

SWAPP

SWAPP – SALT WATER APP

Smart combination of a sensor to measure salinity, a smart phone App, a database and an open data website



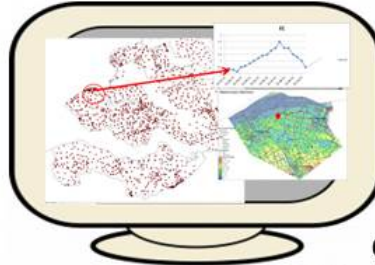
Sensor

Sensor made of two resistors and a condenser. The sensor measures the difference of resistivity between the two poles. This gives an indication of the electrical conductivity of the water, which is an indirect measure of the salt content of the water.



App

Smart Phone APP that guides the user through a process to calibrate the sensor, measure the salinity of the water and send a report



Open data website

Interactive website with GIS functions to visualize and analyze data. Further development will include running simple calculations, models, and forecasting systems to enable operational water management.



Database

Database containing the measurements taken by all the users of the App. This database will filter the measurement based on quality criteria.



More information about:

[Conversion EC to Chloride](#)

Relevant research / projects:

[GO-FRESH](#)

SWAPP in the media:

[website Deltares \(Dutch\)](#) or [website Deltares \(English\)](#)

[Climate Delta Conference](#)

[Climate KIC](#)