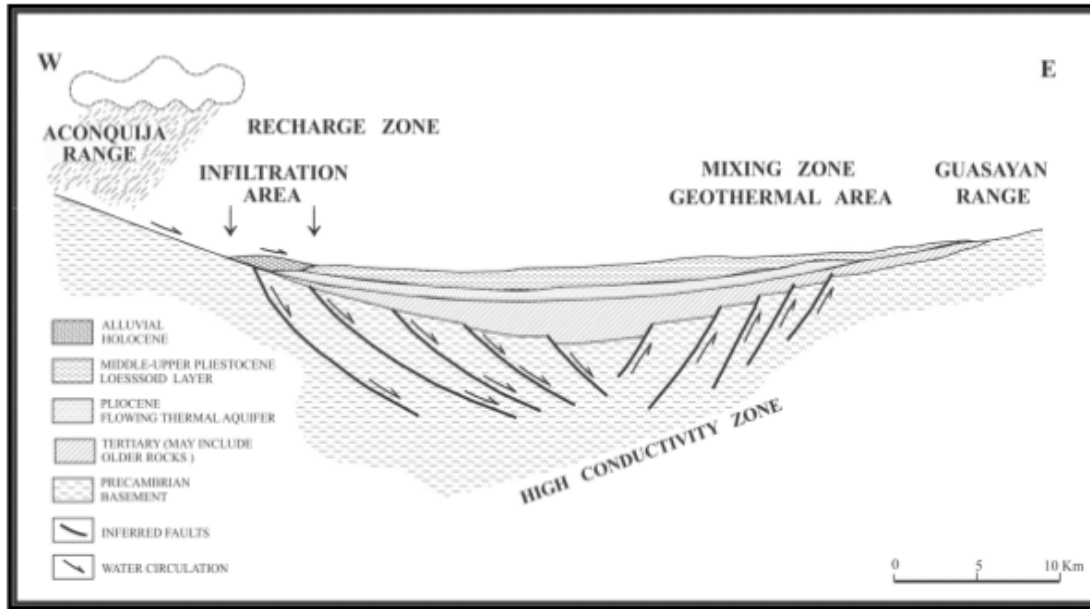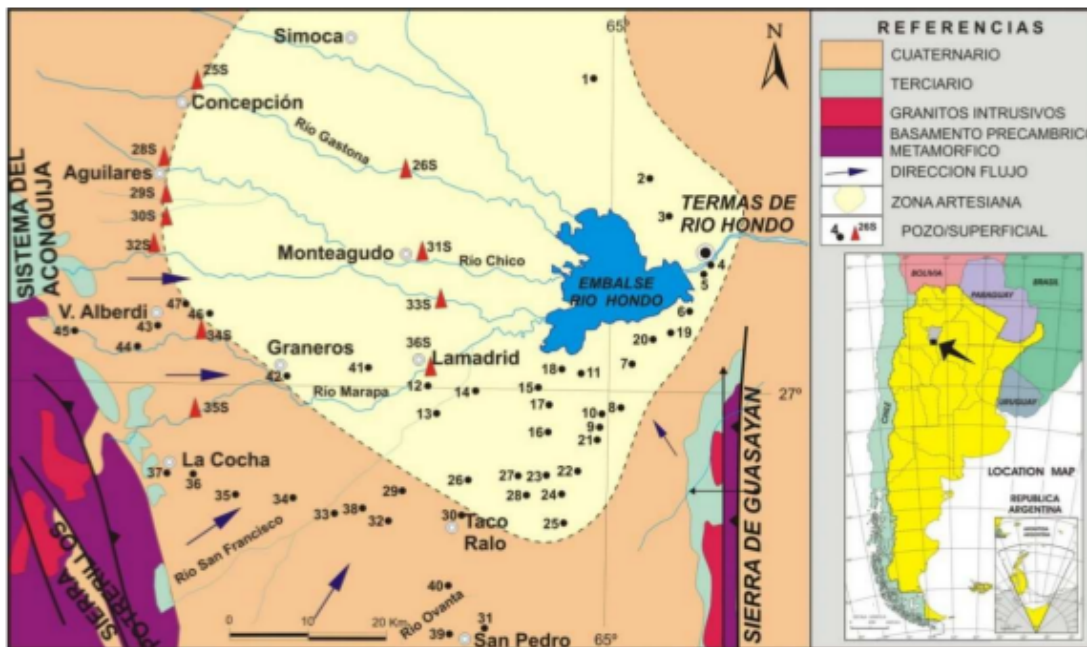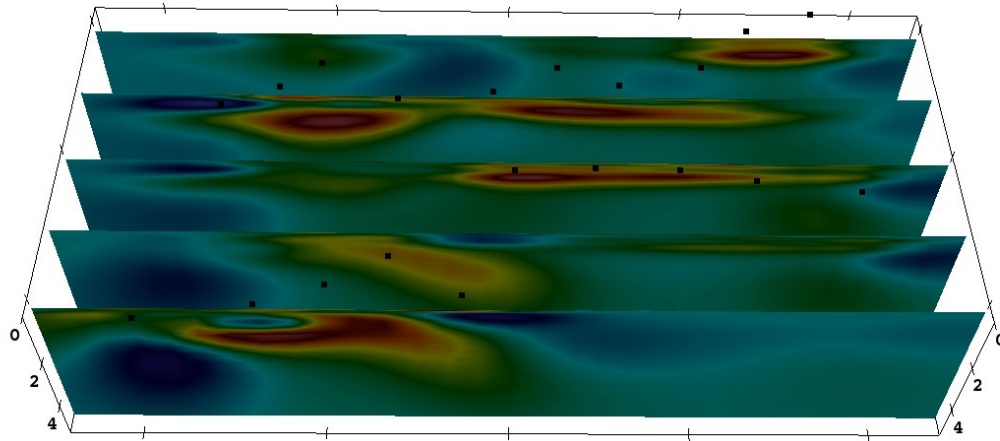# Area of studie: Taco Ralo

We want to identify the units of hydrogeological importance of the geothermal field

The source of heat would be the possible mantle ascent, which has been supported by deep magnetotelluric studies (up to 20 km)

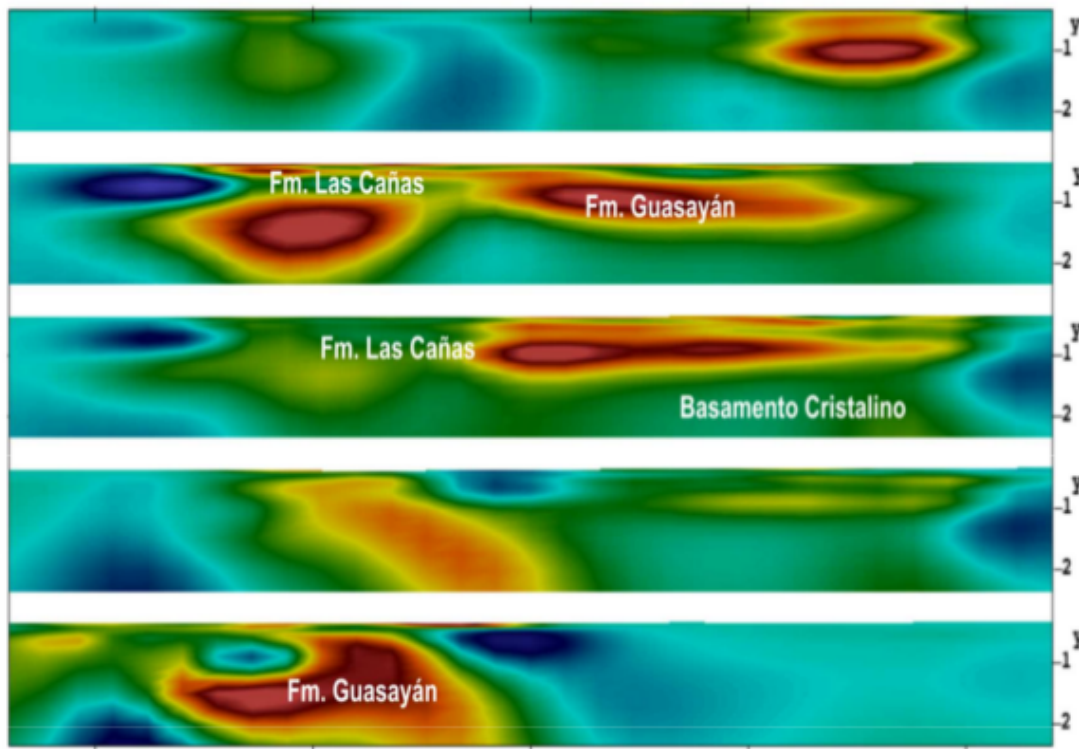Distribution of MT stations and slices with interpretation.

Grid model: 52x72x59 (in x, y, z, resp.)
Δx= Δy = 800 m, Δz= 15 m

Prior model: ρ=100 Ω.m with topography

Frequency range: 1000-0,398 Hz

δ min: 15 m (considering ρ= 1 Ω.m)

δ max: 8000 m (considering ρ= 100 Ω.m)

Resistividad (Ohm.m)

1.   2.   5.   10.   20.   50.   100.   200.   500.
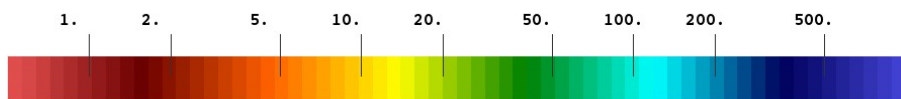
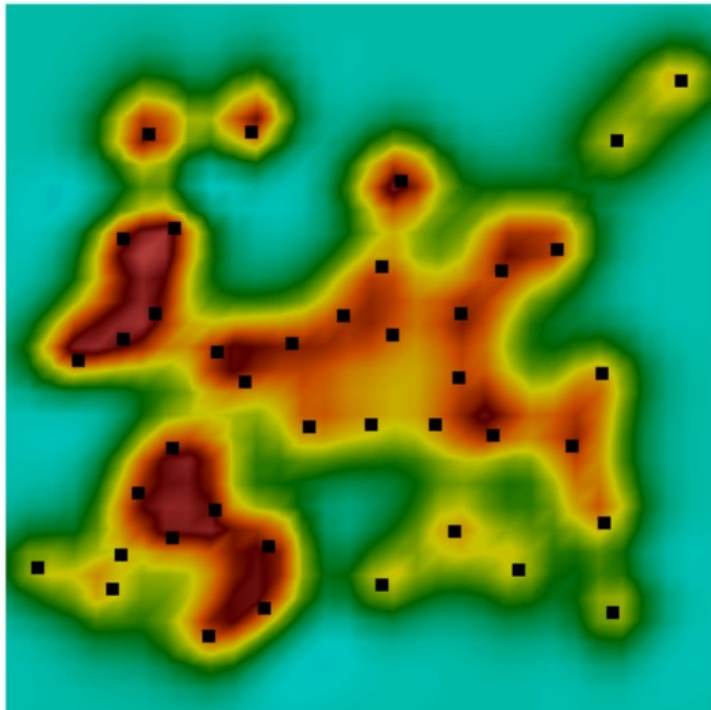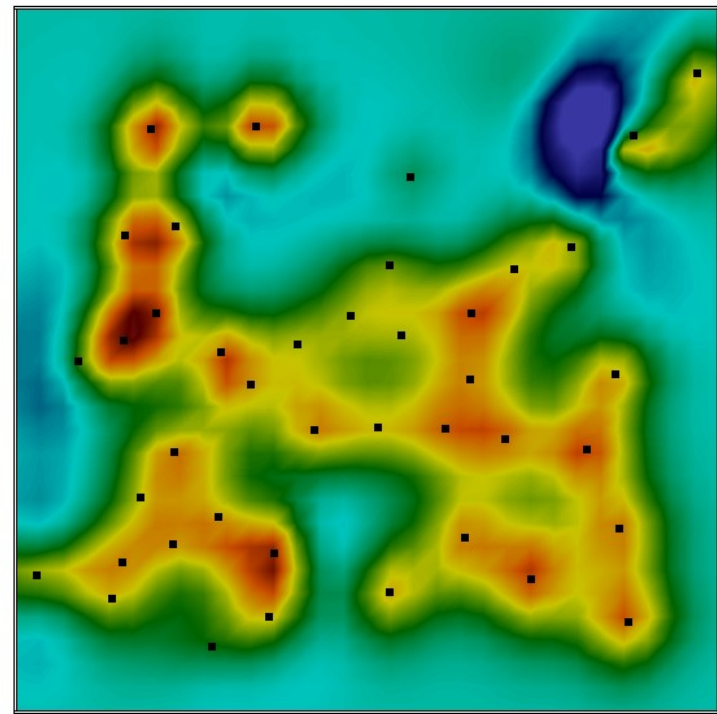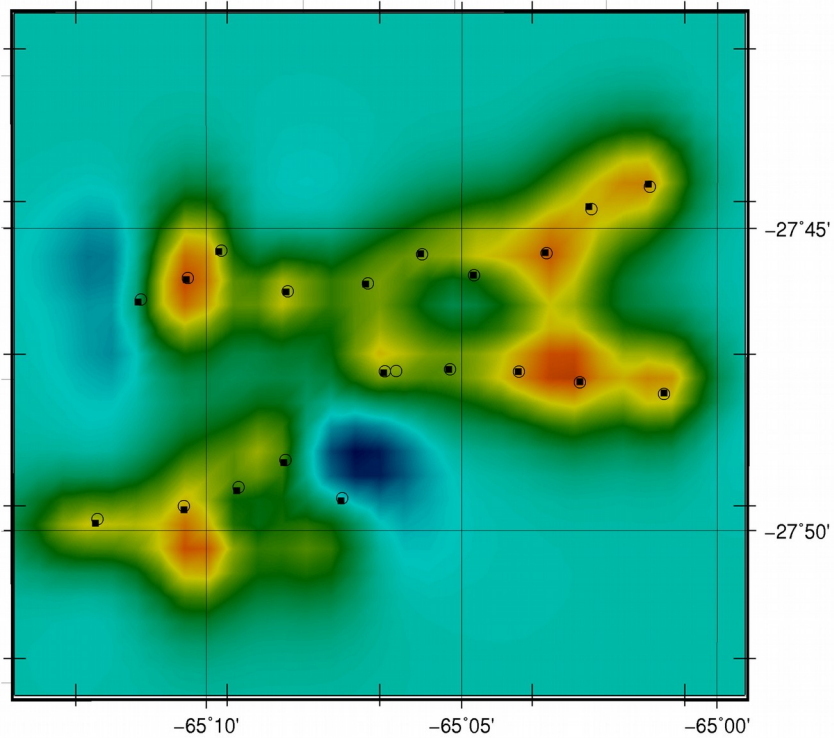# Comparison of models
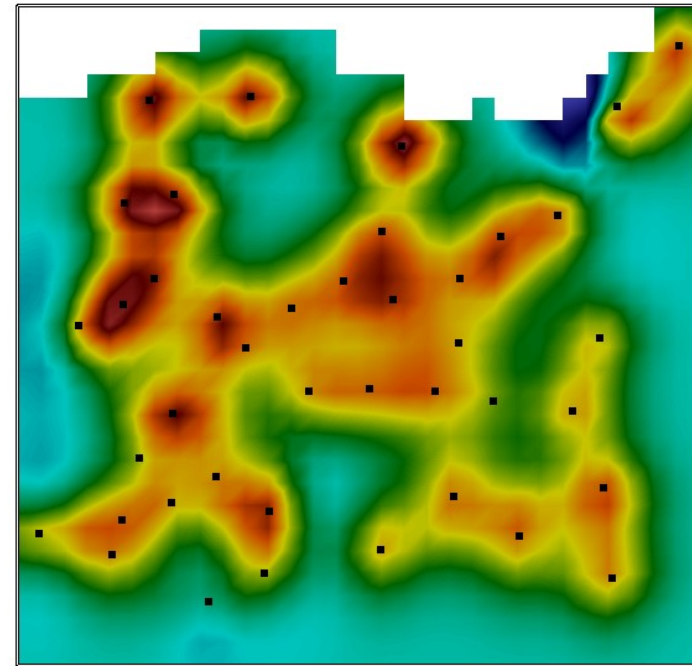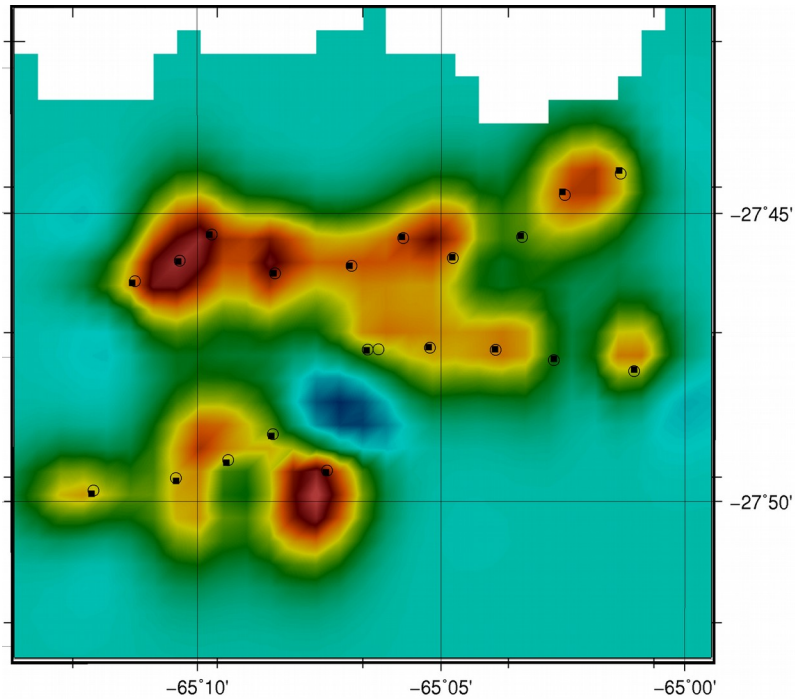
Z= 0 m

Top left: model with topography
and 20 MT stations.
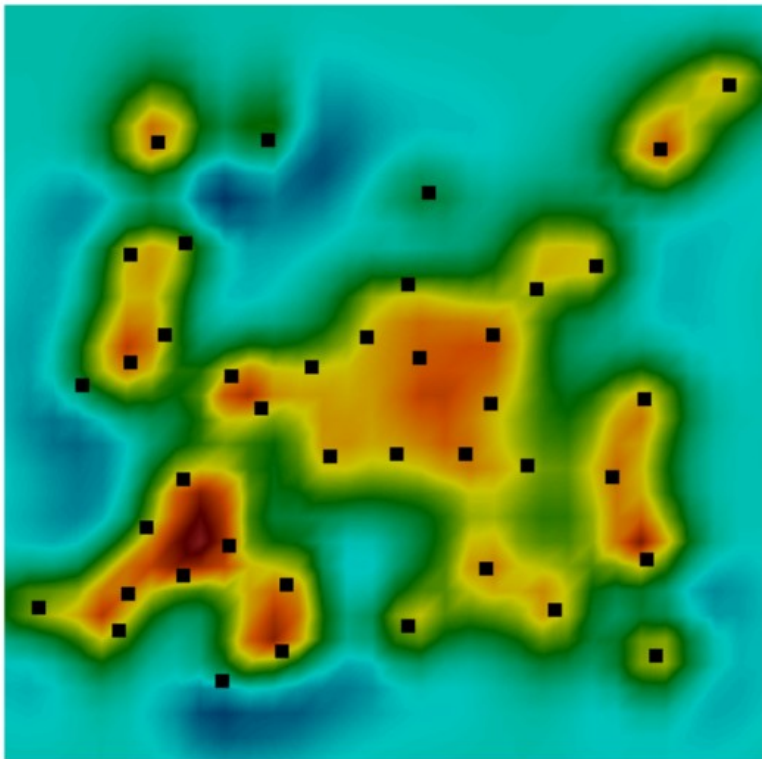
Top right: model with topography
and 41 MT stations.

Bottom left: model without
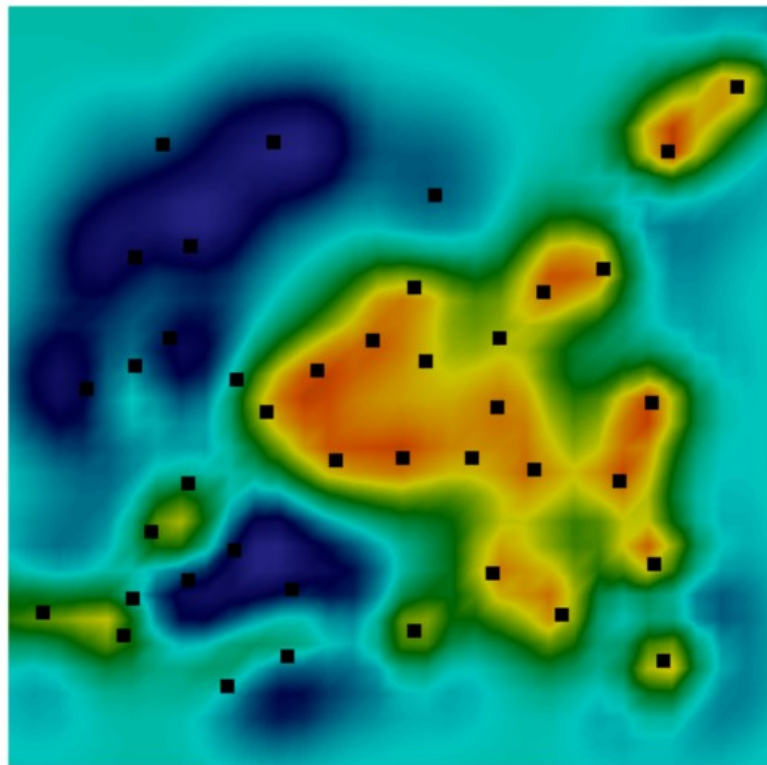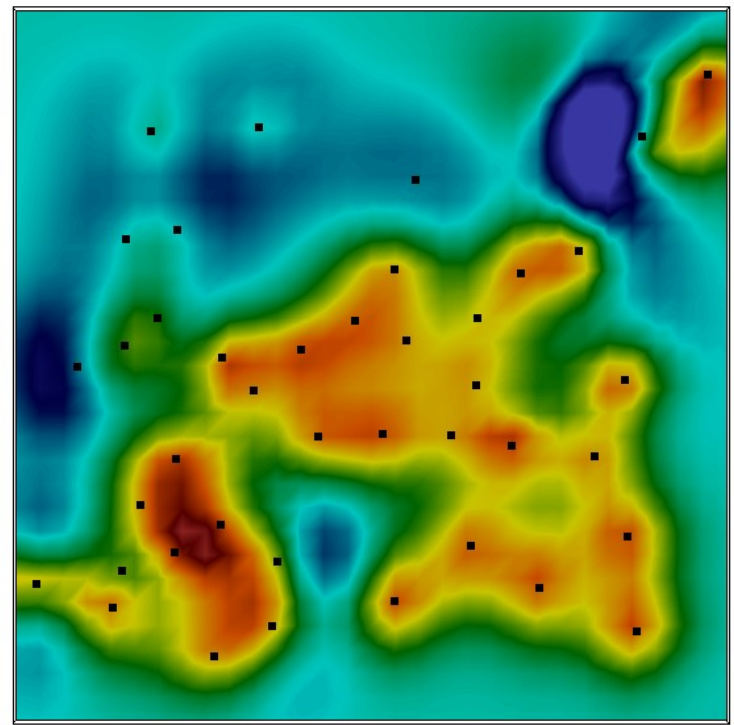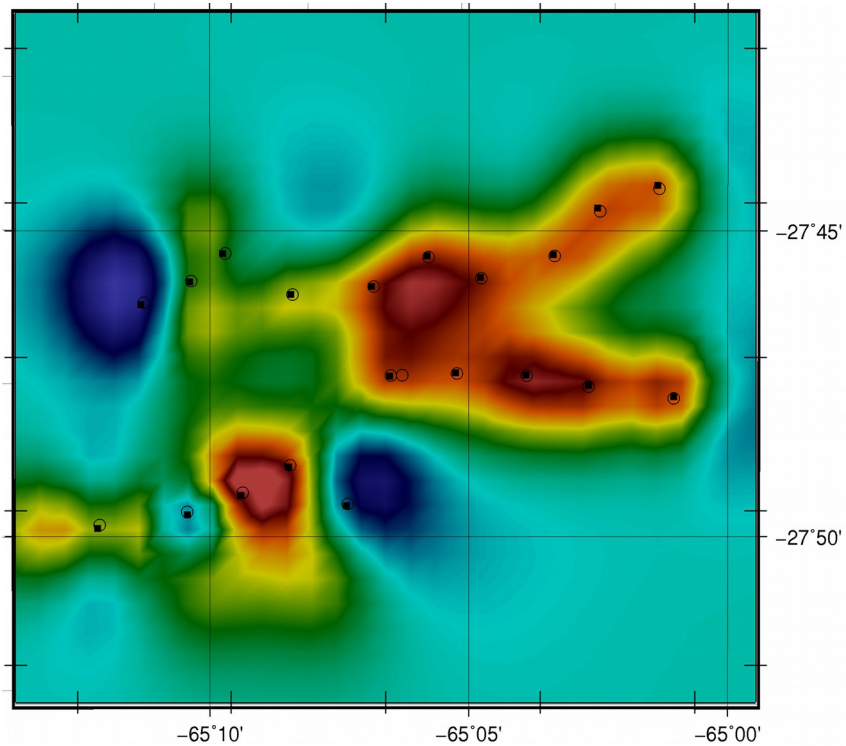topography and 41 stations.

Z= 60 m

Top left: model with topography
and 20 MT stations.

Top right: model with topography
and 41 MT stations.

Bottom left: model without
topography and 41 stations.

Z= 200 m

Top left: model with topography
and 20 MT stations.

Top right: model with topography
and 41 MT stations.

Bottom left: model without
topography and 41 stations.

Z= 600 m

Top left: model with topography
and 20 MT stations.

Top right: model with topography
and 41 MT stations.

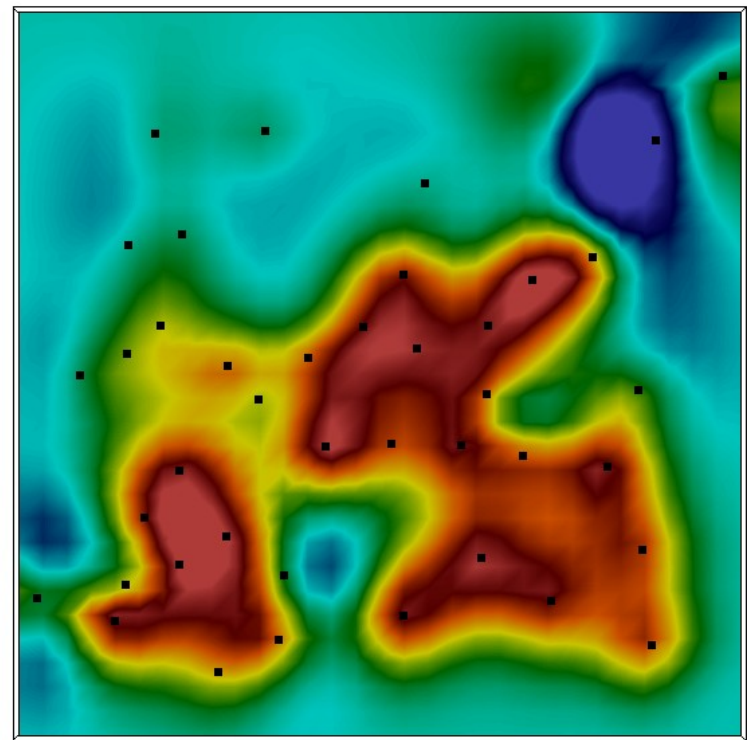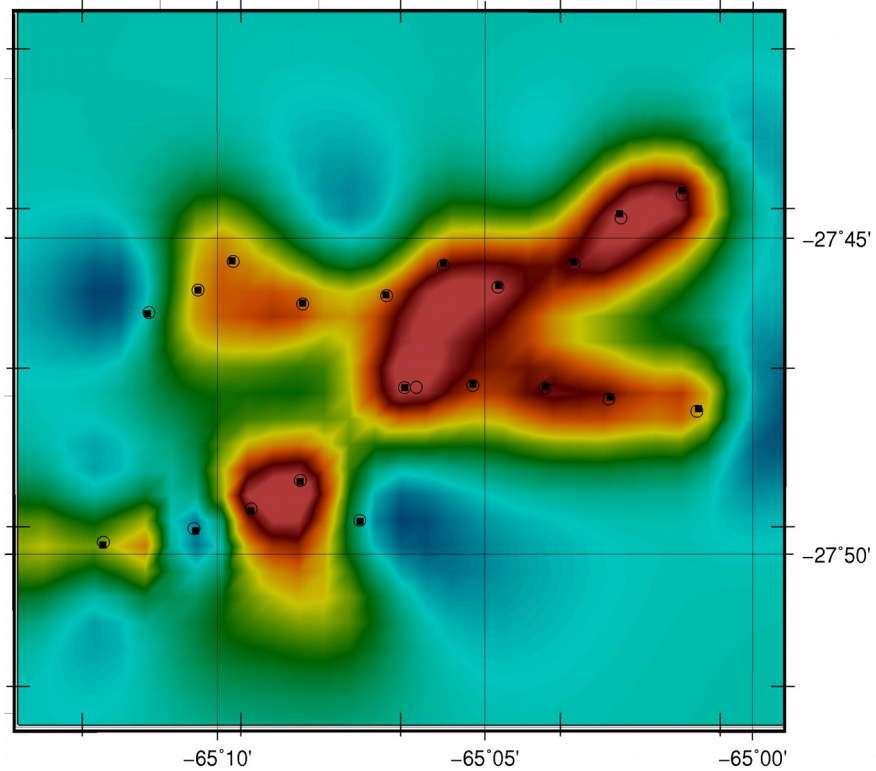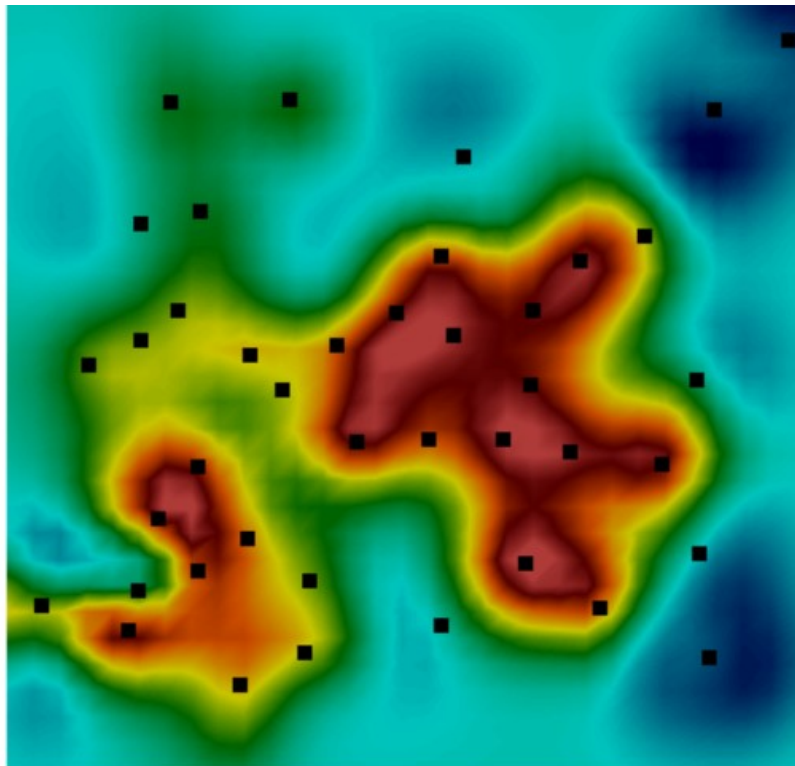Bottom left: model without
topography and 41 stations.

Z= 1100 m

Top left: model with topography and 20 MT stations.

Top right: model with topography and 41 MT stations.

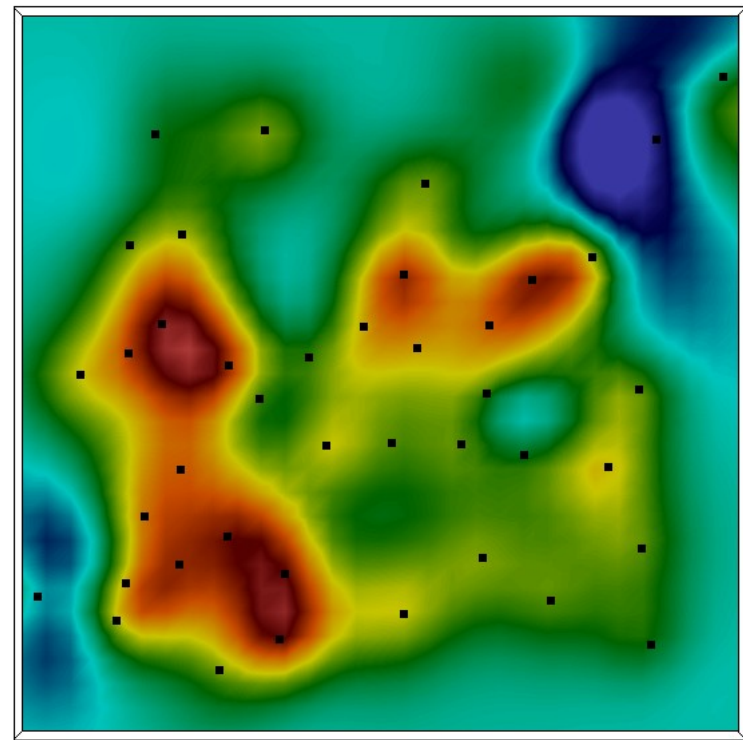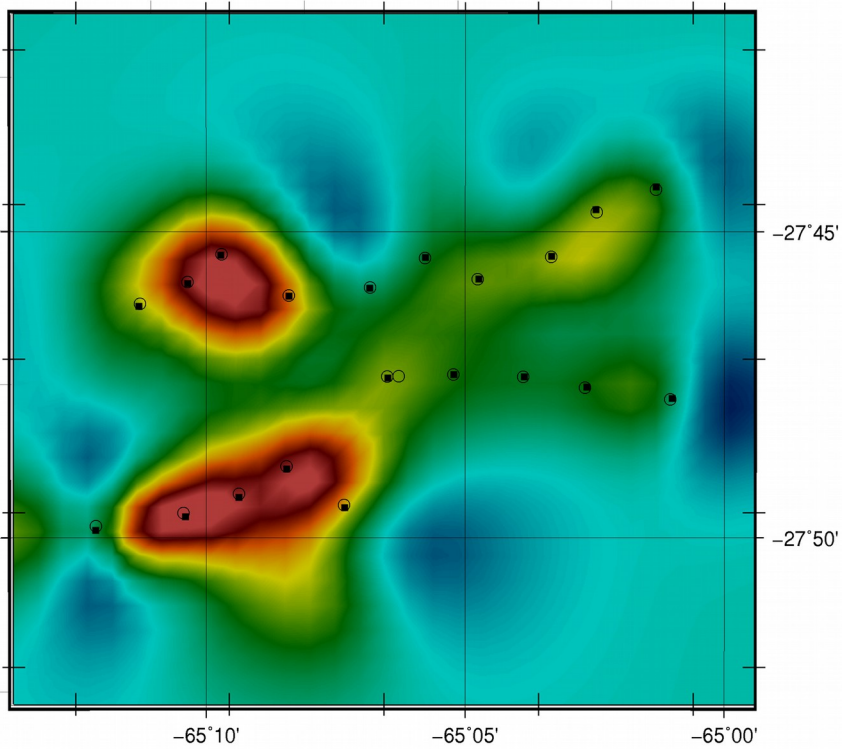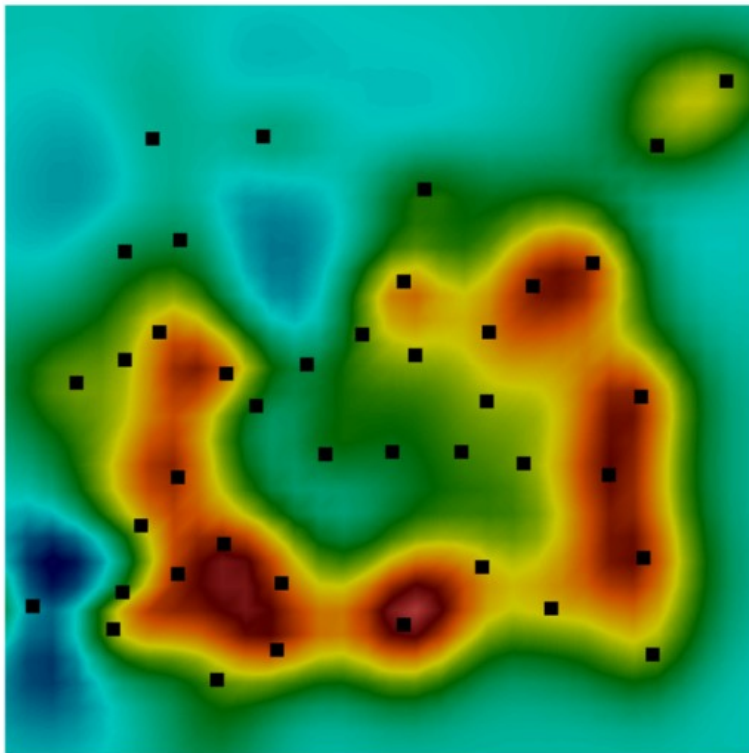Bottom left: model without topography and 41 stations.