

**Presentation of the THAUMEX measurement campaign. Modelling of
a coastal lagoon with FLake**

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The measurement campaign THAUMEX took place in southern France. Its purpose was to acquire observations of water temperature, surface fluxes and vertical profiles of air temperature, wind and humidity, to model a coastal lagoon during episodes of sea breezes, and evaluate at the same time the evolution of the water stratification and the atmospheric boundary layer structure above.