Modelling in Timoleague

Model Development

- Catchment models are developed using high frequency ACP data, which far exceeds typical data available for modelling (Q/SS/N/P)

- This allows us to create (and assess) detailed simulations of the water and nutrient cycles

- Models in Timoleague can be used to up-scale models to the wider areas that have similar conditions (e.g., the Bandon catchment)

Model Applications

- Scenarios can then be considered for how nutrient exports at the larger catchment scale will vary under different management and/or climate conditions.

- This can help us to better understand nutrient dynamics across different temporal and spatial scales, and to better target measures to reduce exports.

Example Model Outputs for Total Phosphorus

Model Calibration | Model Validation

Observed TP load [kg]
Simulated TP load [kg/day]

Bandon Catchment

Timoleague