

## Workflow

*Input data*  
Groundwater heads  
 $P$  &  $ET_{ref}$

1.

**Series validation**  
Error removal  
Consistency tests  
Far outlier removal  
TSM outlier removal  
**Data categorisation**

- Normal
- Atypical
- Discarded
- Deep

*Cleaned measurement series*

2.

**Series simulation**  
Model fitting  
Series simulation

*Homogeneous simulated series*

3.

**Conversion to index**

*SGI data*

## Method evaluation

**Performance of validation method**

- Performance
- Parameter sensitivity

**Performance of head simulations**

- Performance
- Calibration period effects

**SGI comparison to measurements**