

## Data aquisition and post-processing

### Raw data processing

- despiking
- lag-time correction
- detrending
- coordinate rotation
- time averaging
- calculation of covariances
- WPL correction
- SND correction
- unit conversion → flux
- quality flagging
- flux gap-filling

### Download post-processed data

## Turbulence analysis

### Turbulence diagnostics

- stability parameter
- TKE, friction velocity, ...

### Quadrant analysis

- coherent structures
- organization ratio

### Spectra

- averaged FFT spectra
- MRD spectra / wavelets

### Anisotropy analysis

- Reynolds stress tensor
- barycentric map

### Flux footprint

- 2D flux footprint

## Turbulence modelling and energy balance

### Turbulence modelling / parameterizations

- bulk closures
- eddy-diffusivity closures
- flux-variance relations
- flux-profile relations

### Surface energy balance

- radiative fluxes
- residual and closure ratio

### Ecohydrology

- Bowen ratio
- evaporative fraction
- flux partitioning

## Meteorological and environmental contextualization

- wind speed profiles, gradients, Richardson number, clear-sky index, ...