



### Estimated $^{17}\text{O}$ -excess vs $\delta^{18}\text{O}$

- Leaf water: Farquhar and Gan (2003) model
- - Leaf water: Farquhar and Gan (2003) model + mixing
- Phytoliths: Farquhar and Gan (2003) model +  $\lambda_{\text{phyto-LW}} = 0.524$
- Phytoliths: Farquhar and Gan (2003) model +  $\lambda_{\text{phyto-LW}} = 0.522$
- Phytoliths: Farquhar and Gan (2003) model +  $\lambda_{\text{phyto-LW}}$  decreasing from 0.522 to 0.520
- - Phytoliths: Farquhar and Gan (2003) model + mixing +  $\lambda_{\text{phyto-LW}}$  decreasing from 0.522 to 0.520