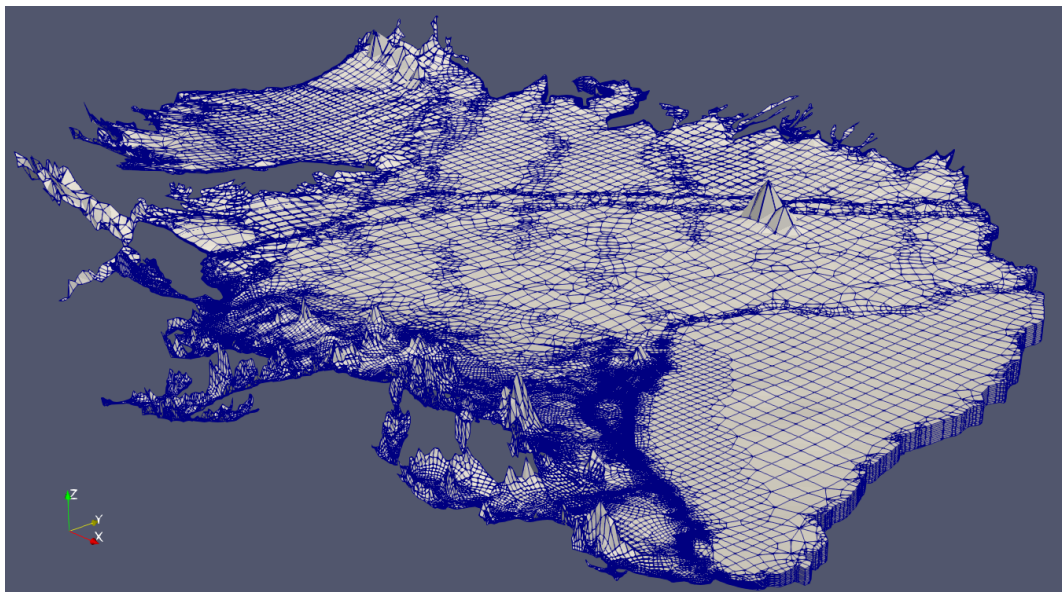


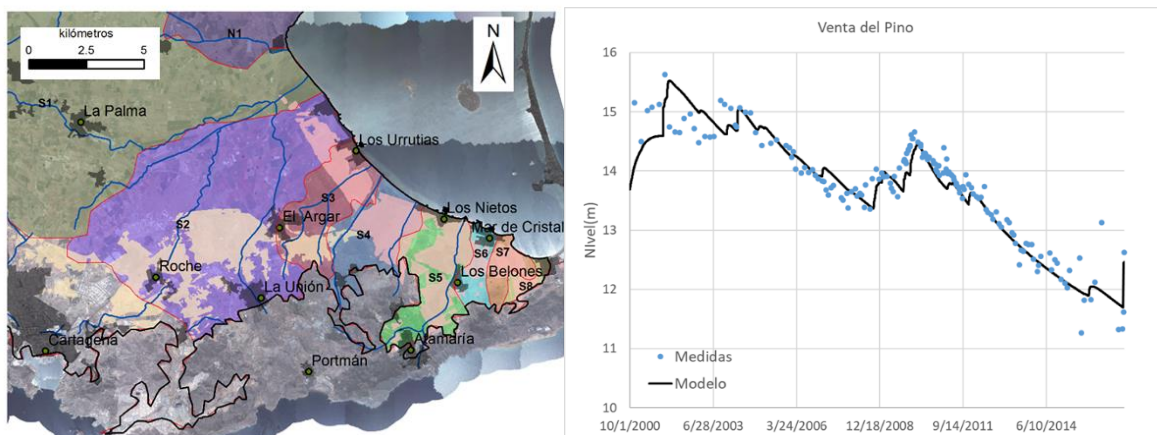
Calibration of a regional scale aquifer in Cartagena (Spain).

Client: FutureWater; Arco Sur

Keywords: Pumping/injection tests, model calibration, contamination



3D mesh. Vertical exaggeration factor x10.



Left: capture zones of the coastal lagoon. Right: calculated vs measured heads at one borehole.

Summary: A 3D finite element heterogeneous variable density model for the management of the Campo de Cartagena (Spain) watershed has been calibrated using head and concentration data at available boreholes. The model is heavily constrained by pumping and draining facilities parallel to the lagoon. This model is used to design remediation schemes to alleviate the contamination problem of the coastal lagoon Mar Menor. The project was carried out together with FutureWater.