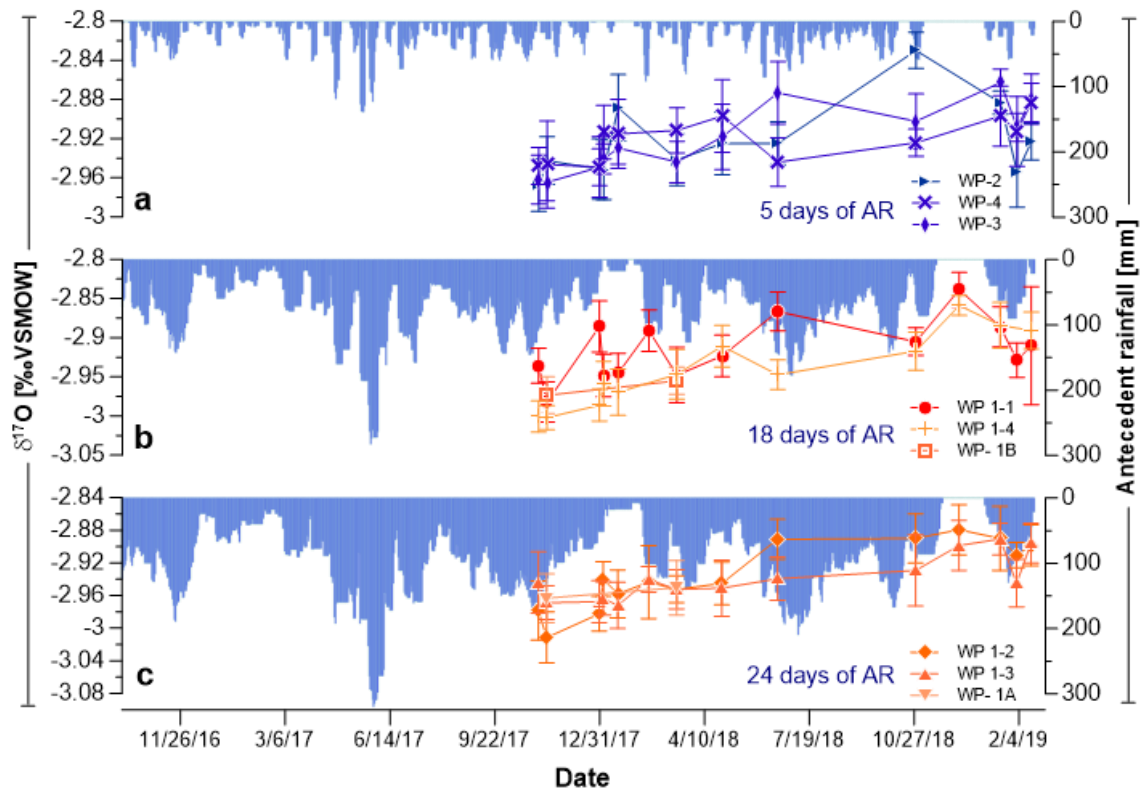
S2. $\delta^{17}\text{O}$ versus $\delta^{18}\text{O}$ values of Waipuna Cave dripwaters (pink circles) and Waipuna stream (green diamonds).



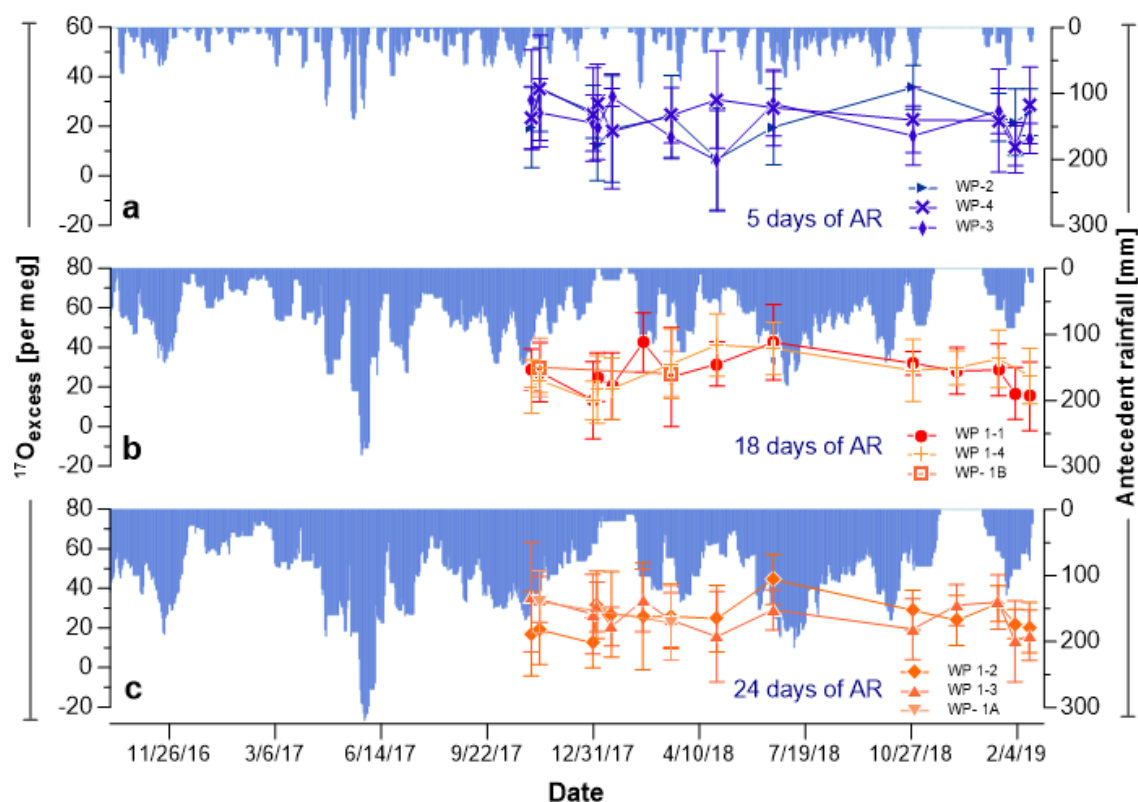
S3. Dripwater δD time series of all drips grouped according to the three main response lags (5, 18, and 24 days) to antecedent rainfall (AR) at Otorohanga Glenbrook station (blue vertical bars).



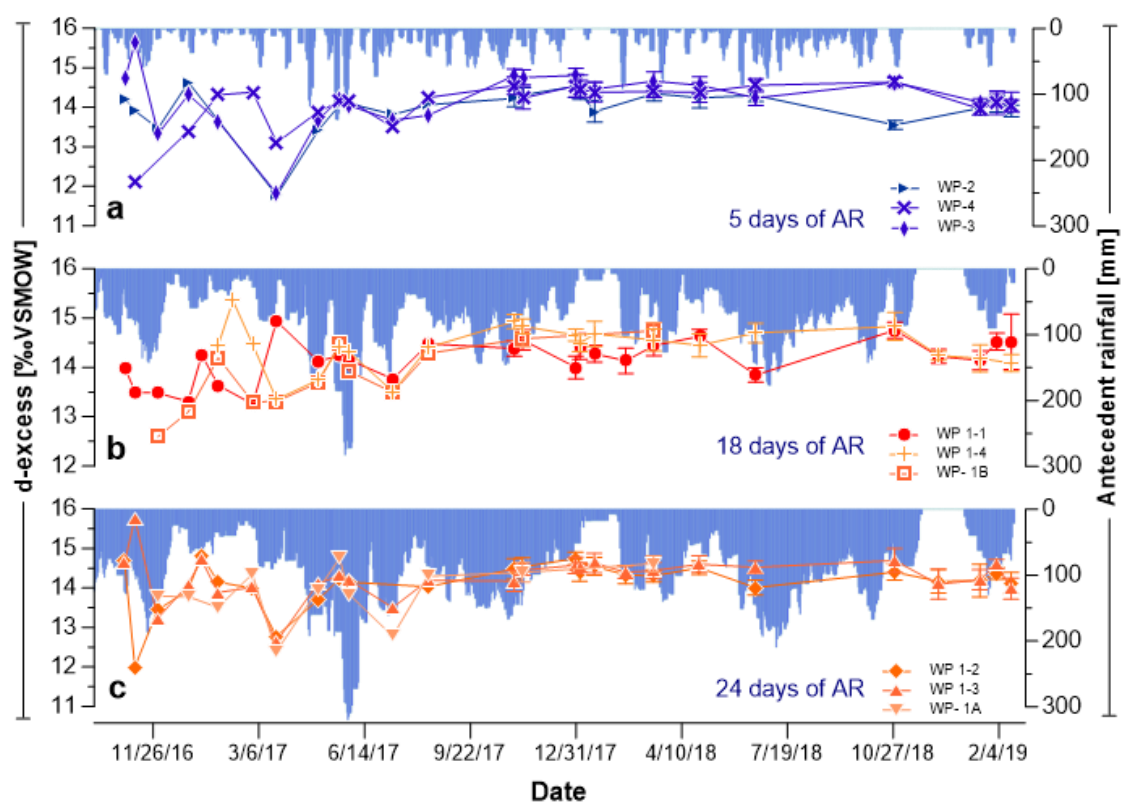
S4. Dripwater $\delta^{17}O$ time series of all drips grouped according to the three main response lags (5, 18, and 24 days) to antecedent rainfall (AR) at Otorohanga Glenbrook station (blue vertical bars).



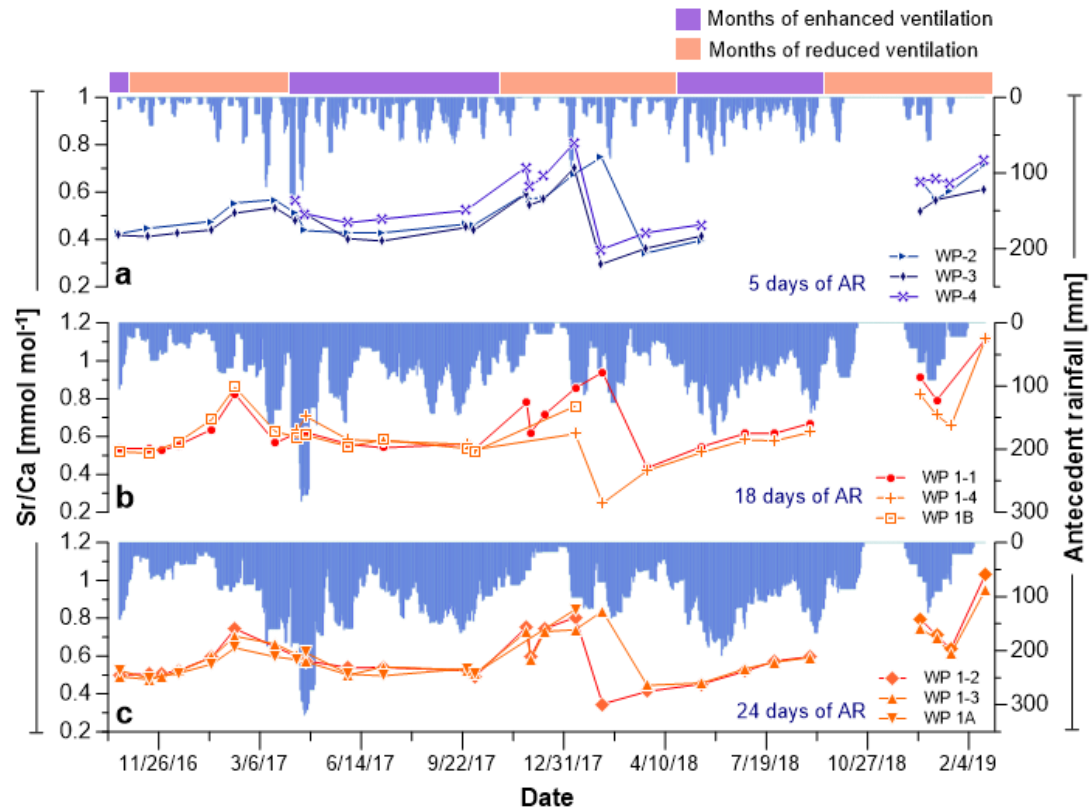
S5. $^{17}\text{O}_{\text{excess}}$ time series of all drips grouped according to the three main response lags (5, 18, and 24 days) to antecedent rainfall (AR) at Otorohanga Glenbrook station (blue vertical bars).



S6. Dripwater d-excess of all drips grouped according to the three main response lags (5, 18, and 24 days) to antecedent rainfall (AR) at Otorohanga Glenbrook station (blue vertical bars).



S7. Dripwater Sr/Ca ratios of all drips grouped according to the three main response lags (5, 18, and 24 days) to antecedent rainfall (AR) at Otorohanga Glenbrook station (blue vertical bars).



S8. Mg/Ca and Sr/Ca ratios sorted by the period of reduced ventilation November-March (orange circles) and enhanced ventilation April-October (blue diamonds).

