

The NAURU project, financed by Milano Municipality within Expo 2015 actions, intends to focus on water supply improvement.



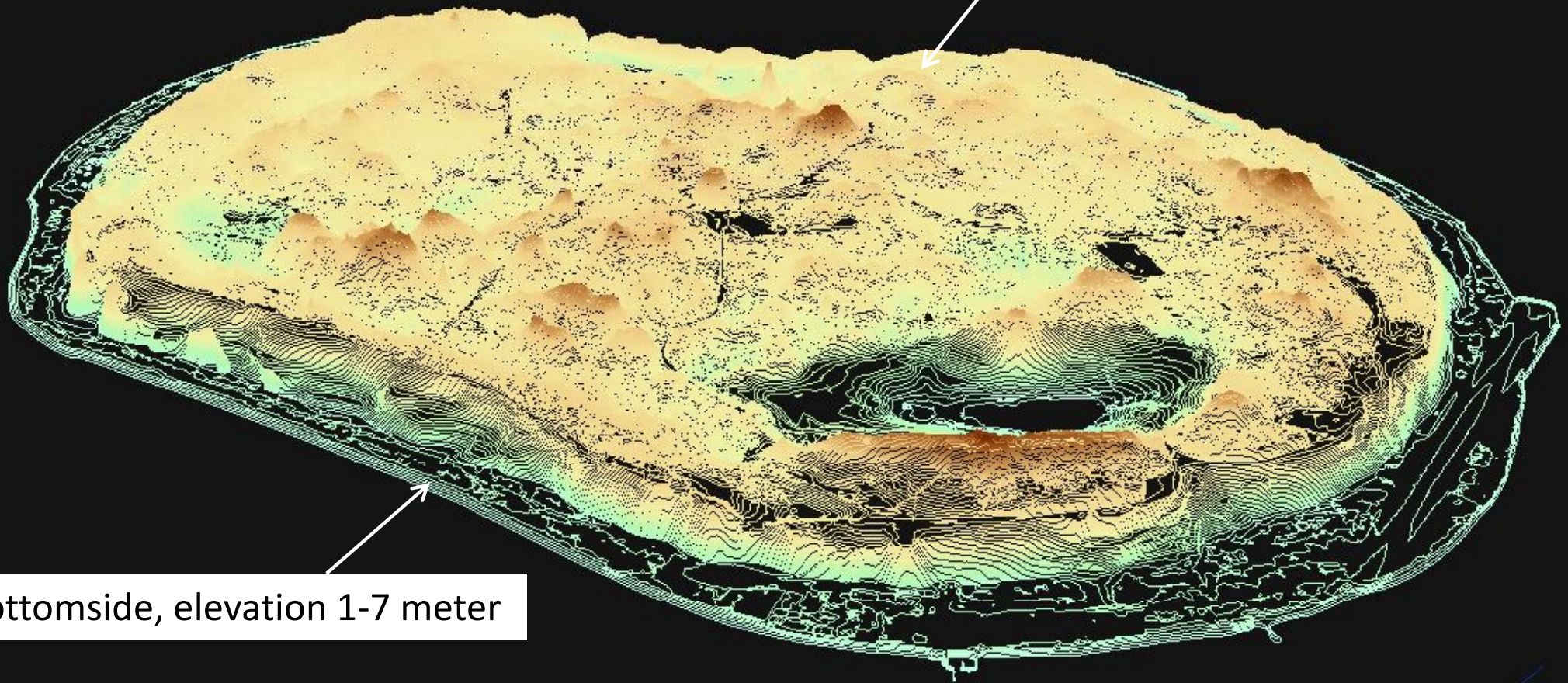
Nauru
Island



GEOMORPHOLOGY

Topside, elevation 20-71 meter

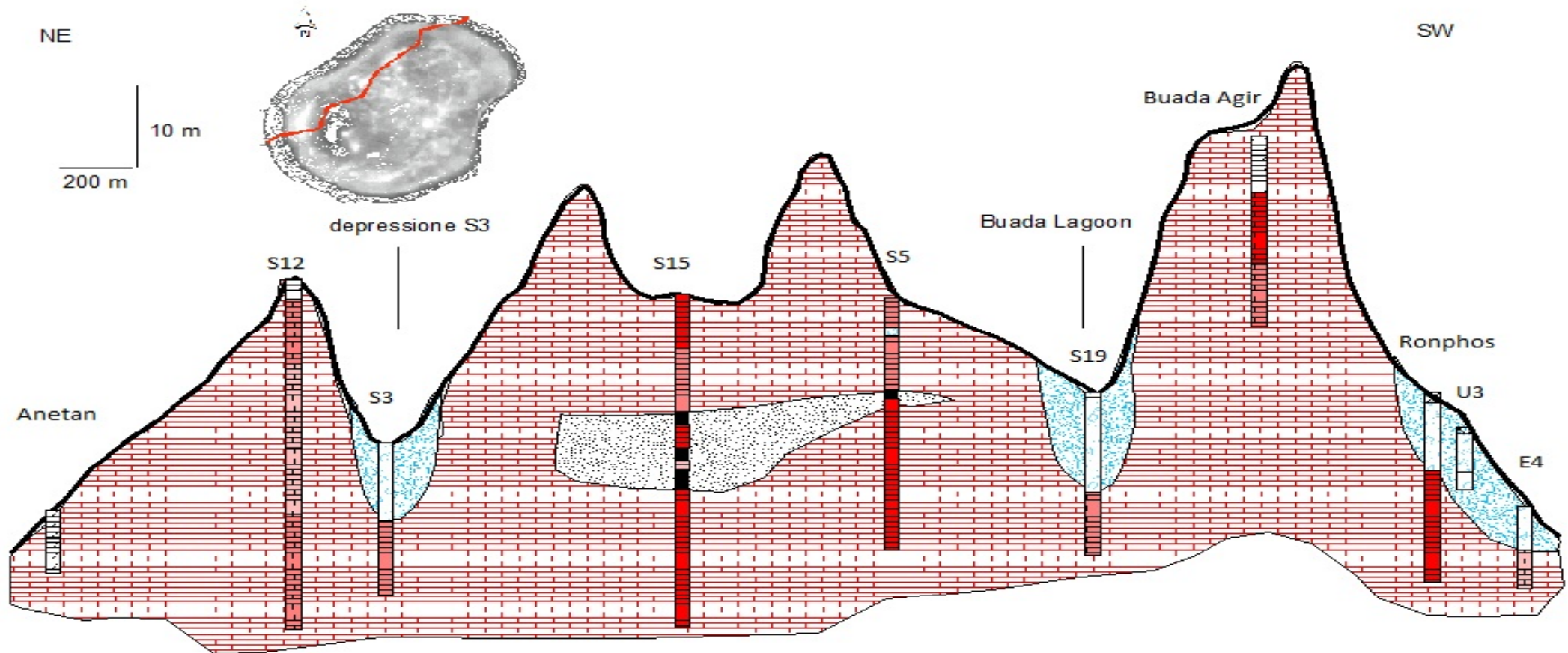
Bottomside, elevation 1-7 meter



GEOLOGY

Topside: Dolomitic and limestone rocks (Plio-Pleistocene)

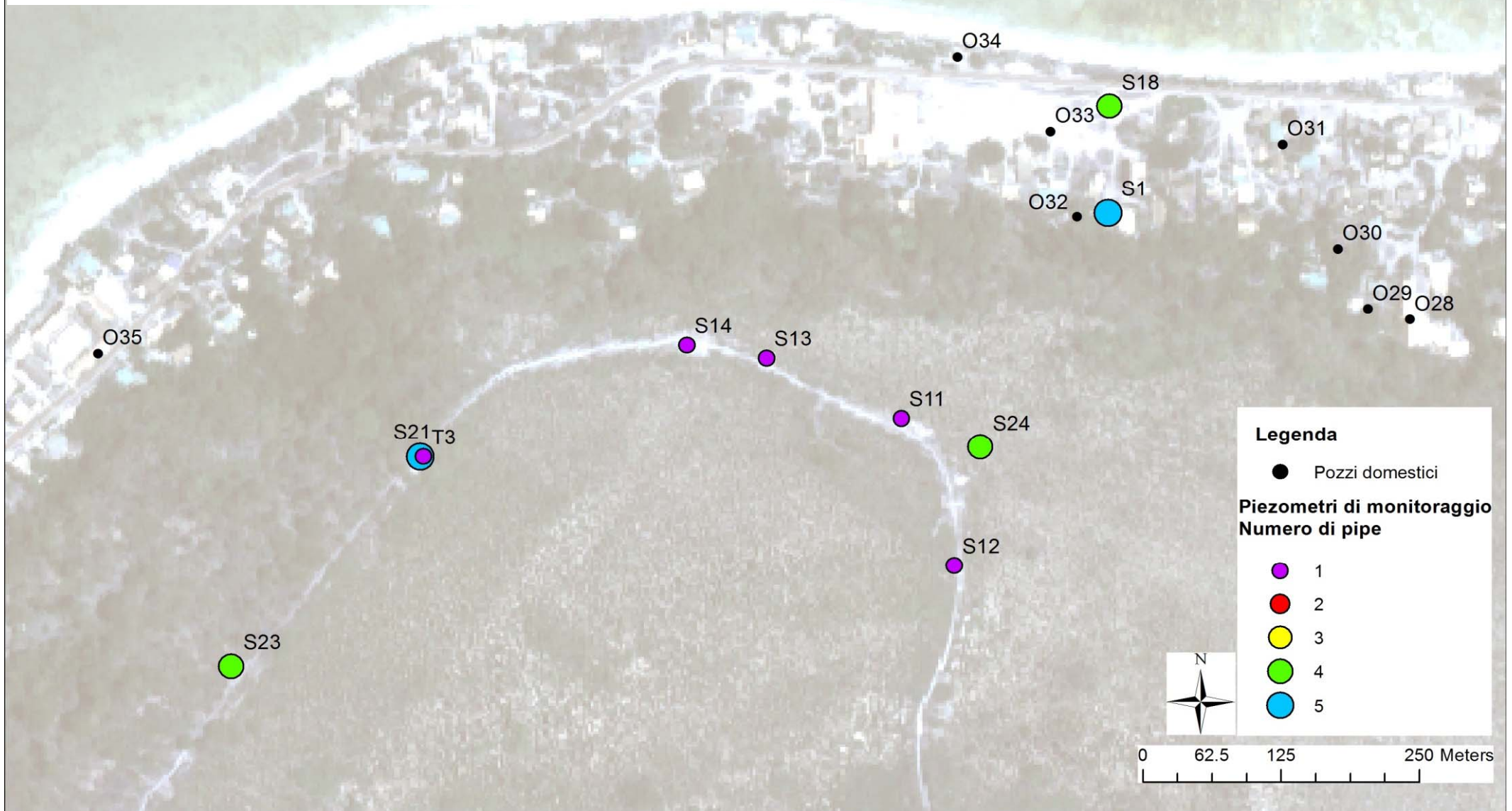
Bottomside: sand, gravel sediments (quaternary)





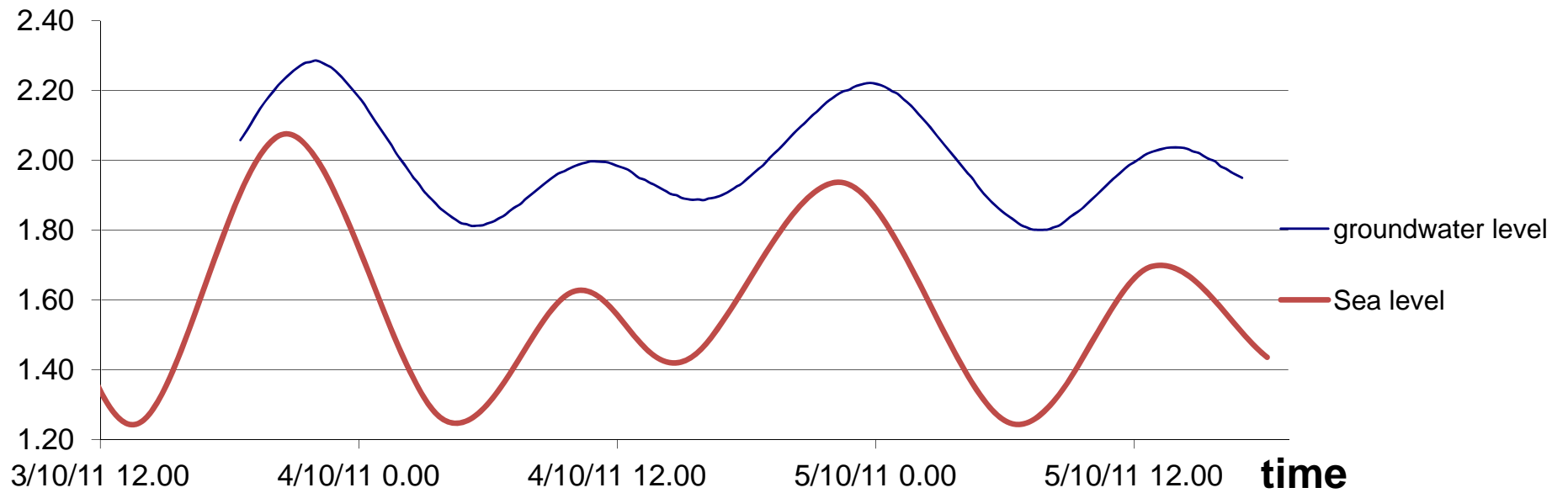
HYDROGEOLOGY

44 monitoring wells with multipipe

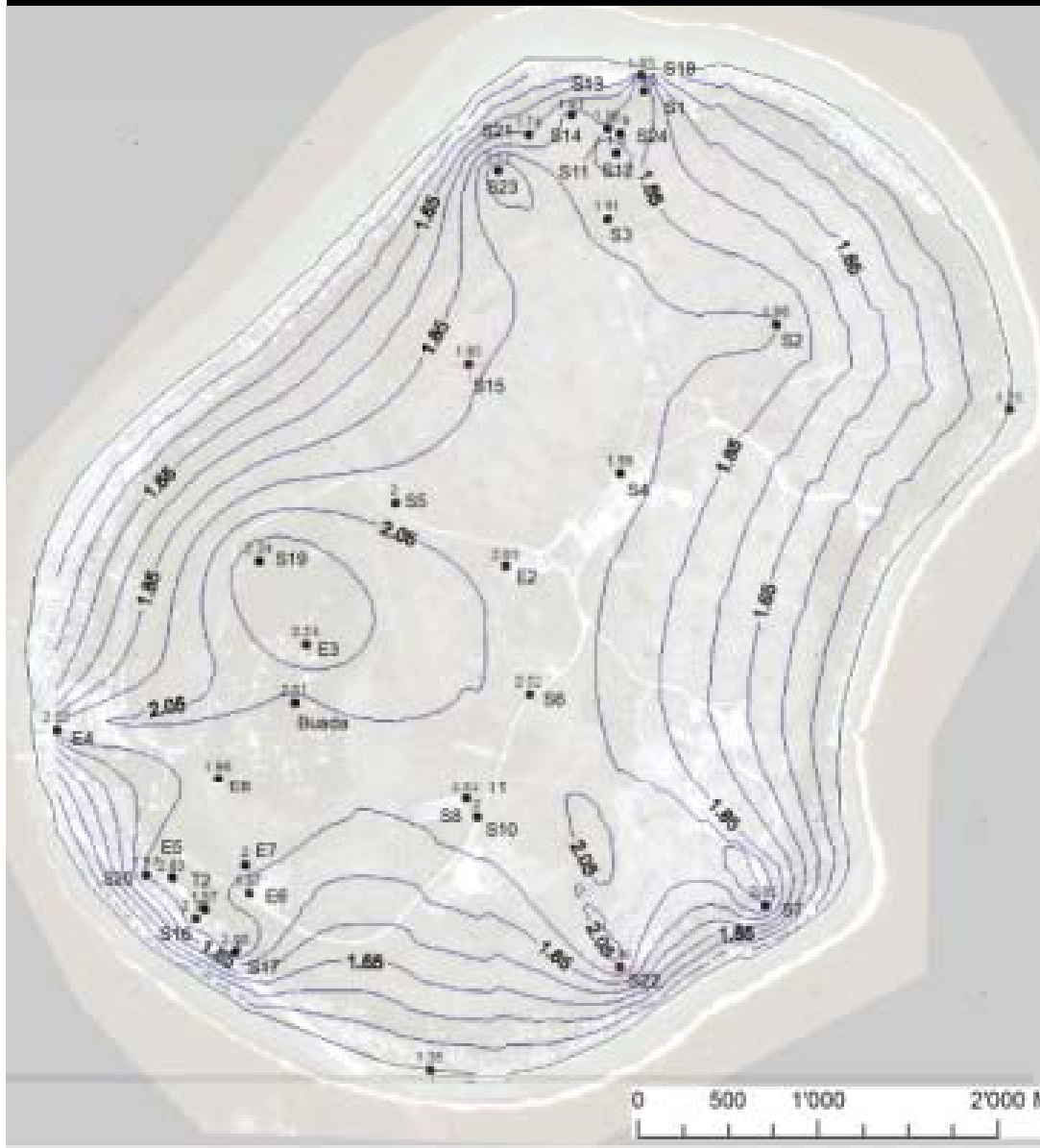


HYDROGEOLOGY

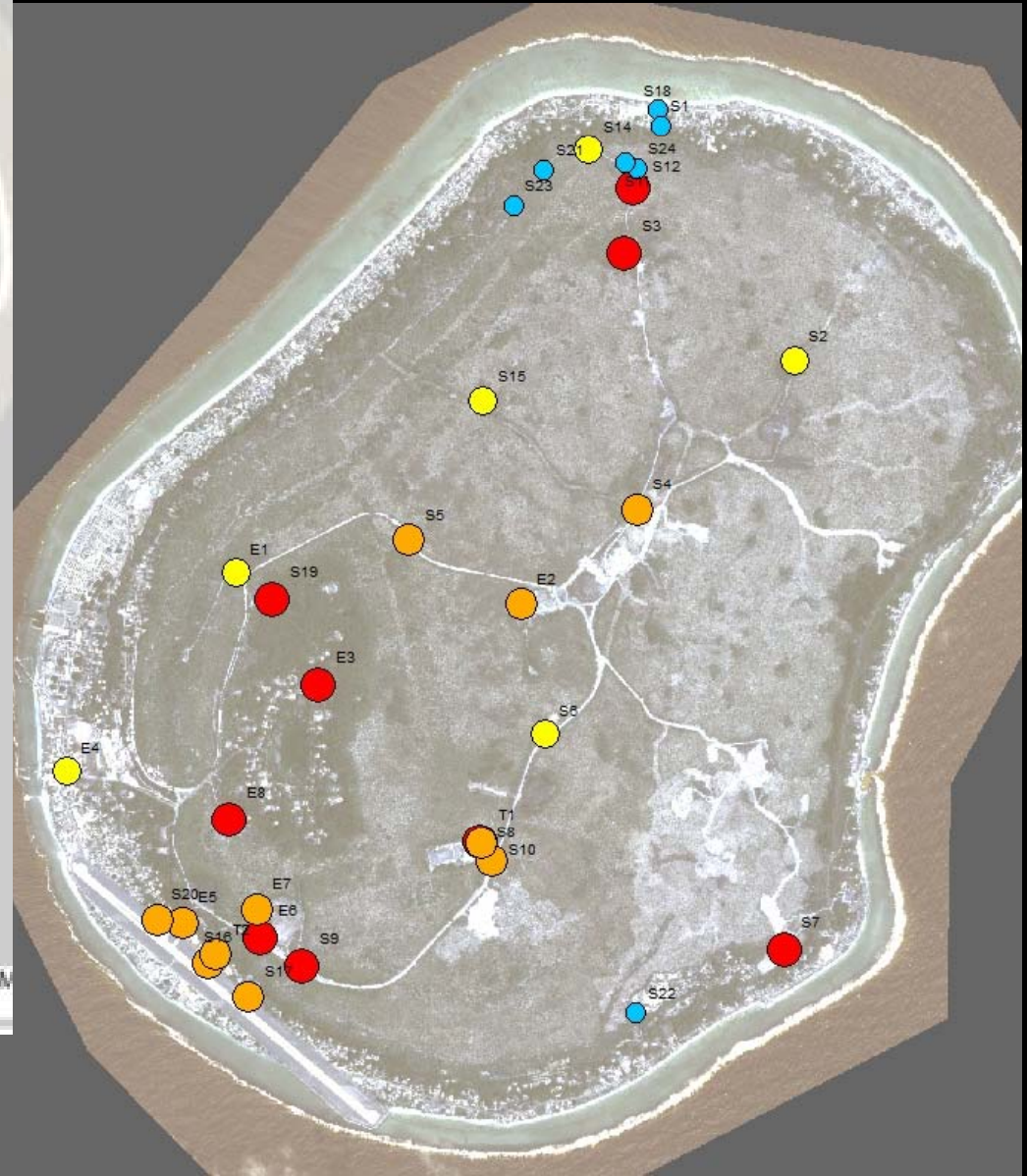
4 pumping tests
15 tidal lag and tide efficiency test



HYDROGEOLOGY



21 groundwater and EC surveys





Pumping test in Nauru

Ground Water monitoring in Nauru



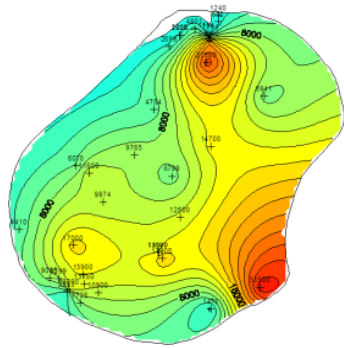
Water supply in Nauru



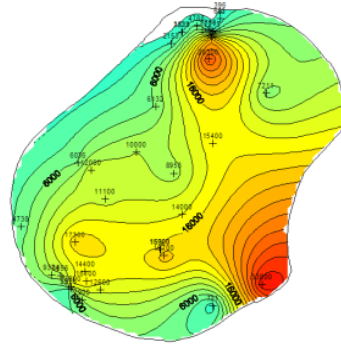
Water truck

Rain tanks

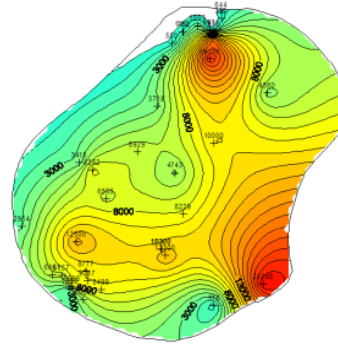




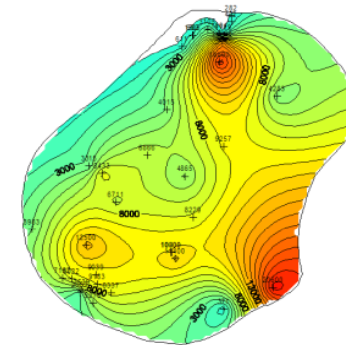
July 08



August 08

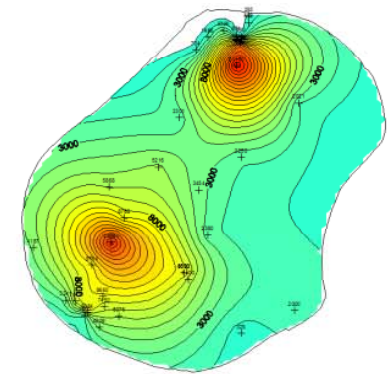
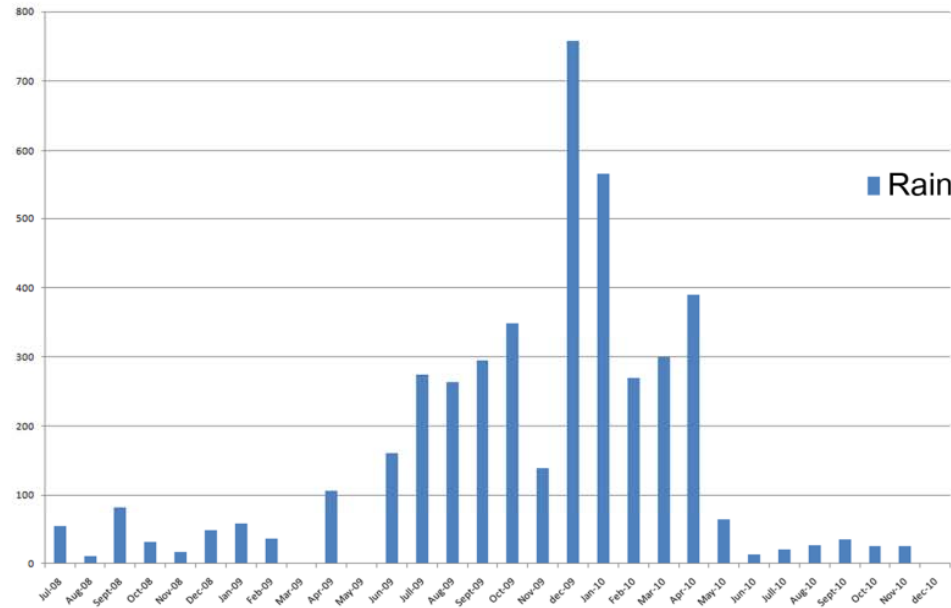


September 08

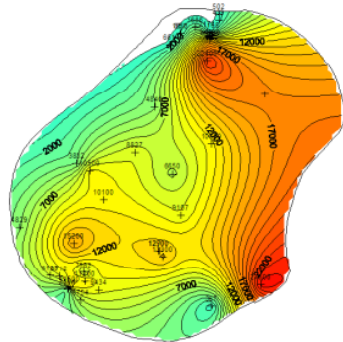


October 08

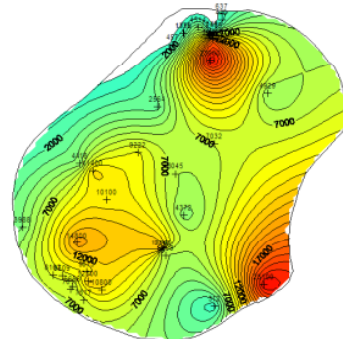
Salt water concentrations



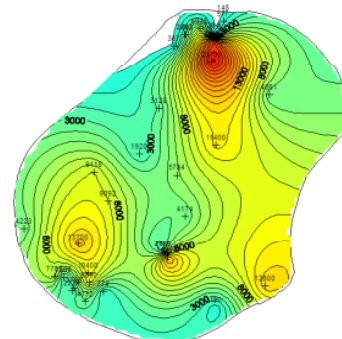
November-10



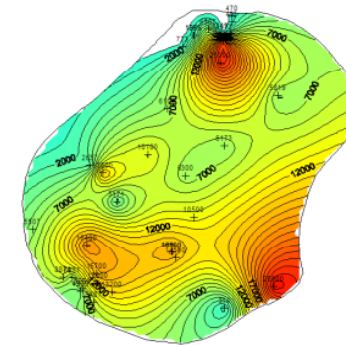
November 08



February 09

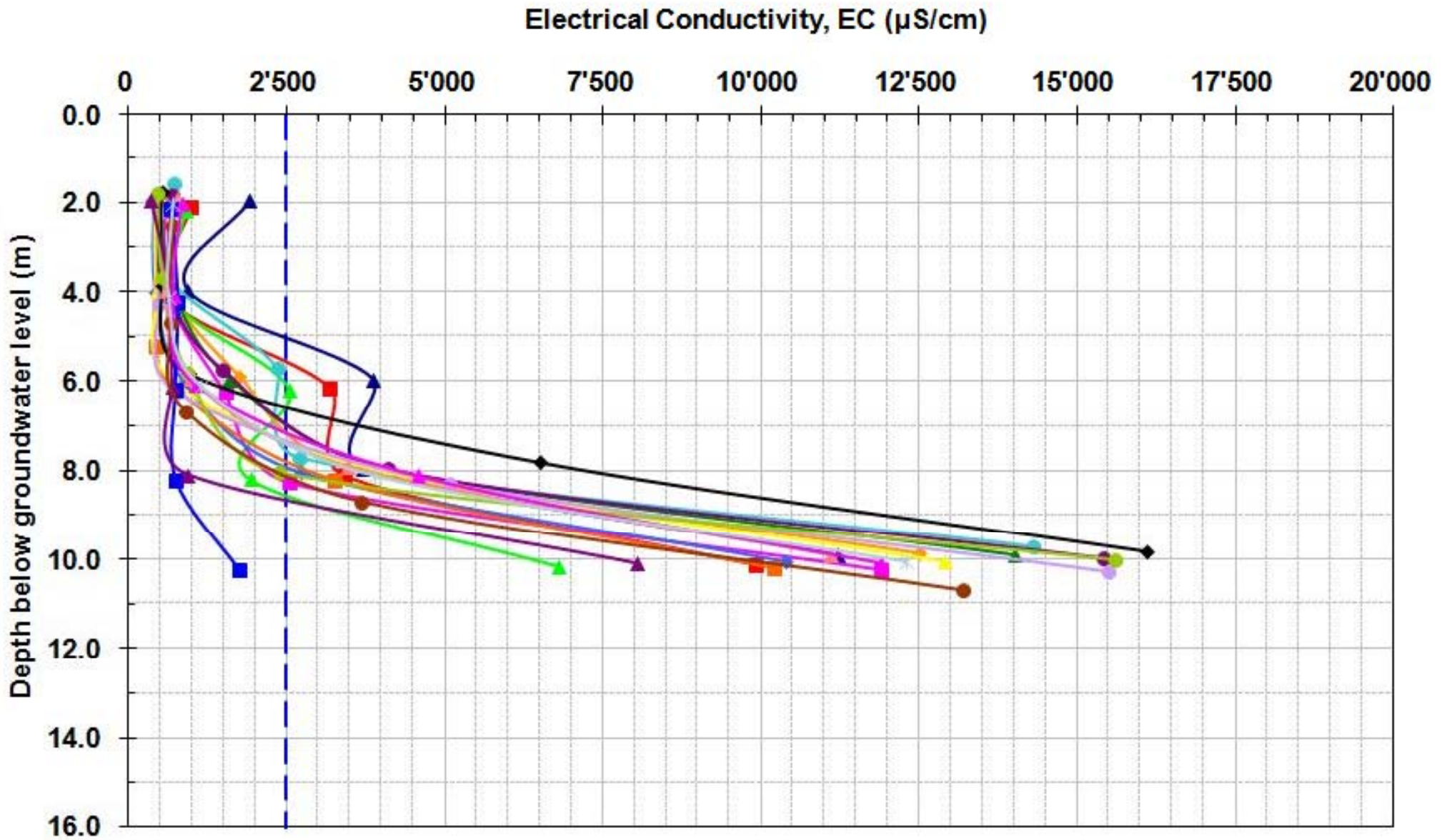


April 09

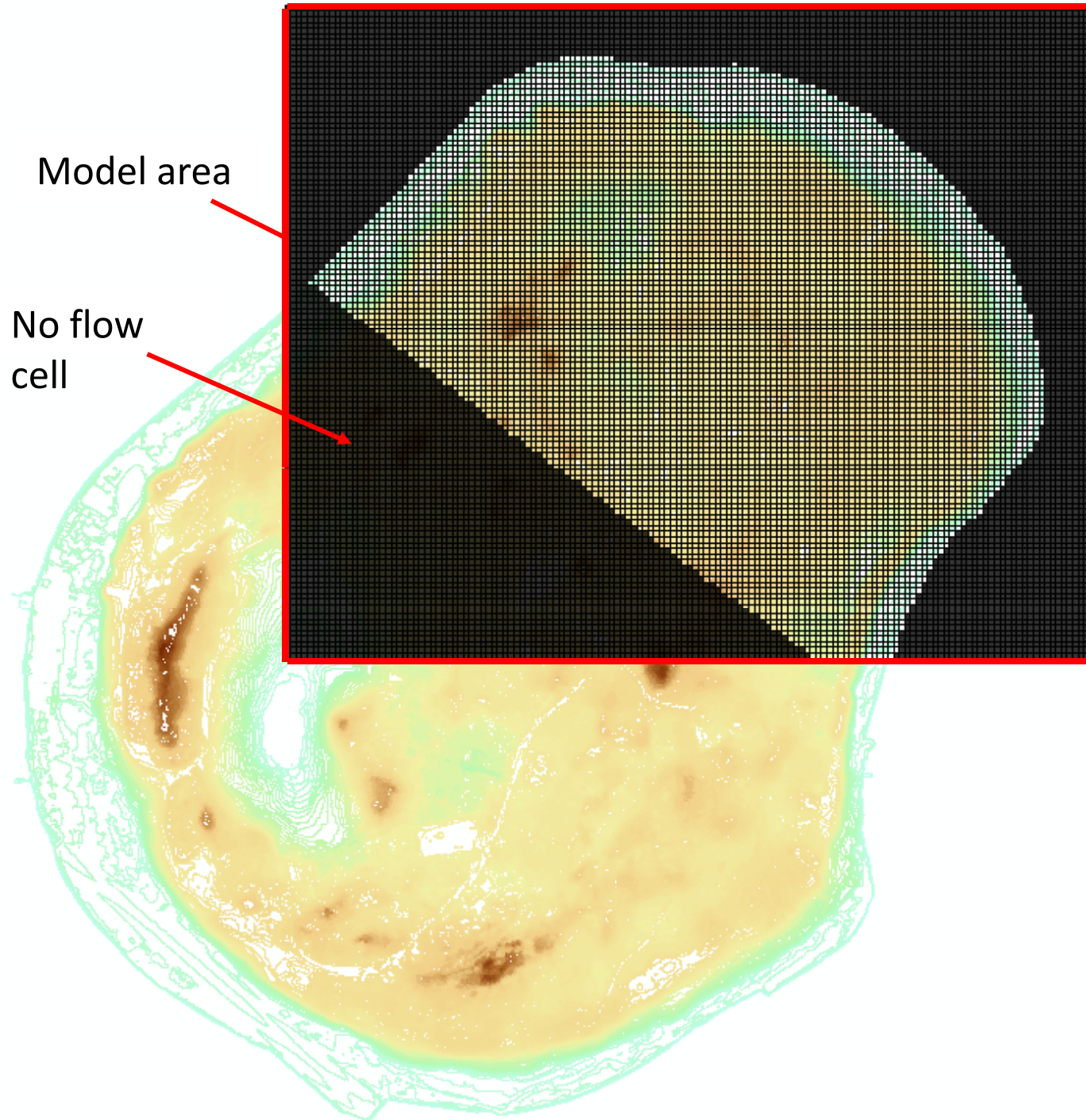


November 09

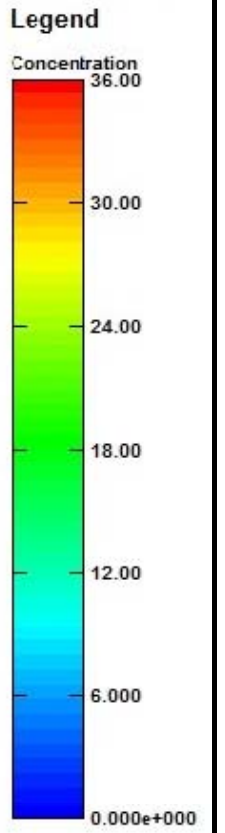
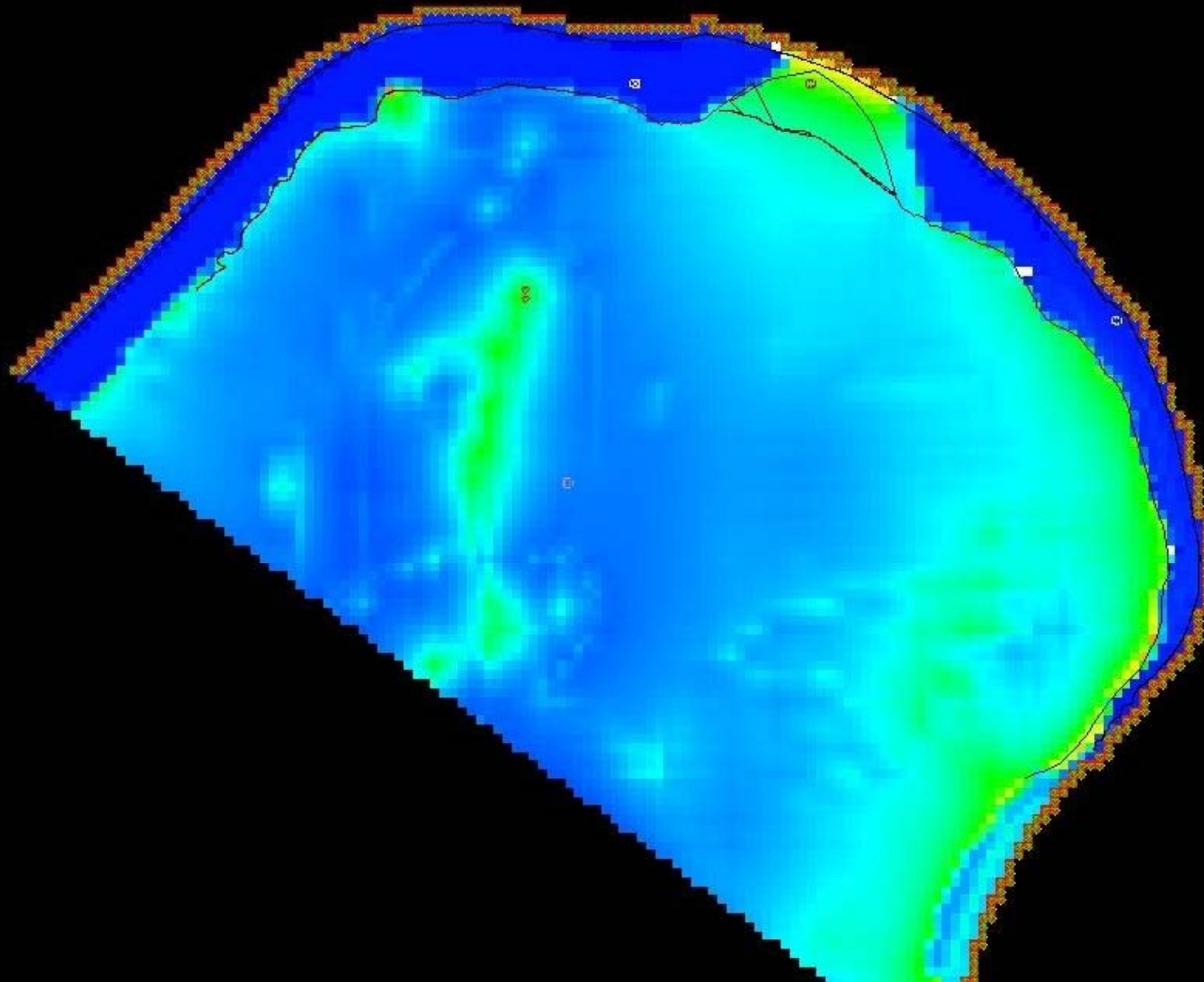
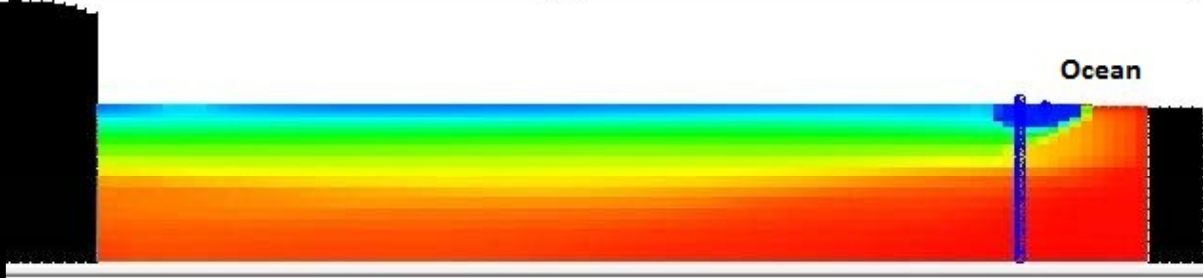
HYDROGEOLOGY



GROUNDWATER MODELLING



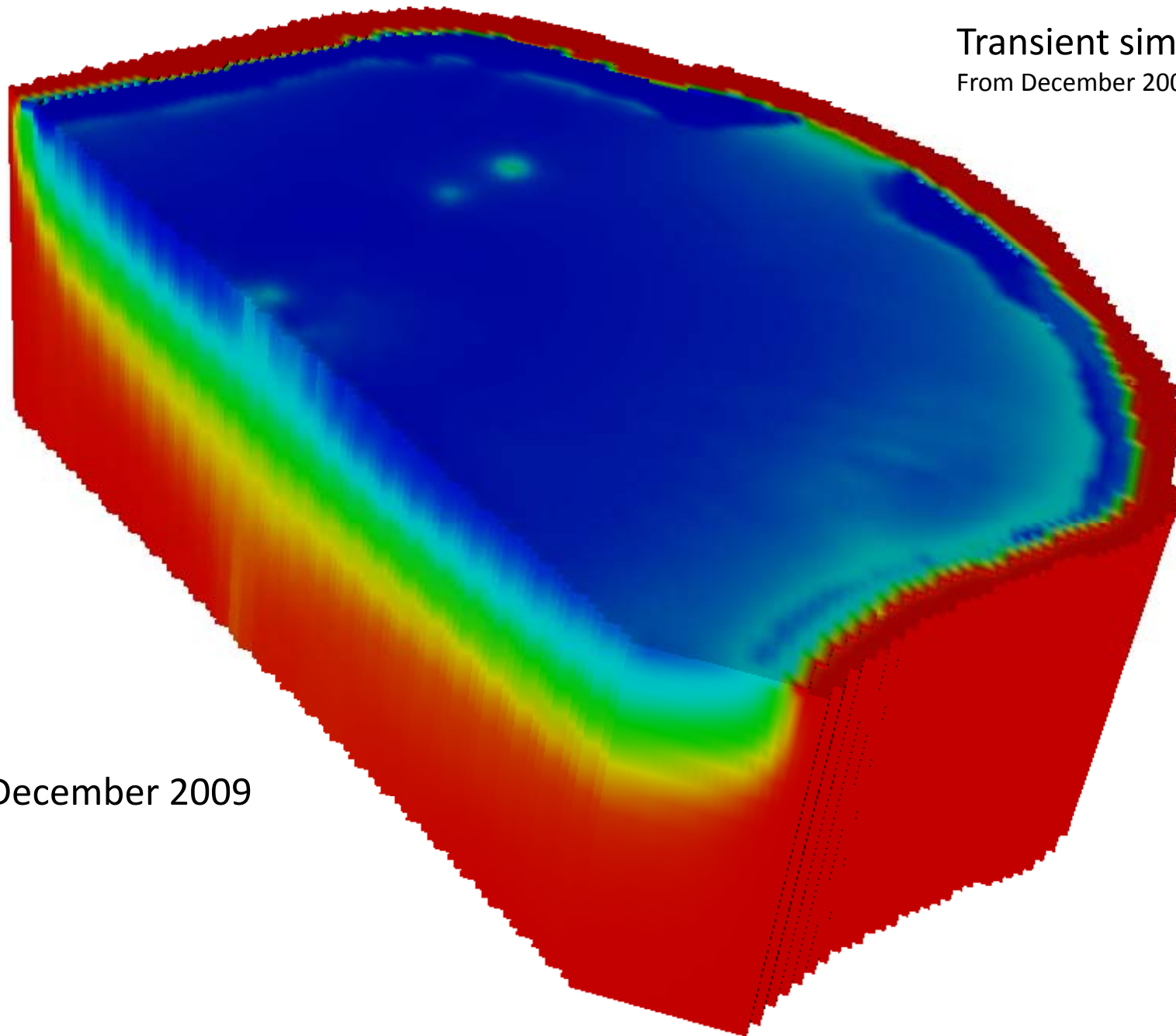
GROUNDWATER MODELLING



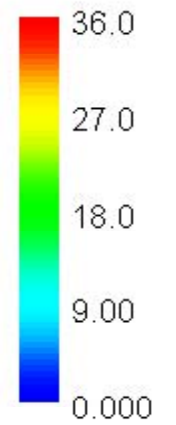
MODELLING

Transient simulation

From December 2009 to September 2011



Salt
concentrations
[kg/m³]

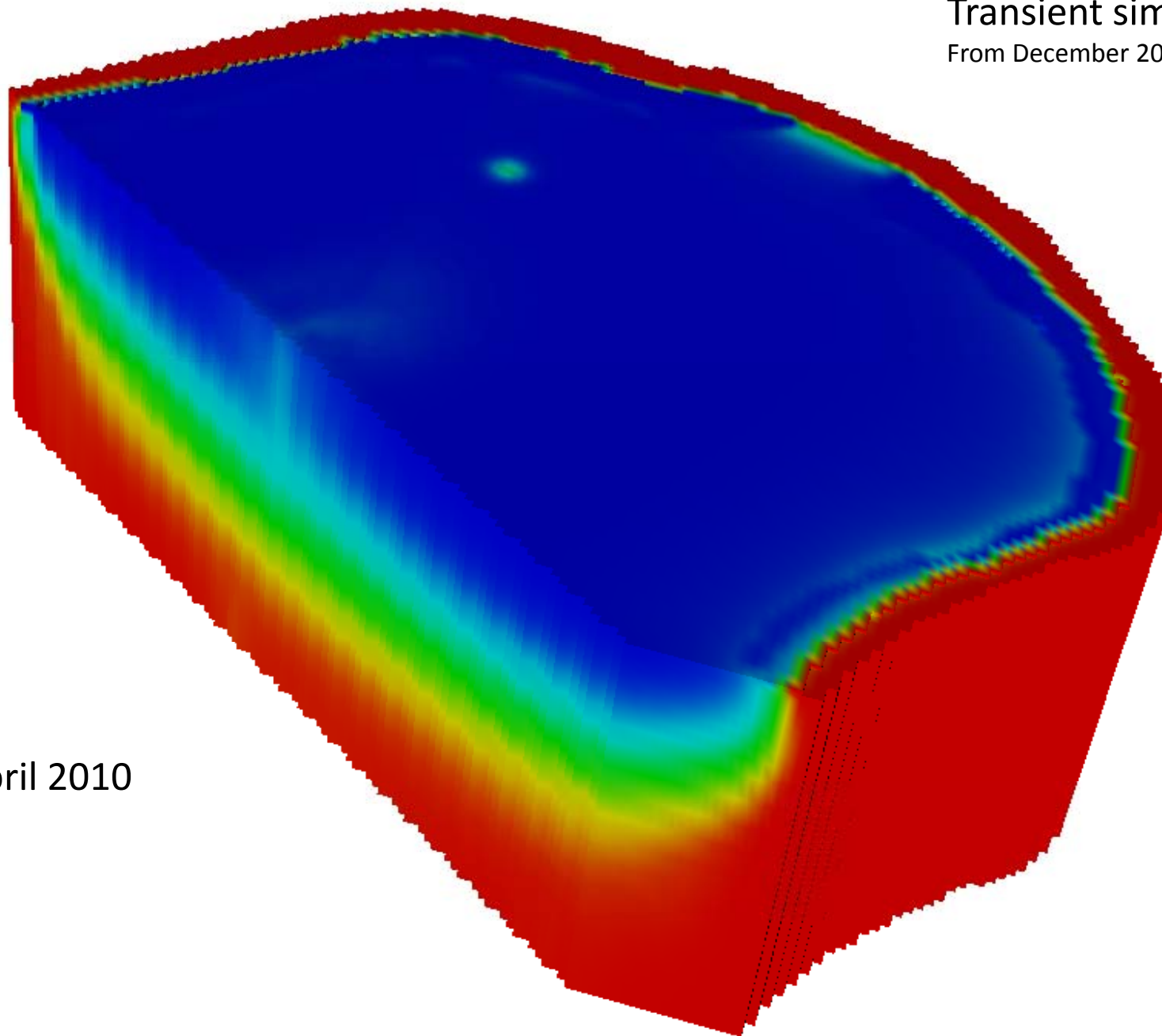


December 2009

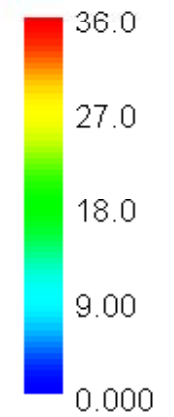
MODELLING

Transient simulation

From December 2009 to September 2011



Salt
concentrations
[kg/m³]

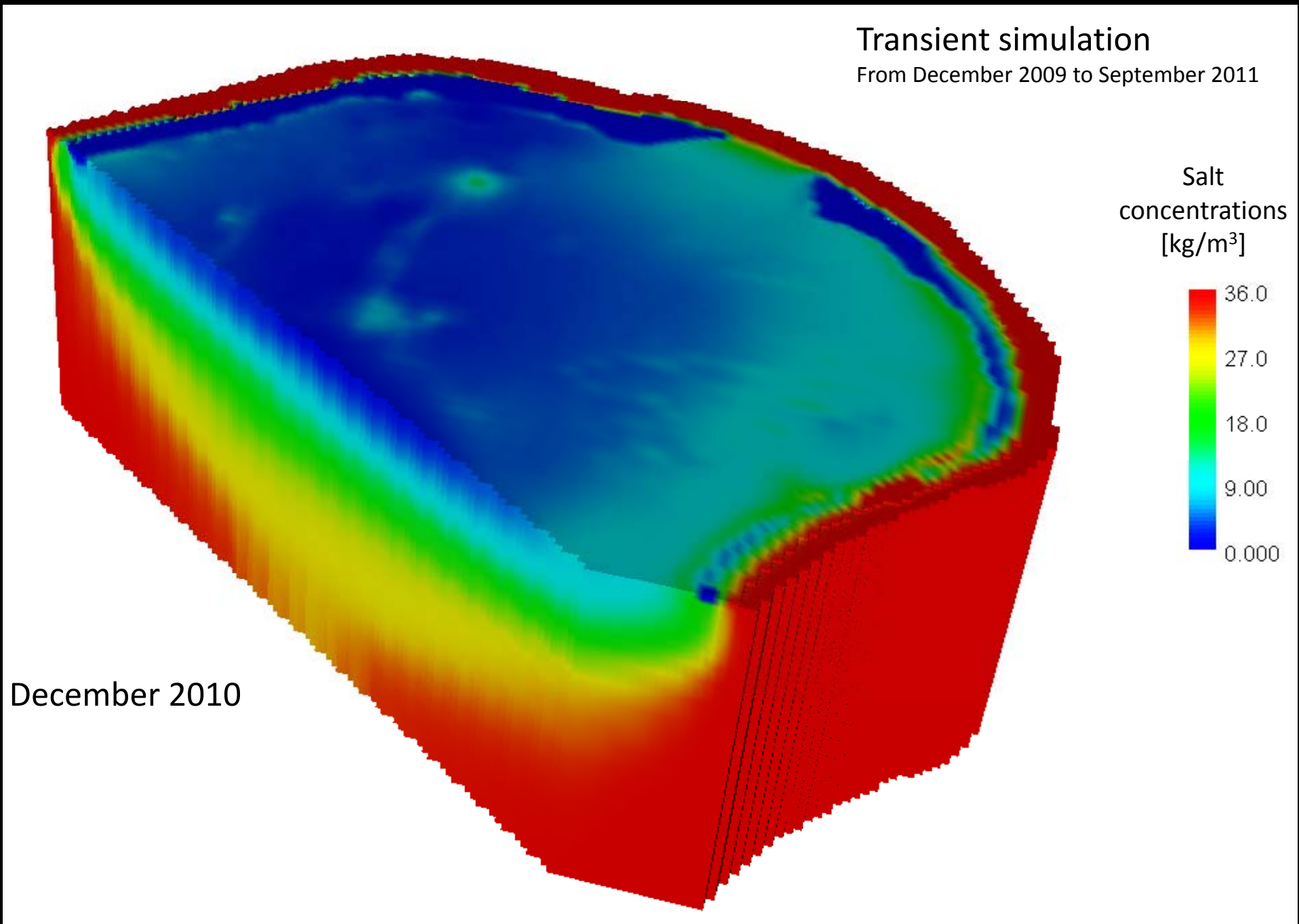


April 2010

MODELLING

Transient simulation

From December 2009 to September 2011

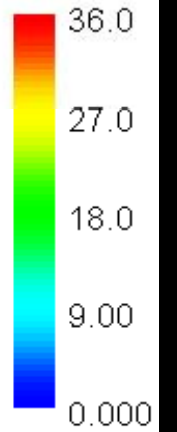


MODELLING

Transient simulation

From December 2009 to September 2011

Salt concentrations
[kg/m³]



September 2011

