Kiel Outdoor Benthocosms KOB

to simulate future UW climate and to study the ecological consequences

mostly autonomous energy supply by wind and sun

automated control of (delta-) temperature, pH, pO2, pCO2, flow-through, waves,...

experimental units of 2000 - 4000 L

wave generator

remote video control

thermally insulated containers

wave and current control

outlets for water samples

Bypass for pH, O2, salinity, and temperature sensors

CO2 neutral cooling with deep fjord water

Reactors for CO2 und O2 treatments
Tanks and container on platform
Autonomous electronic control unit
Tank and coolers
Tank with hood to control atmospheric composition
Tank with tilting wave generator
Tank with 2 sub-units, heat exchanger and wave generators