

Case name	Sub-case names	Number of realizations	Total number of realizations	Case description
Basic setup	Basic modeling setup	50	50	The basic setup uses boreholes as hard data, smooth resistivity models as soft data, and the cognitive Kasted model as a TI.
Case 1a	(a) Egebjerg TI	50	100	Two different TIs are used to study the uncertainty related to the choice of TI, which reflects the conceptual geological understanding.
Case 1b	(b) Conceptual TI	50		
Case 2	Incomplete soft data grid	50	50	The uncertainty related to the reconstruction of the resistivity grid is studied by running simulations with an incomplete resistivity grid.
Case 3	Sharp resistivity models	50	50	The sharp resistivity models are used for simulations instead of the smooth models to study how the choice of resistivity model influences the hydrostratigraphic models.
Case 4a	(a) No borehole data	50	100	Simulations are run without hard data to see how much the hard data influences the results.
Case 4b	(b) Soft borehole data	50		The borehole data are used as soft information instead of hard by combining the borehole probability grid with the SkyTEM probability grid using the tau model.
Case 5	No soft resistivity data	50	50	Simulations are run using only the hard data and the cognitive Kasted TI.
Total	–	–	400	–