Figure 1: Facies variations for a selected fine model, with colors corresponding to different rock types. The upper-left plot shows a perspective view of the actual grid, whereas the rock types have been mapped to a uniform grid for a better visualization to the upper right. The lower plot shows a histogram of the logarithm of the lateral permeability (unit: cP m^3/day/bar).
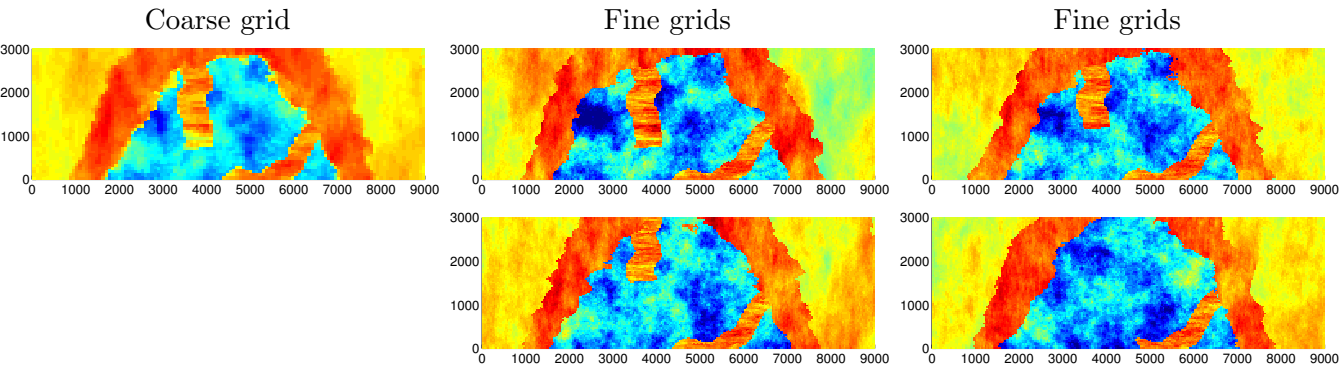

Figure 2: Top view of the logarithm of the lateral permeability plotted for the first four layers of the fine grid versus their representative layer in the coarse grid.

Table 1: Specifications for the fine and coarse grids used in the SAIGUP modeling process.

Parameter	Fine scale	Coarse scale
Grid spacing (x-direction)	37.5 m	75 m
Grid spacing (x-direction)	37.5 m	75 m
Grid spacing (x-direction)	1 m	4 m
Total number of cells	1,500,000	96,000
Number of active cells	1,500,000	79,000
Lateral extent (x-direction)	6 km	6 km
Lateral extent (y-direction)	9 km	9 km
Vertical extent (z-direction)	80 m	80 m