TITLE: Data presented in the paper “Turbulence-mediated facilitation of resource uptake in patchy stream macrophytes” (Limnology and Oceanography 2018)

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**Figure 1 Vegetation structure.csv**
Description of biomass and canopy architecture for the transplanted patches of Callitriche and Groenlandia.

- **Distance**: Distance (in m) within the patch from its leading edge
- **LowerCanopyHeight**: Lower height of the overhanging plant canopy (in m), if applicable
- **UpperCanopyHeight**: Upper height of the plant canopy (in m)
- **Biomass_gDWm-2**: Mean vegetation biomass (g DW m$^{-2}$) used in the transplanted patches of *Callitriche* and *Groenlandia*
- **Species**: Species considered in the study

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**Figure 2 3 5 Uptake vs hydrodynamics.csv**
Dataset including NH$_4^+$ uptake rates ($\mu$mol g$^{-1}$ (DM) h$^{-1}$) for individuals of *Callitriche* and *Groenlandia* per location (averaged over the two replicate runs) and measurements of hydrodynamic parameters.

- **Species**: Species used in the incubation experiment
- **UptakeRate**: NH$_4^+$ Uptake rate ($\mu$mol g$^{-1}$ (DM) h$^{-1}$)
- **U**: Depth-averaged flow velocity (m s$^{-1}$)
- **Q**: Volumetric flow rate within the canopy (m$^3$ s$^{-1}$)
- **TotalFlowEnergy**: Total Flow Kinetic Energy within the canopy (m$^2$ s$^{-2}$)
- **CanopyHeight**: Height of the vegetation canopy (cm) in the measurement location
- **CanopyTKE**: Turbulent Kinetic Energy within the canopy (m$^2$ s$^{-2}$)
- **ReynoldsStress**: Reynolds stress (Pa) at the top of the canopy
- **Configuration**: Spatial configuration of the two macrophyte patches in the flume

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**Figure 4 Uptake rates.csv**
Dataset of NH$_4^+$ uptake rates ($\mu$mol g$^{-1}$ (DM) h$^{-1}$) for individuals of *Callitriche* and *Groenlandia* in the replicate incubation experiments for each of the four vegetation spatial configurations.

- **SampleID**: Individual identification code for the plant sample
- **UptakeRate**: NH$_4^+$ uptake rate ($\mu$mol g$^{-1}$ (DM) h$^{-1}$)
- **Species**: Species used in the incubation experiment
- **Configuration**: Spatial configuration of the two macrophyte patches in the flume
- **Replicate**: Replicate incubation for each configuration
- **StreamwisePosition**: Plant sample position within the patch (streamwise direction)
- **SpanwisePosition**: Plant sample position within the patch (spanwise direction)