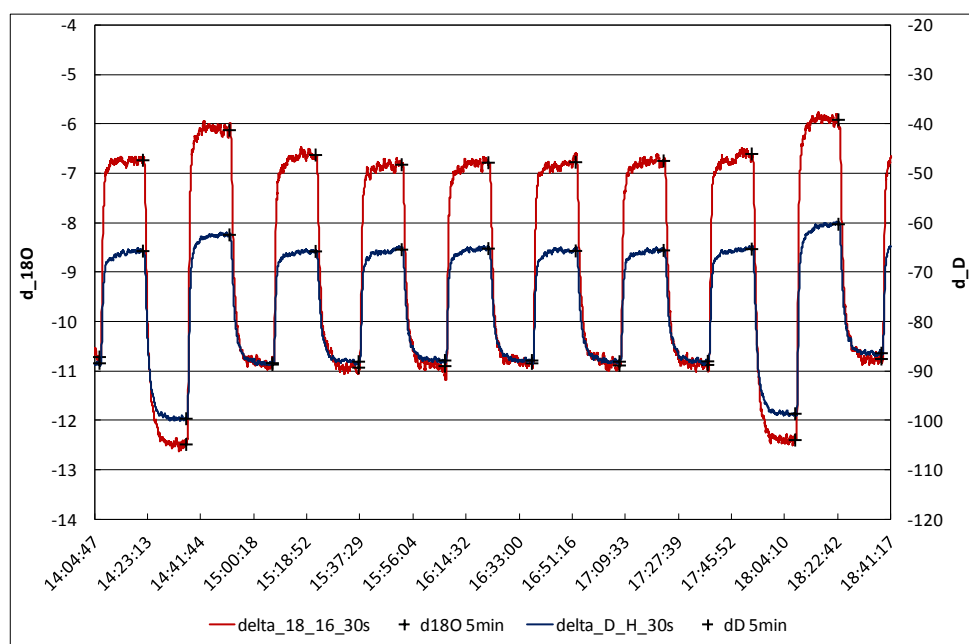
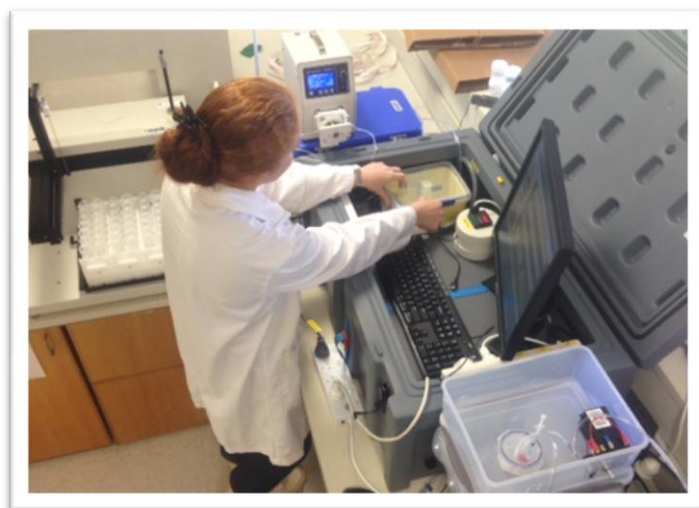


Analytical service: $\delta^{18}\text{O}$ and δD in water by DS-CRDS

- $\delta^{18}\text{O}$ and δD in liquid water by Diffusion Sampling – Cavity Ring-Down Spectrometry (DS-CRDS)
- Precision: $\delta^{18}\text{O}$ +/- 0.1‰, δD +/- 0.5‰ (+/- 1 σ , 5 min integration time, av. of 6 determinations)
- Scaled to V-SMOW via analysis of IAEA reference waters
- High TSS and TDS samples analysed without pre-treatment – freshwater, bore water, sea water
- Minimum sample volume: 20 mL
- Instrument is capable of field-deployment for continuous, real-time analysis of water



Raw $\delta^{18}\text{O}$ and δD in water vapour derived from liquid water by diffusion sampling of alternating seawater and freshwater samples. Integrated δ -values are indicated by a cross

Literature: *Rapid Comm. Mass Spec.* (2011) 25, 3706-12; *Envir. Chem. Lett.* (2012) 10, 301-7;
Hydrol. Process. (2012) 26, 3630-34

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