

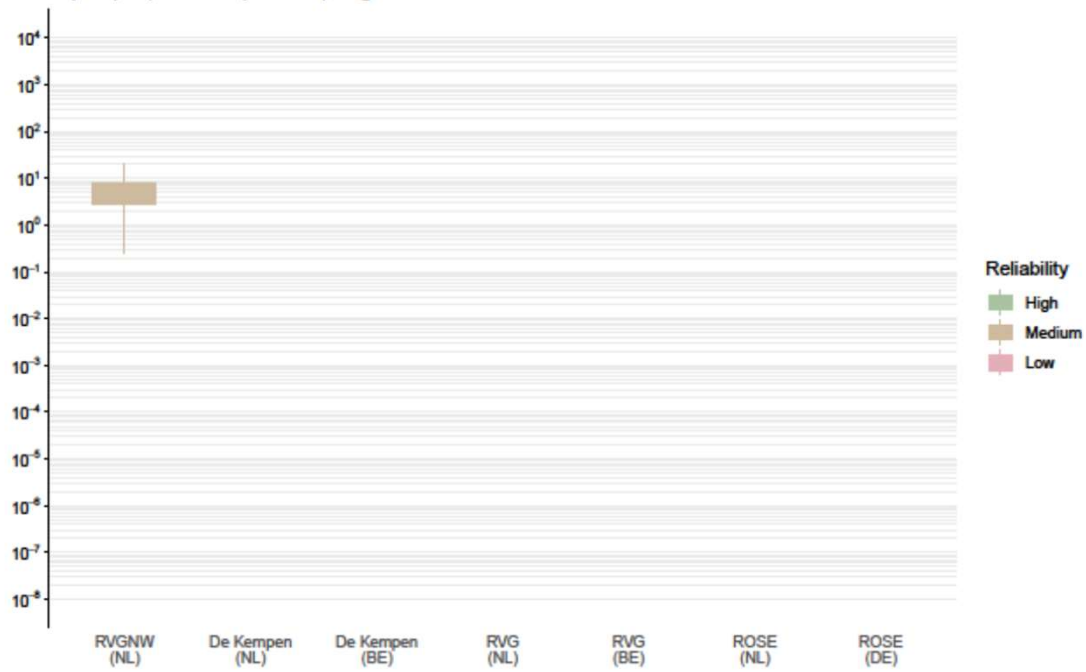
Unit BXz1

NL: Fm. van Boxtel, 1e zandige eenheid

BE:

DE:

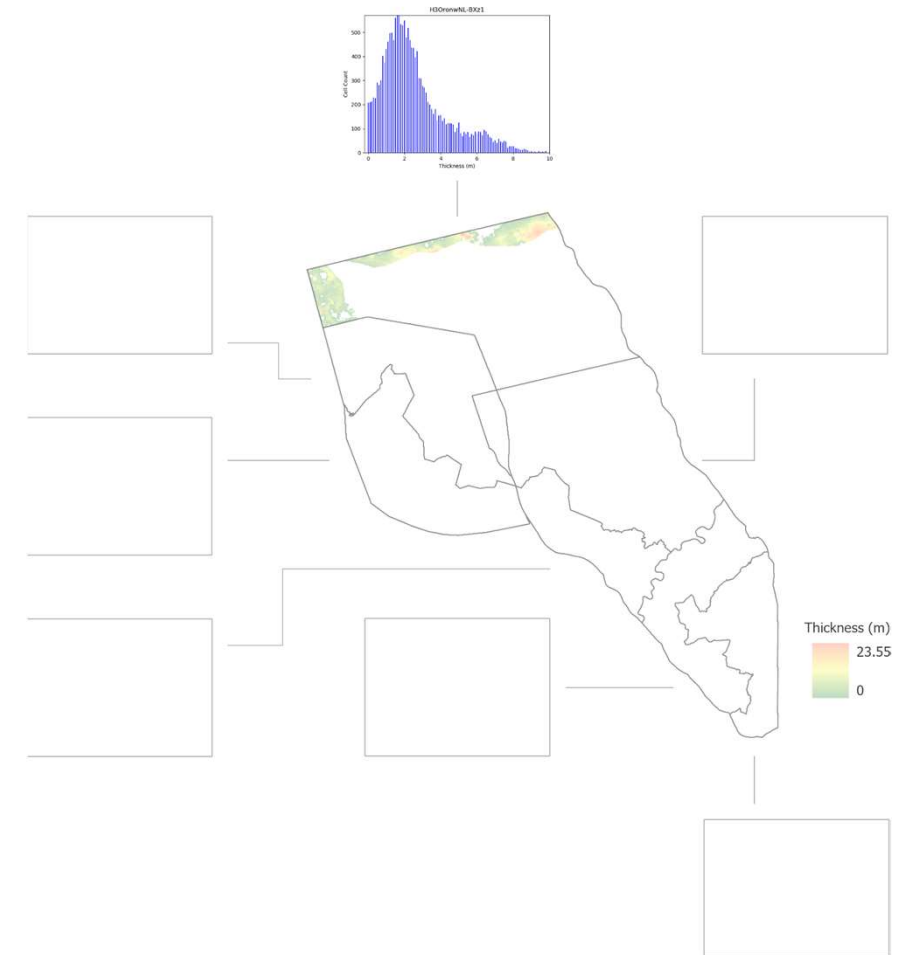
Hydraulic conductivity [m/d] of BXz1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of BXz1 by model area



Unit KRz1

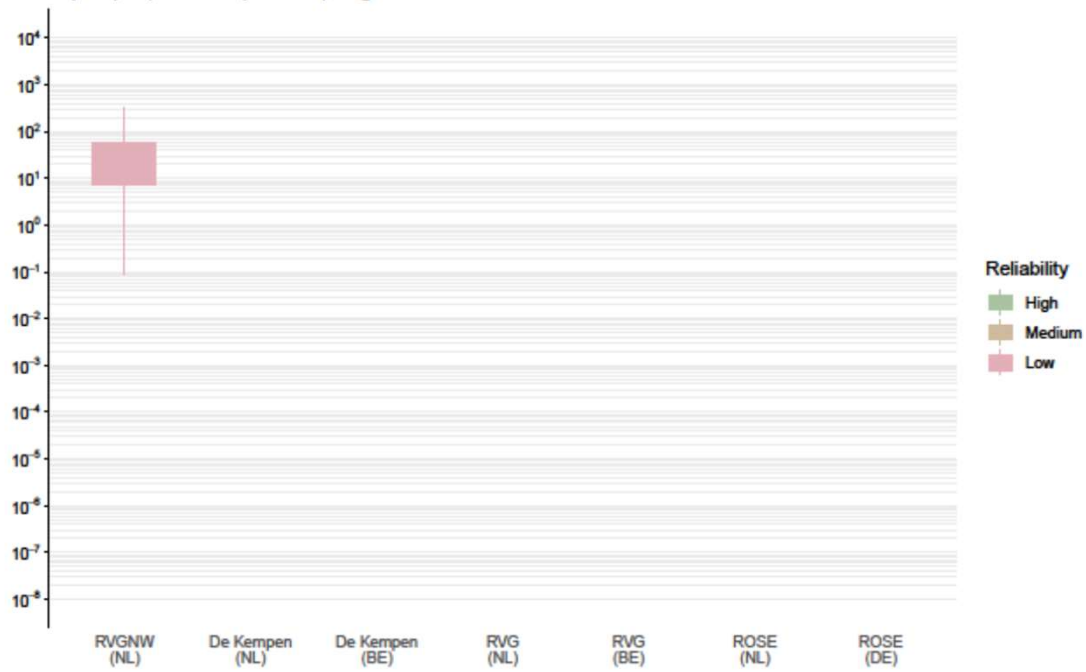
NL: Fm. van Kreftenheye, 1e zandige eenheid

BE:

DE:

Hydraulic conductivity [m/d] of KRz1 by model area

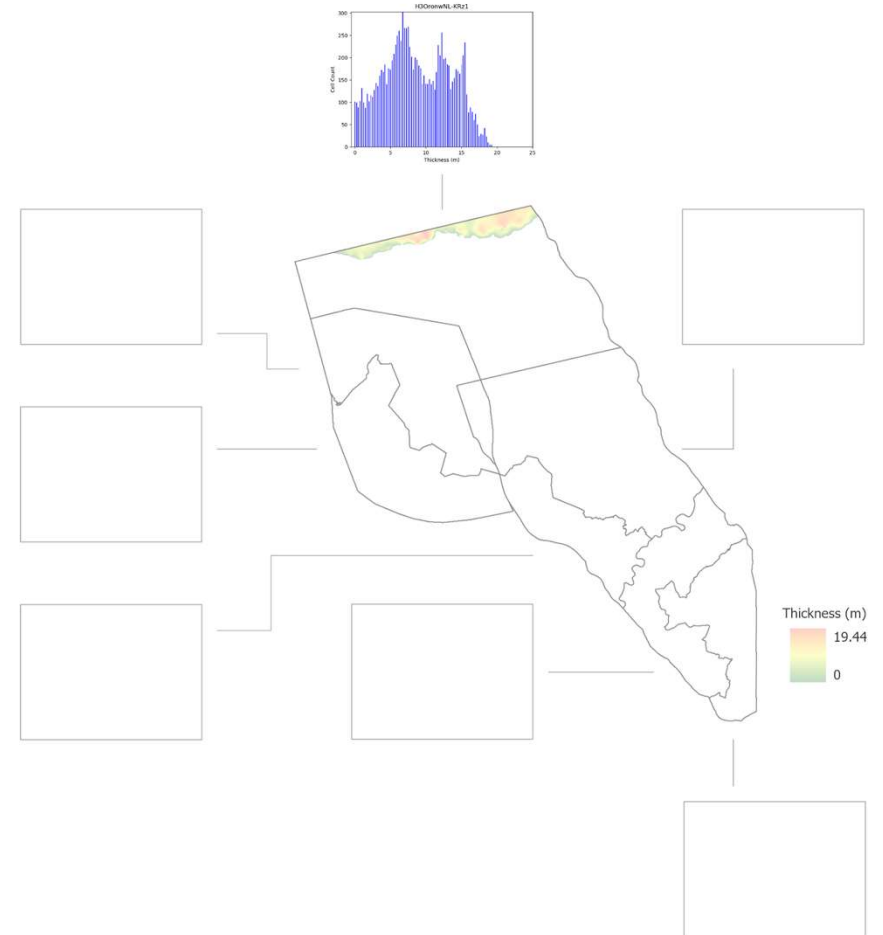
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of KRz1 by model area



Unit BXSCk1

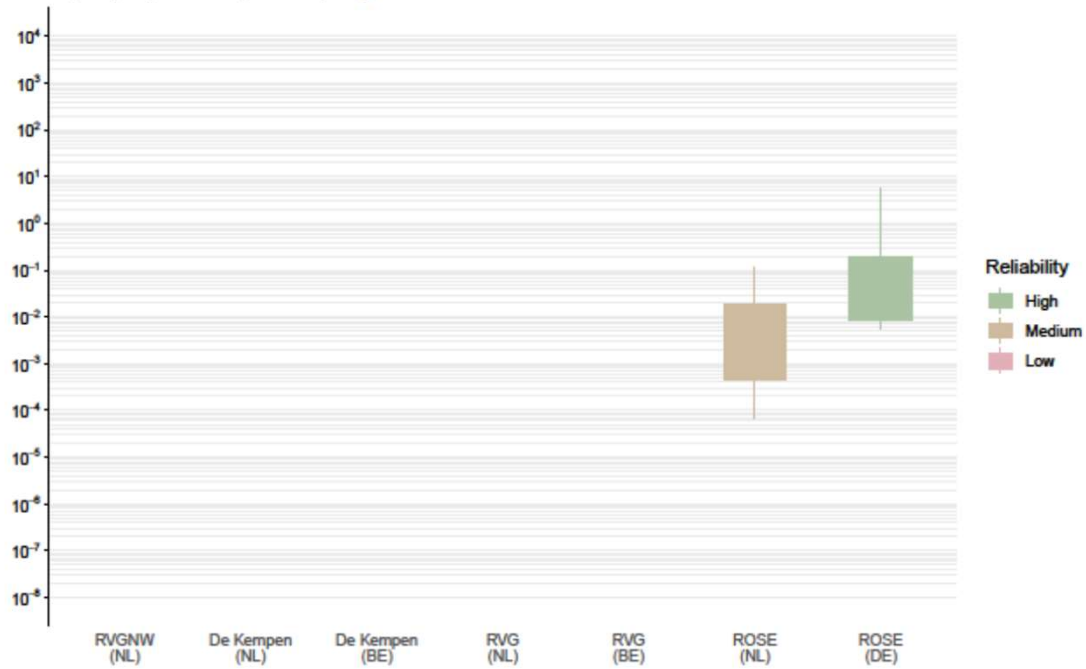
NL: Fm. van Boxtel, Lp. van Schimmert, 1e kleiige eenheid

BE:

DE: Löss

Hydraulic conductivity [m/d] of BXSCk1 by model area

Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- NL data, which are based on expert judgement, slightly lower than DE data. Reason could be the presence of a clay illuviation horizon. Should be investigated in following projects

Thickness [m] of BXSCk1 by model area



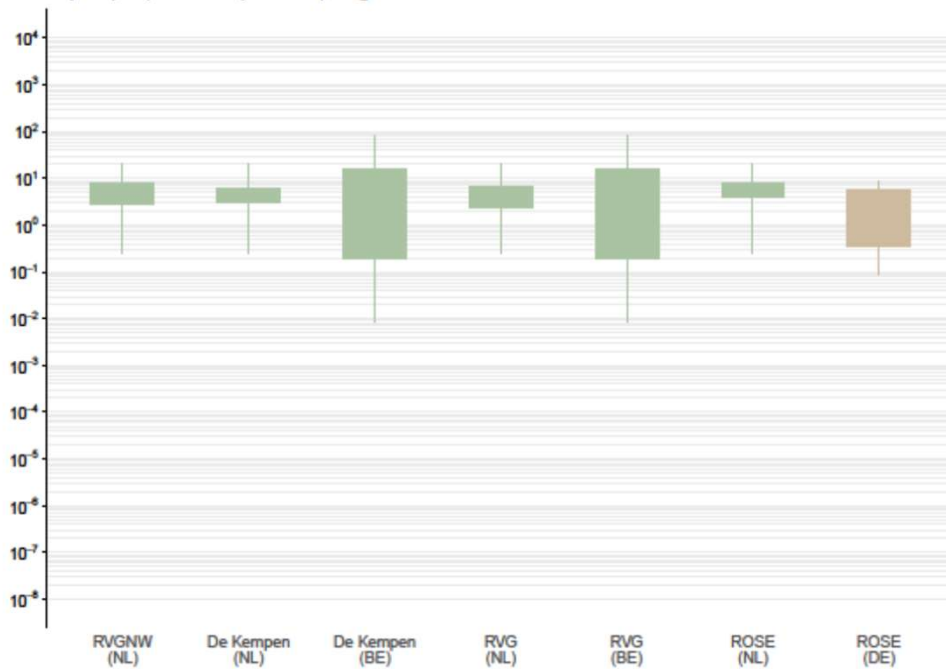
Unit BXz2

NL: Fm. van Boxtel, 2e zandige eenheid

BE: Cover layers

DE: Flugsand, Sandlöss

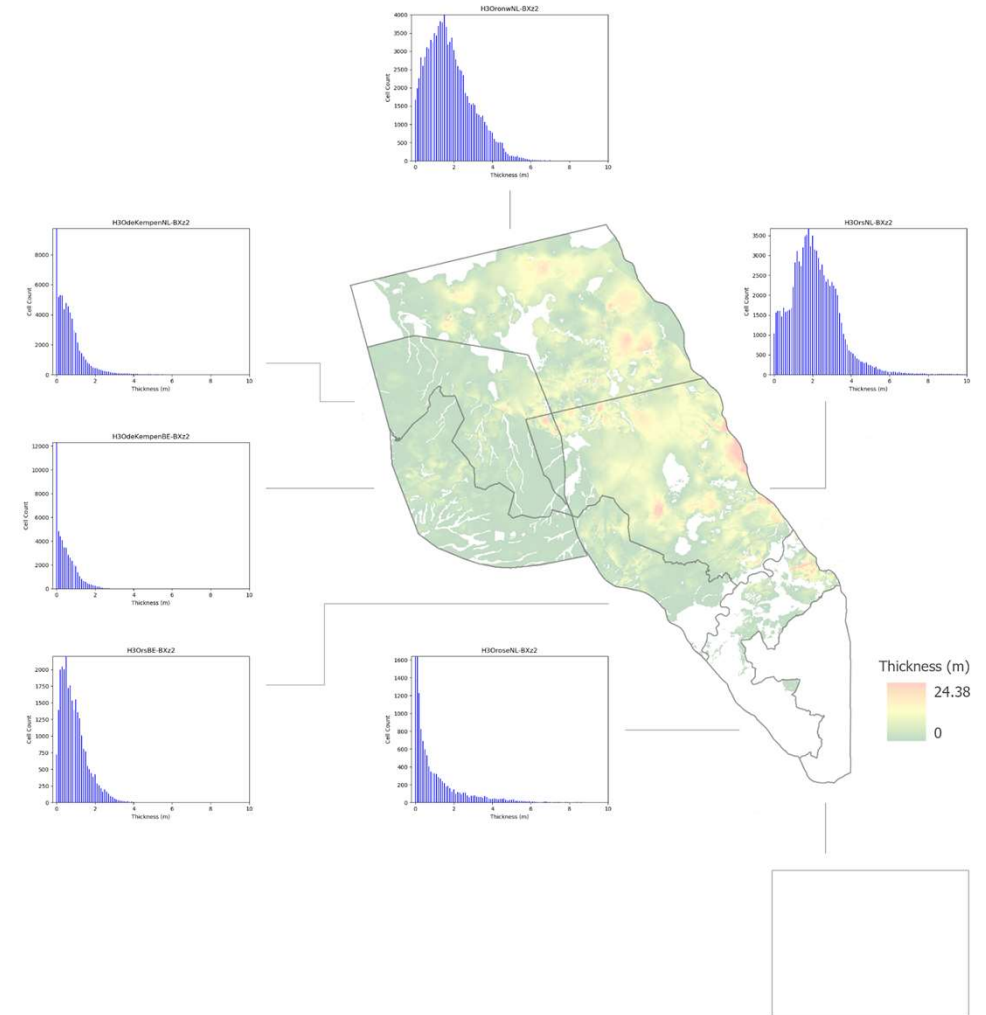
Hydraulic conductivity [m/d] of BXz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Lower data range for BE data not very clear: BE expert data based on 90% confidence interval of two inversely modelled pumping tests, the absolute range is based on small-scale permeameter tests of sediment-soil profiles and thus includes rather impermeable

Thickness [m] of BXz2 by model area



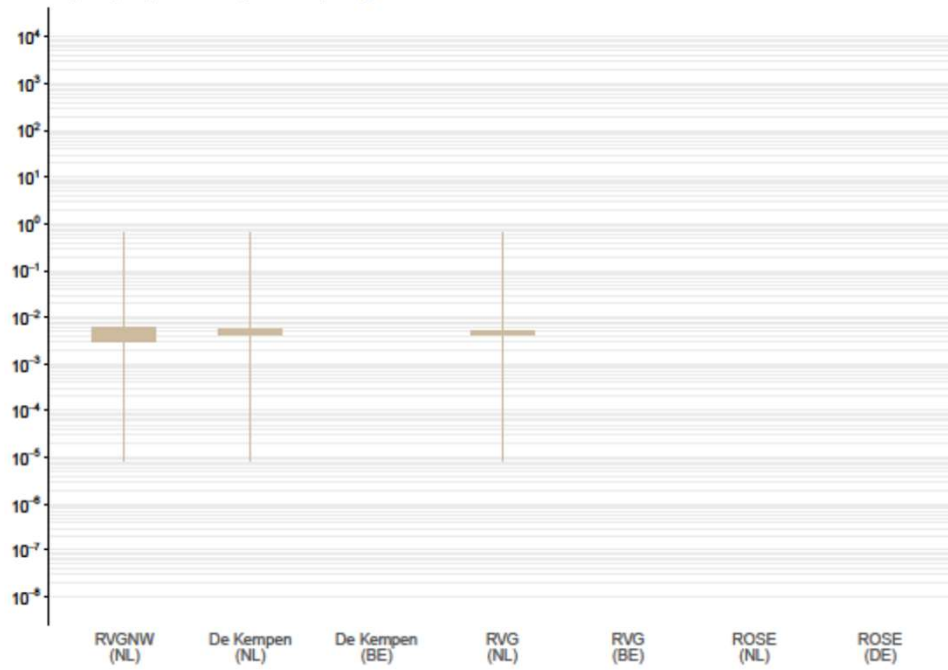
Unit BXLMk1

NL: Fm. van Boxtel, Lp. van Liempde, 1e kleiige eenheid

BE:

DE:

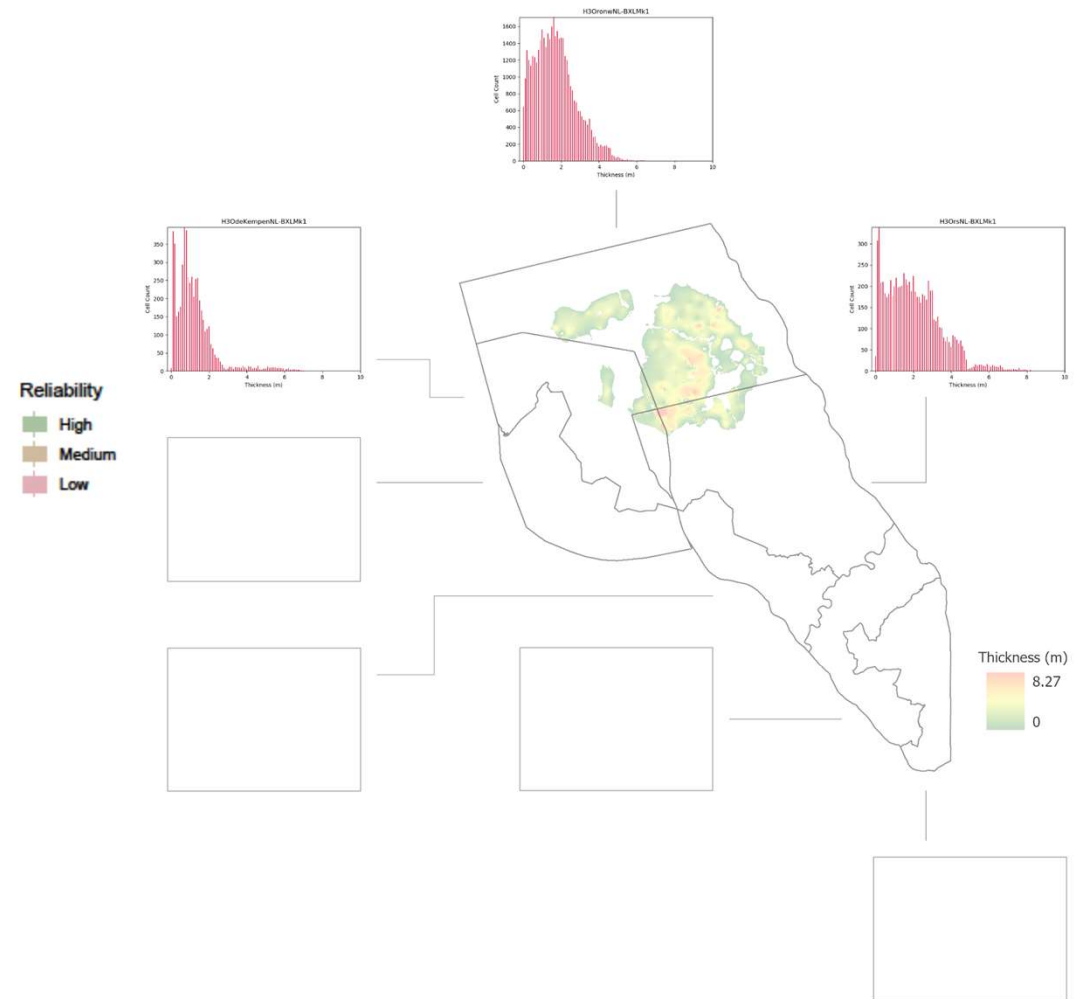
Hydraulic conductivity [m/d] of BXLMk1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of BXLMk1 by model area



Unit BXk1

NL: Fm. van Boxtel, 1e kleiige eenheid

BE: Cover layers

DE: Ablagerungen in Bach- und Flusstälern, Niederterrassen

Hydraulic conductivity [m/d] of BXk1 by model area

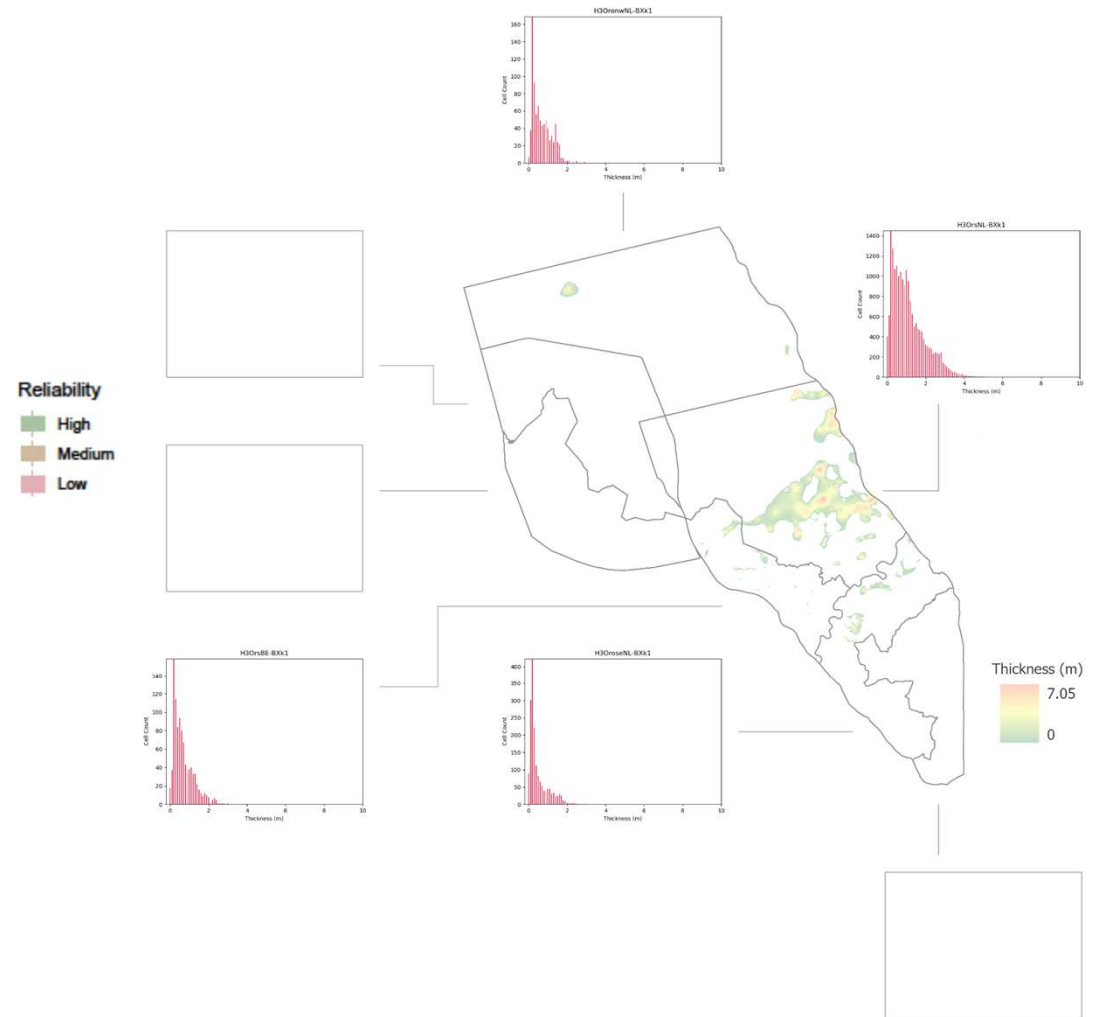
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- BE data are (very) low reliability data as they are based on different material in a different location (Meuse floodplain loam near Liège), but this is the closest analogue with data

Thickness [m] of BXk1 by model area



Unit BXz3

NL: Fm. van Boxtel, 3e zandige eenheid

BE: Cover layers

DE: Flugsand, Sandlöss

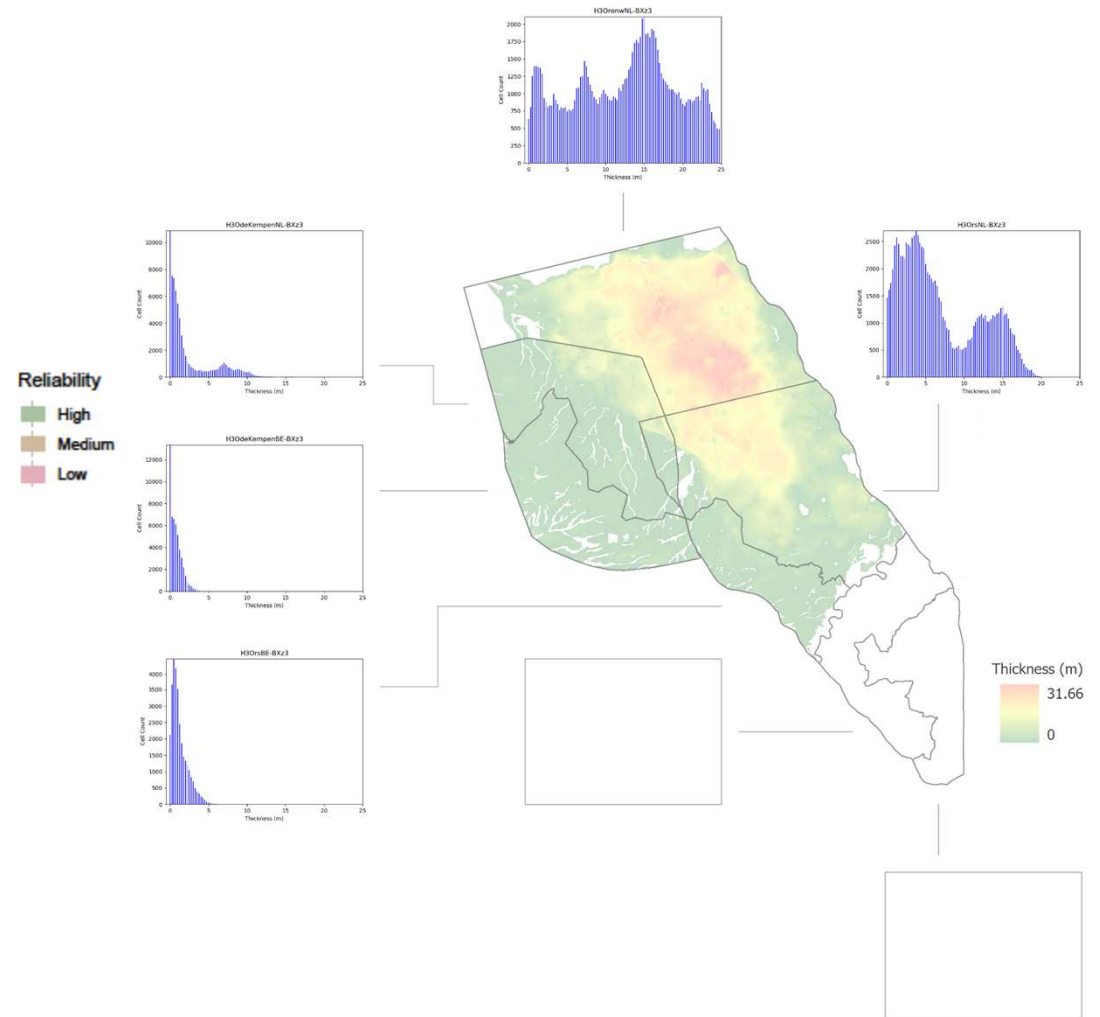
Hydraulic conductivity [m/d] of BXz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Lower data range for BE data not very clear: BE expert data based on 90% confidence interval of two inversely modelled pumping tests, the absolute range is based on small-scale permeameter tests of sediment-soil profiles and thus includes rather impermeable podzol B-horizon values

Thickness [m] of BXz3 by model area



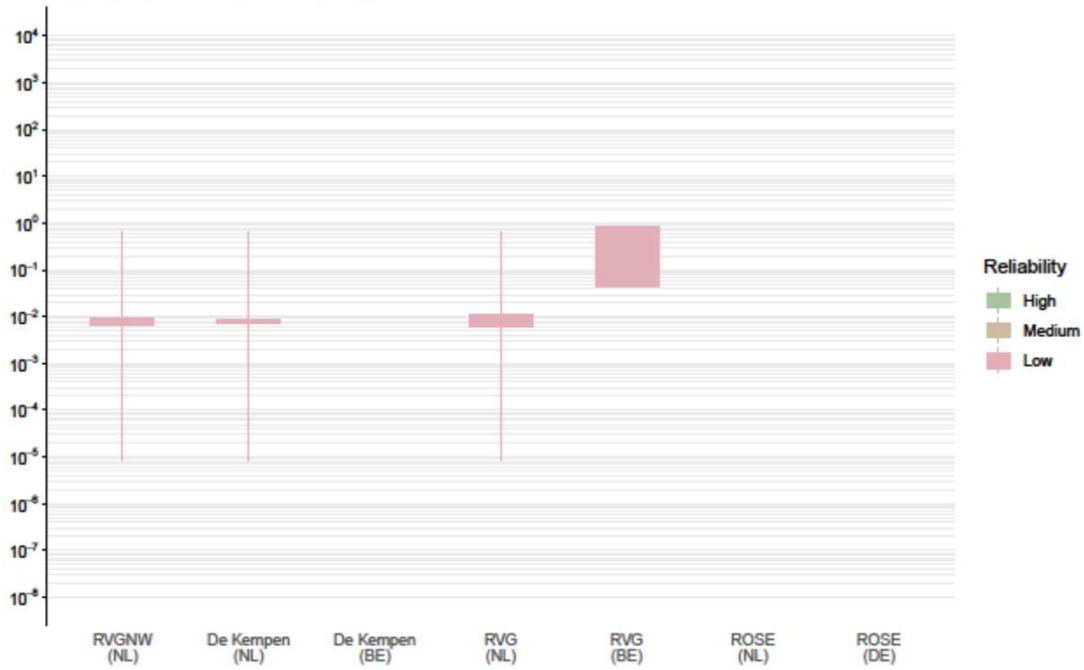
Unit BXk2

NL: Fm. van Boxtel, 2e kleiige eenheid

BE: Cover layers

DE:

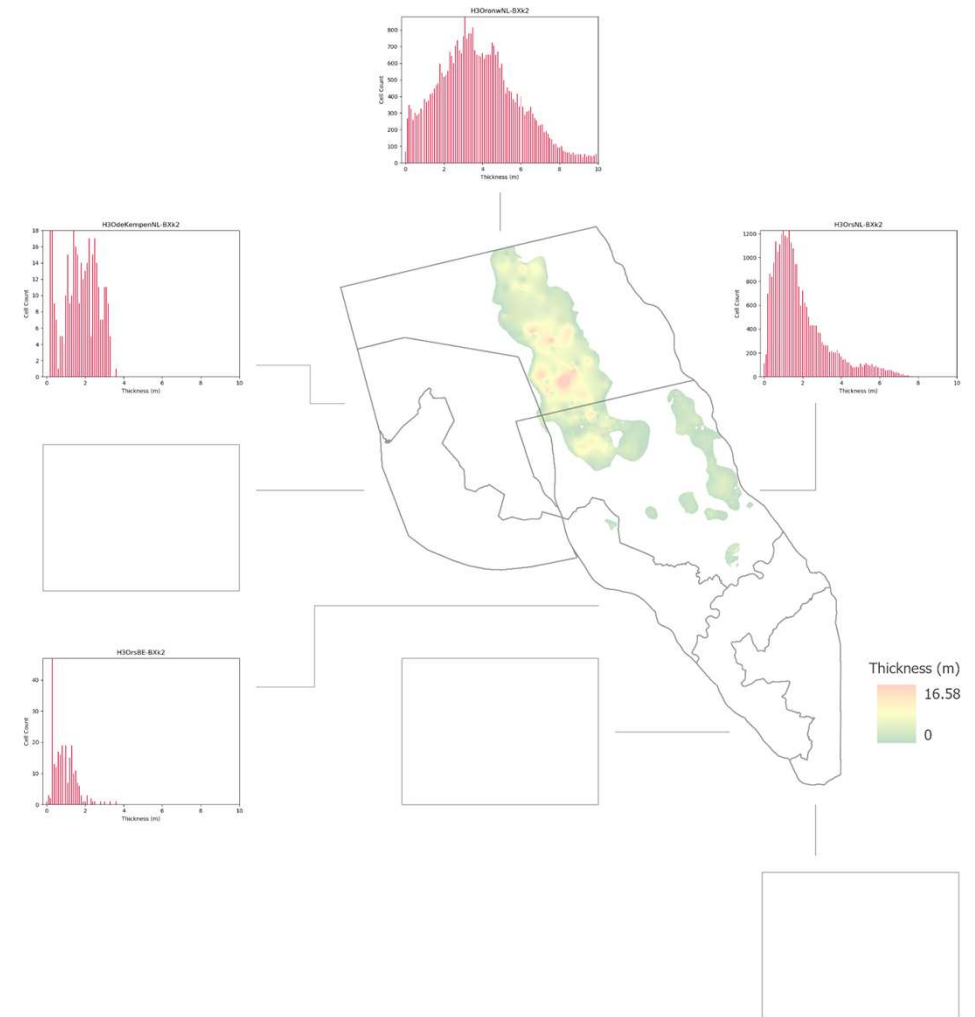
Hydraulic conductivity [m/d] of BXk2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- BE data are (very) low reliability data as they are based on different material in a different location (Meuse floodplain loam near Liège), but this is the closest analogue with data

Thickness [m] of BXk2 by model area



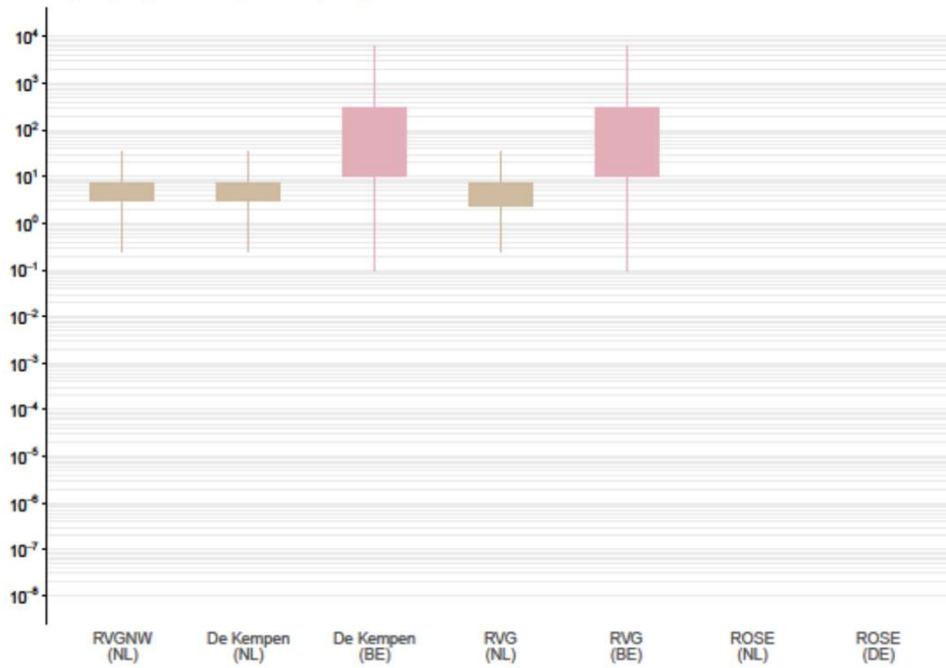
Unit BXz4

NL: Fm. van Boxtel, 4e zandige eenheid

BE: Cover layers

DE:

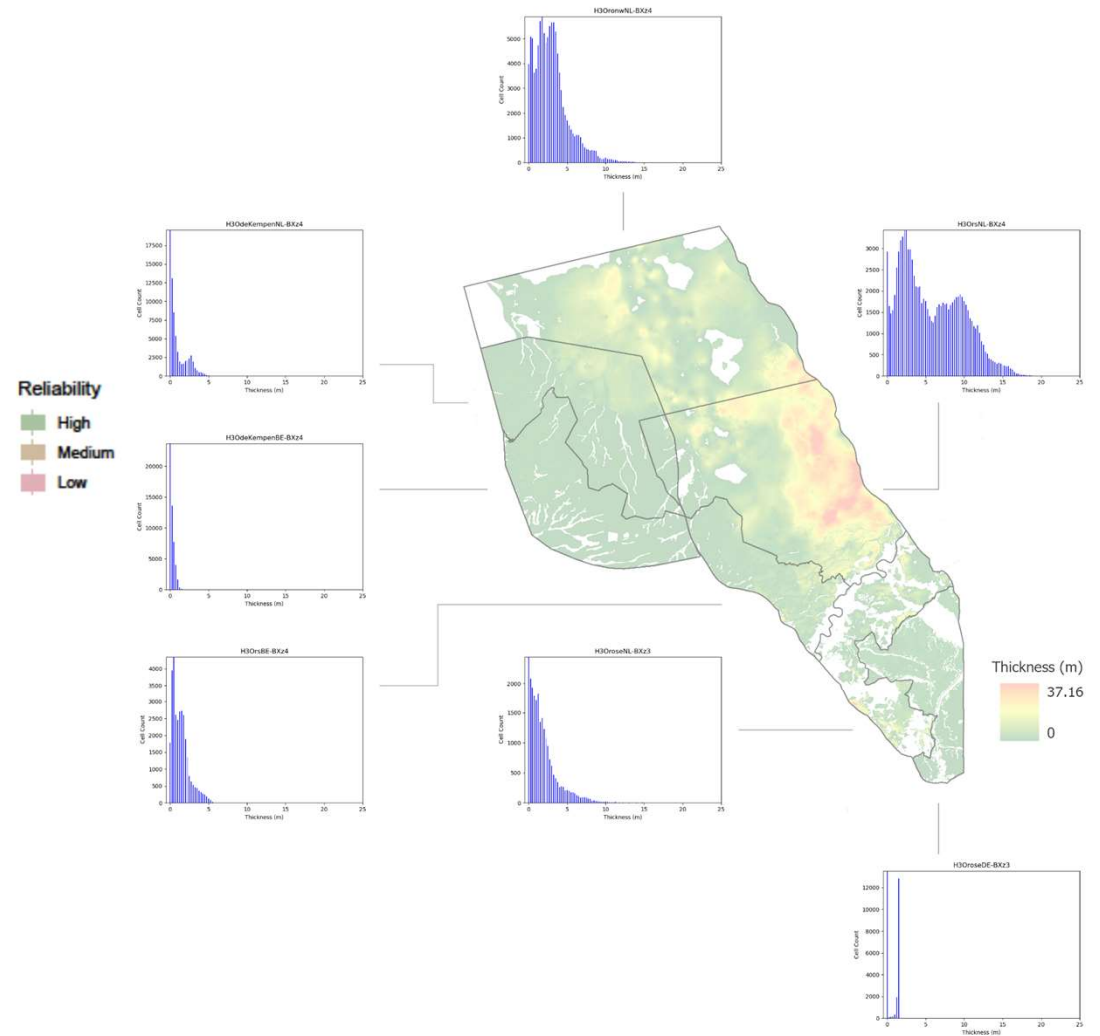
Hydraulic conductivity [m/d] of BXz4 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- This unit consists of reworked Meuse and Rhine deposits in BE, hence the larger K-values

Thickness [m] of BXz4 by model area



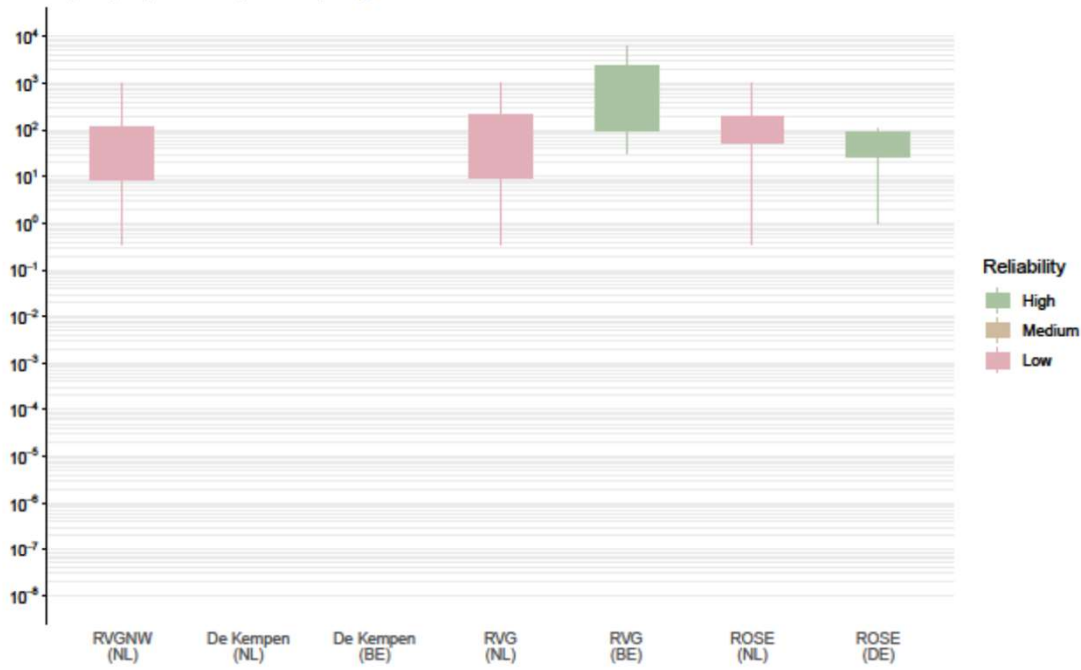
Unit BEz1

NL: Fm. van Beegden, 1e zandige eenheid

BE: Meuse deposits

DE: Mittelterrassen

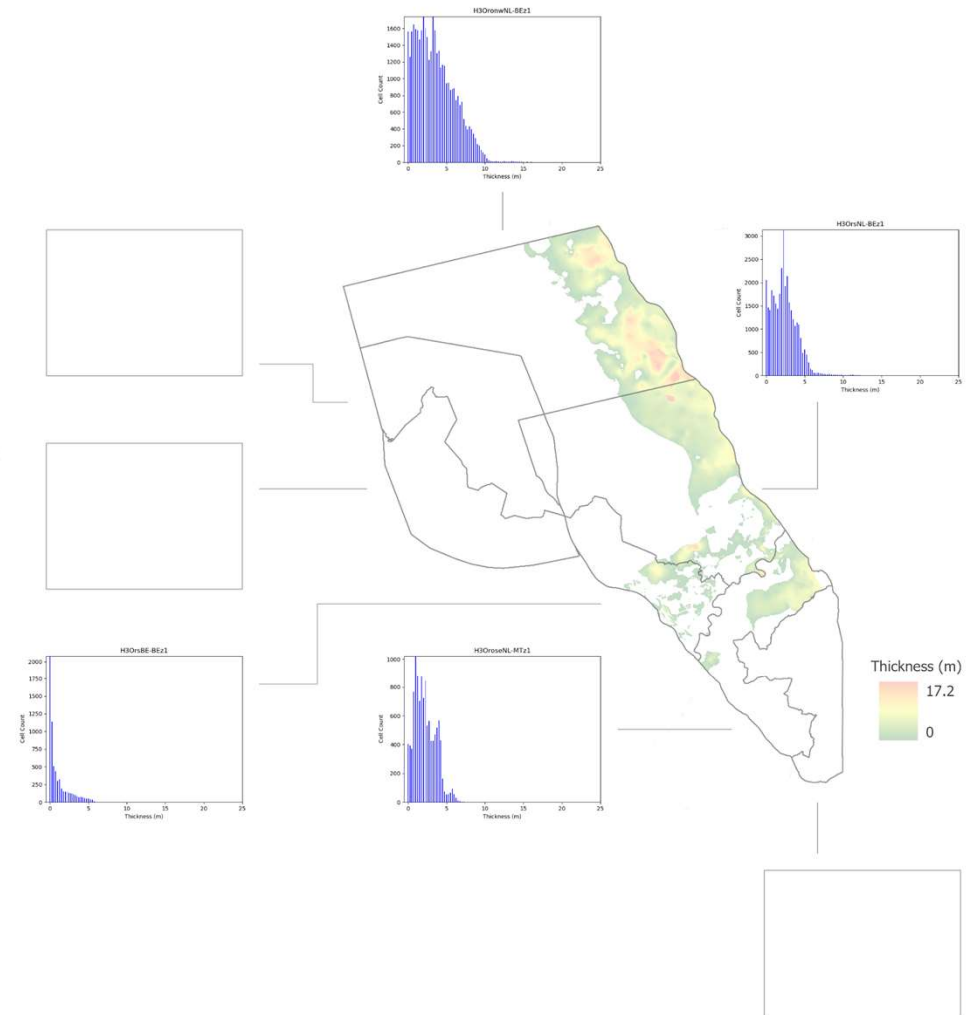
Hydraulic conductivity [m/d] of BEz1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Higher K-values for BE are not clear at present

Thickness [m] of BEz1 by model area



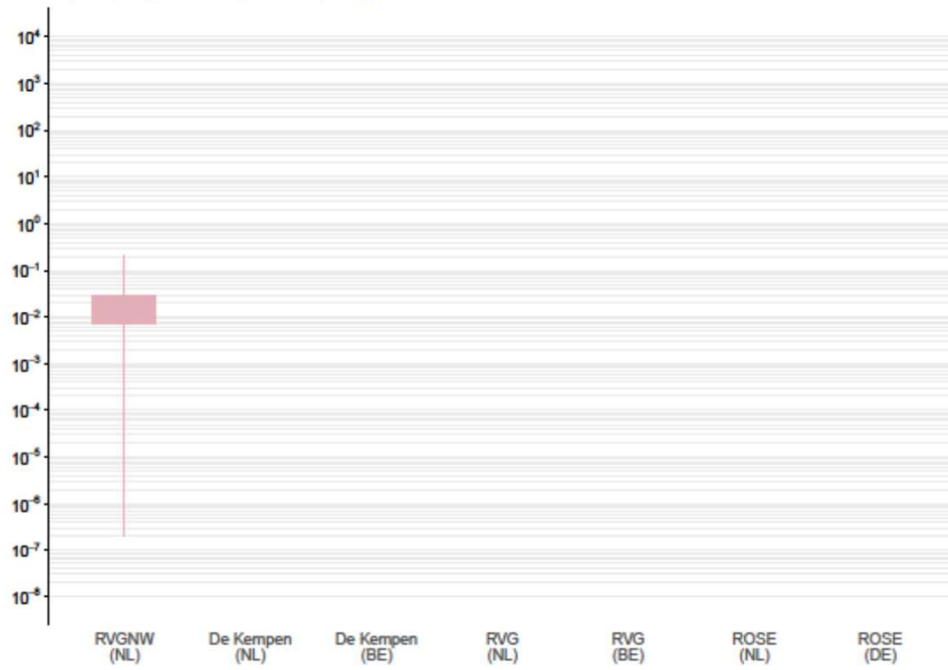
Unit BEROk1

NL: Fm. van Beegden, Lp. van Rosmalen, 1e kleiige eenheid

BE:

DE:

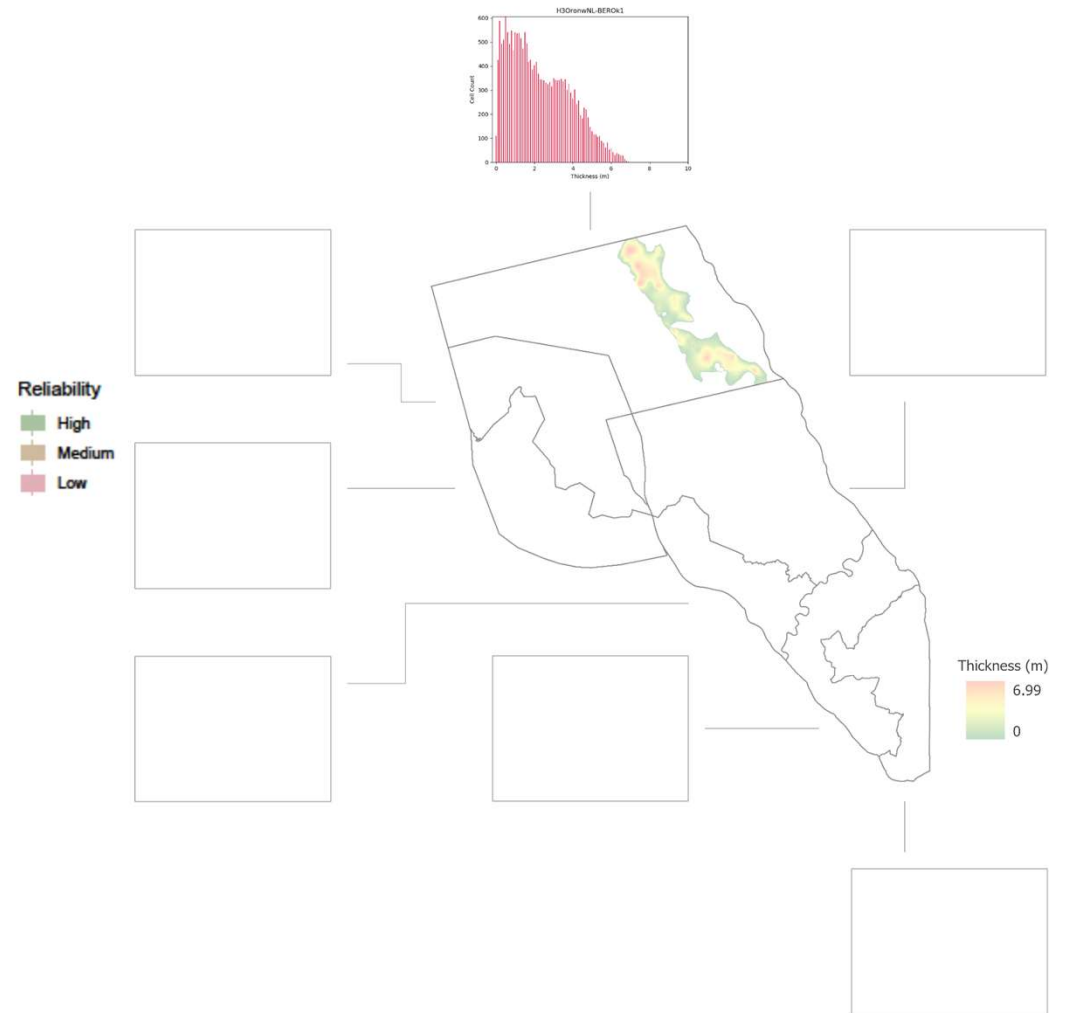
Hydraulic conductivity [m/d] of BEROk1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of BEROk1 by model area



Unit BEk1

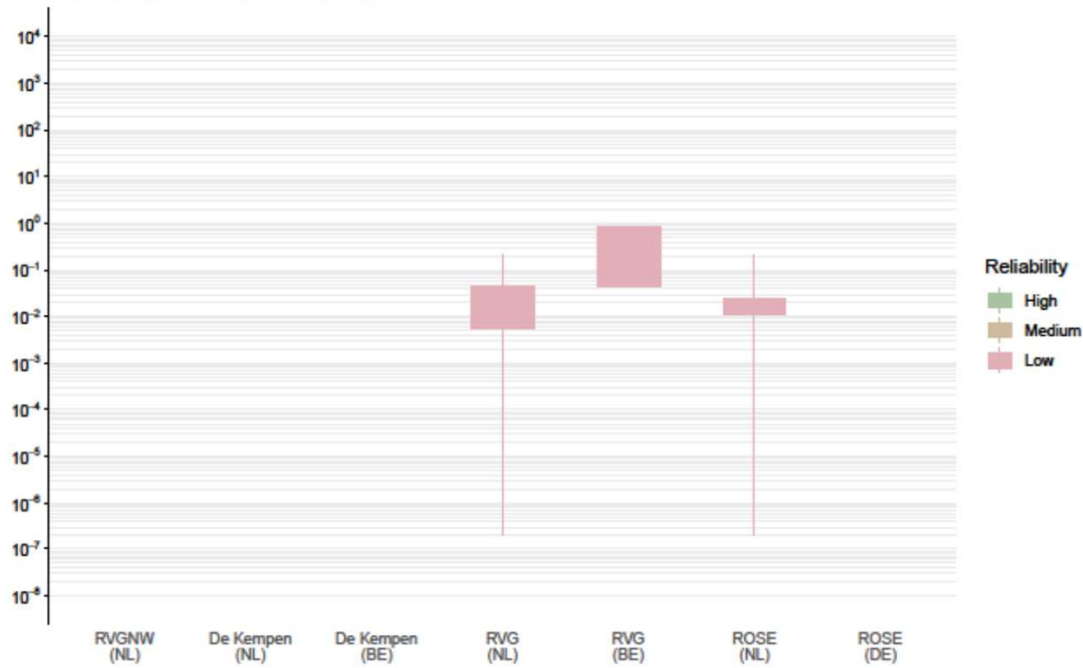
NL: Fm. van Beegden, 1e kleiige eenheid

BE: Cover layers / Meuse deposits

DE:

Hydraulic conductivity [m/d] of BEk1 by model area

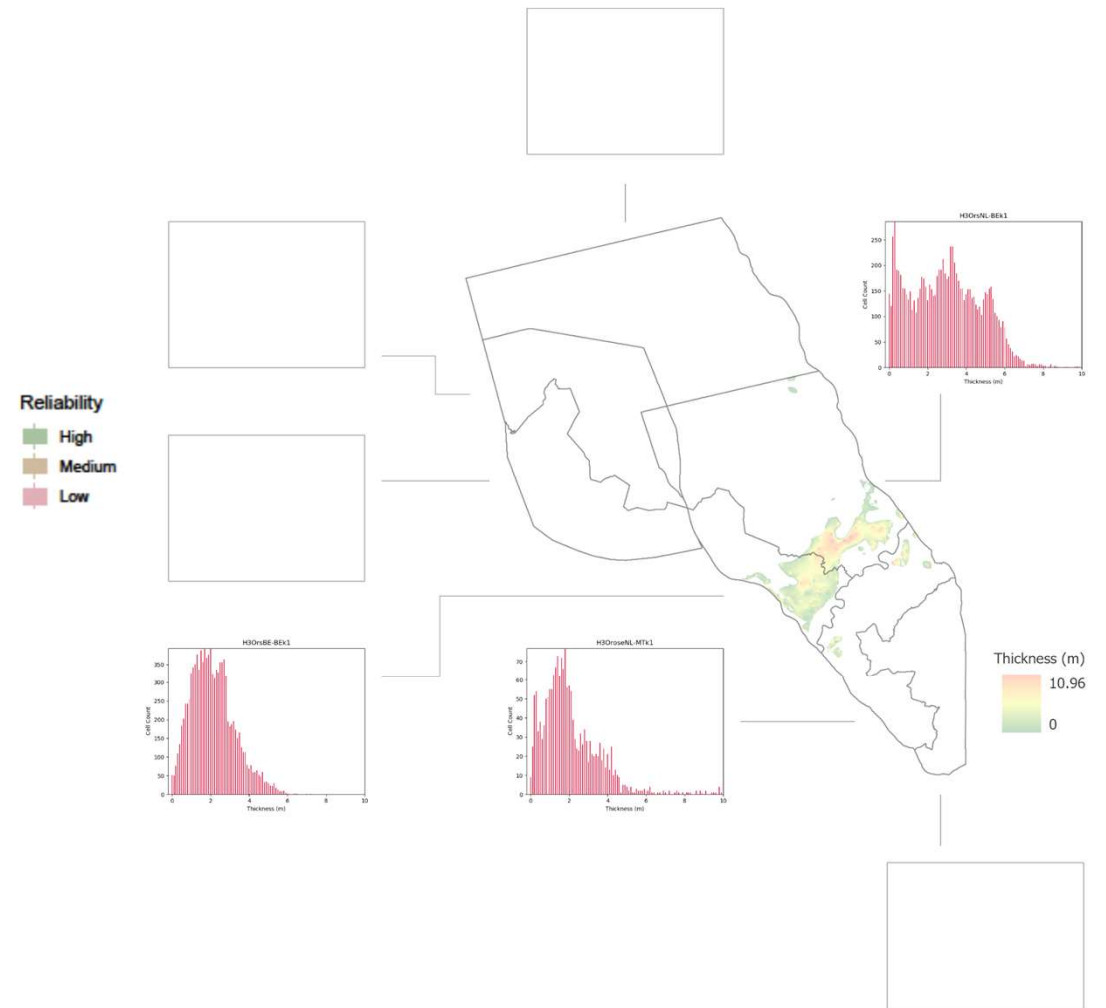
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- BE data based on a study of Meuse floodloam near Liège, hence (very) low reliability given the distance (different grain sizes may be involved)

Thickness [m] of BEk1 by model area



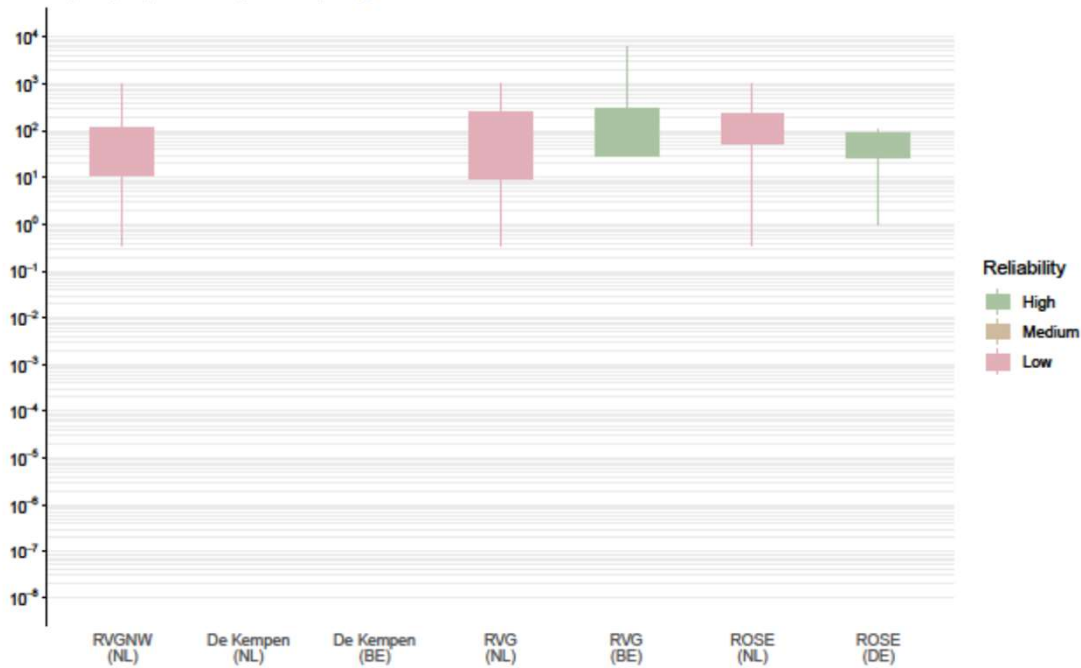
Unit BE2

NL: Fm. van Beegden, 2e zandige eenheid

BE: Meuse deposits

DE: Mittelterrassen

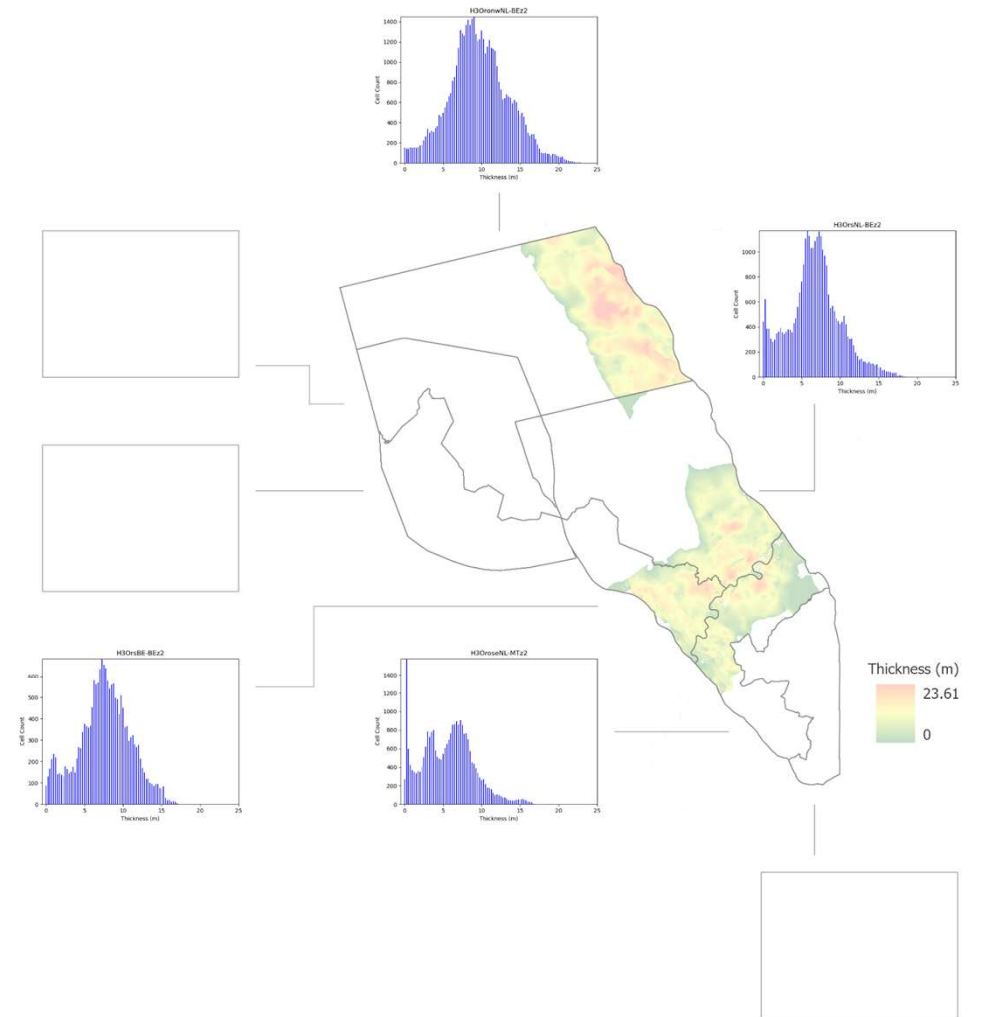
Hydraulic conductivity [m/d] of BE2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement, absolute maximum for BE is the largest ever measured value for Meuse gravel, and may be too high for regional studies

Thickness [m] of BE2 by model area



Unit BEk2

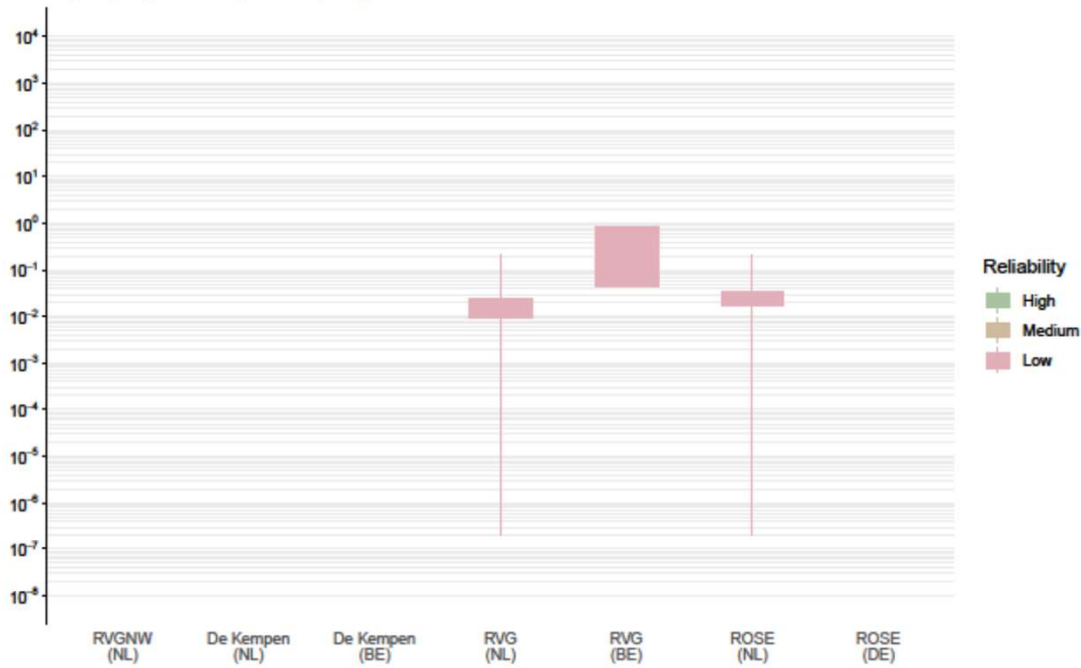
NL: Fm. van Beegden, 1e kleiige eenheid

BE: Cover layers / Meuse deposits

DE:

Hydraulic conductivity [m/d] of BEk2 by model area

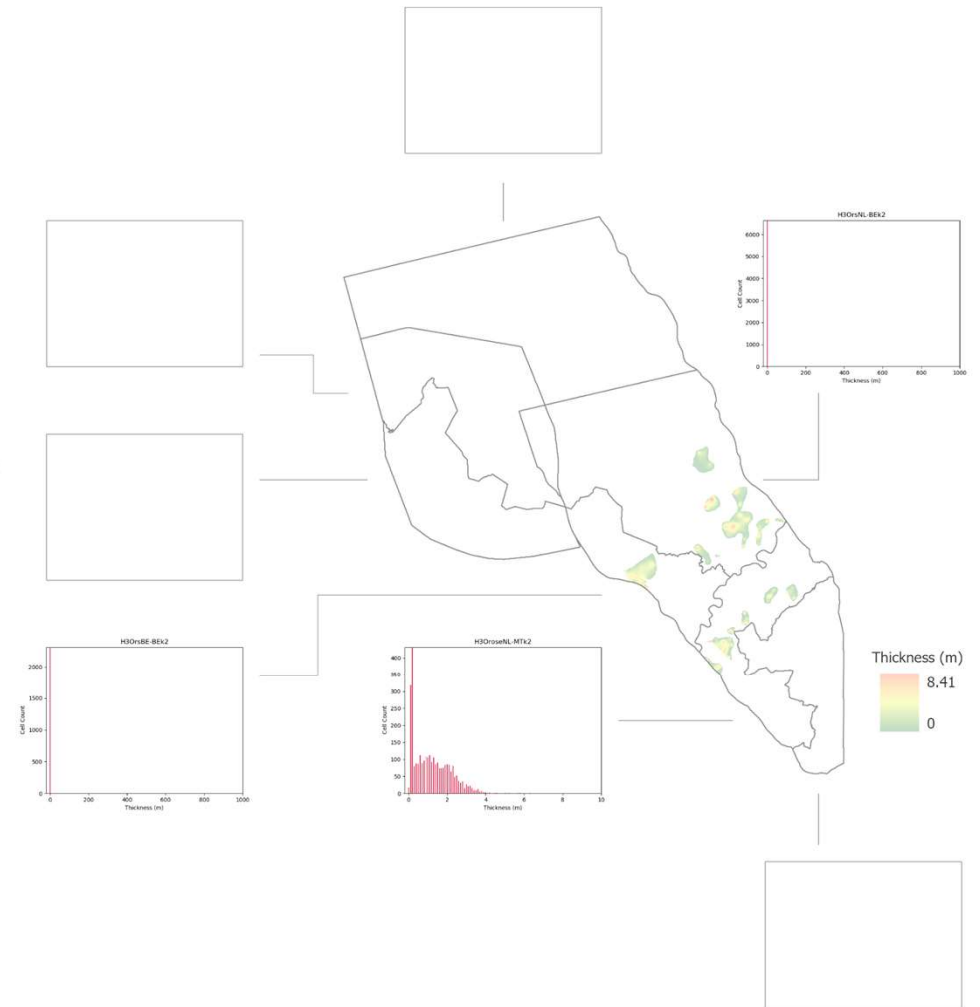
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- BE data based on a study of Meuse floodloam near Liège, hence (very) low reliability given the distance (different grain sizes may be involved)

Thickness [m] of BEk2 by model area



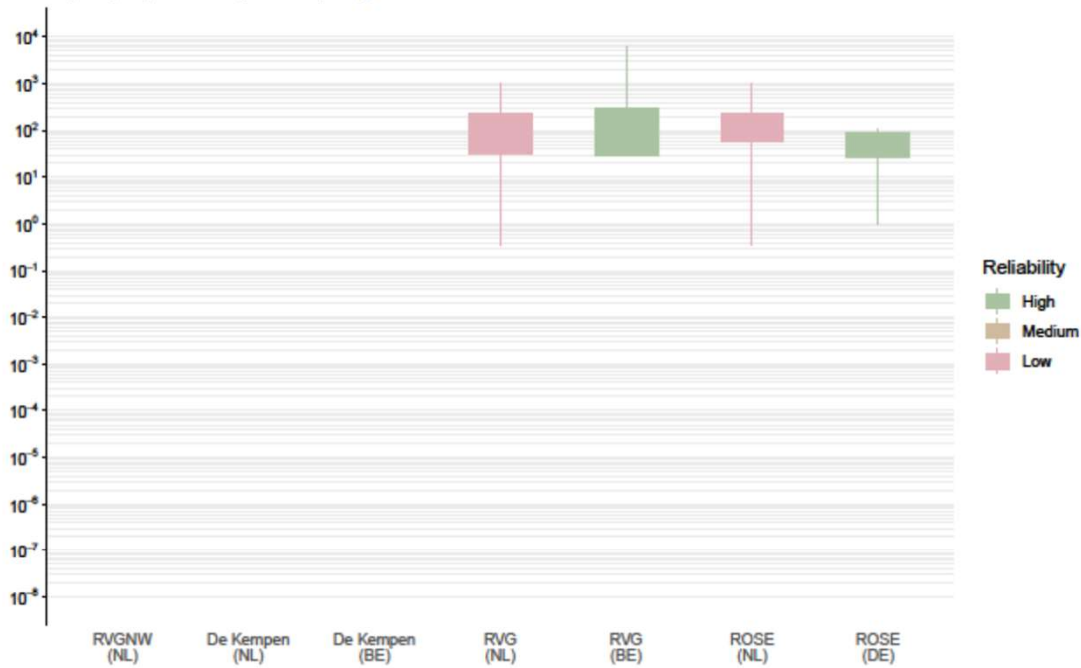
Unit BEz3

NL: Fm. van Beegden, 3e zandige eenheid

BE: Meuse deposits

DE: Mittelterrassen

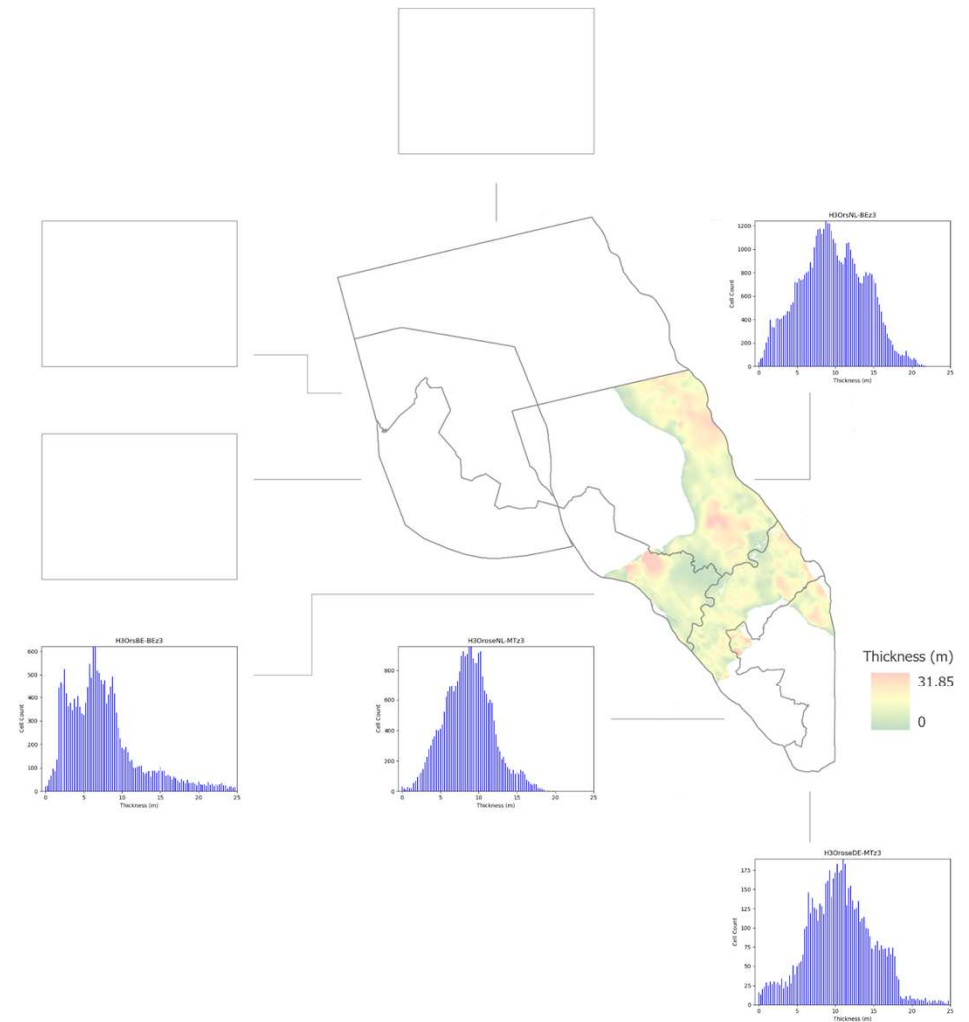
Hydraulic conductivity [m/d] of BEz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement, absolute maximum for BE is the largest ever measured value for Meuse gravel, and may be too high for regional studies

Thickness [m] of BEz3 by model area



Unit STz1

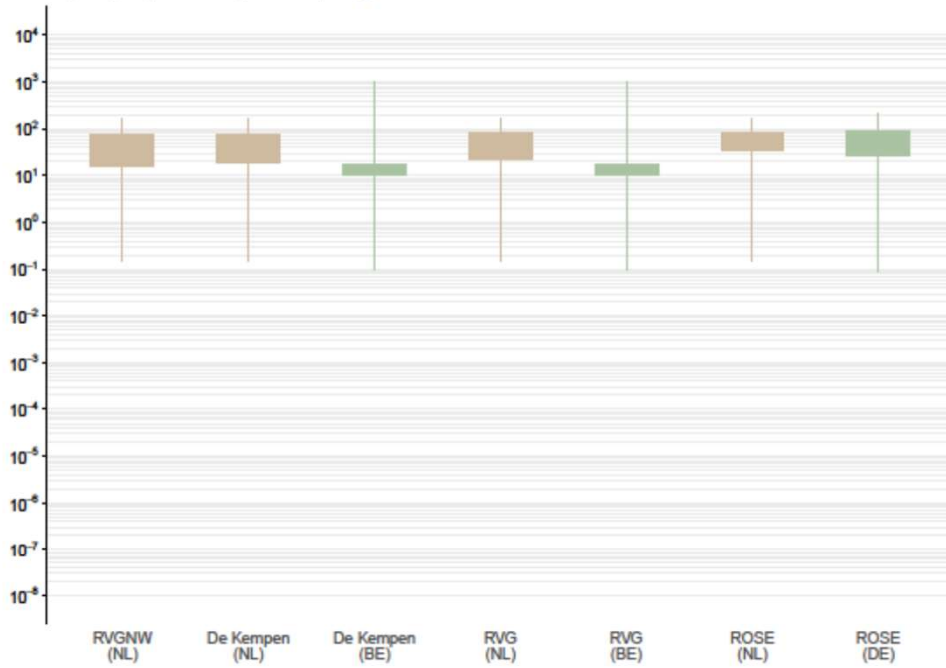
NL: Fm. van Sterksel, 1e zandige eenheid

BE: Rhine deposits

DE: Jüngere Hauptterrassen

Hydraulic conductivity [m/d] of STz1 by model area

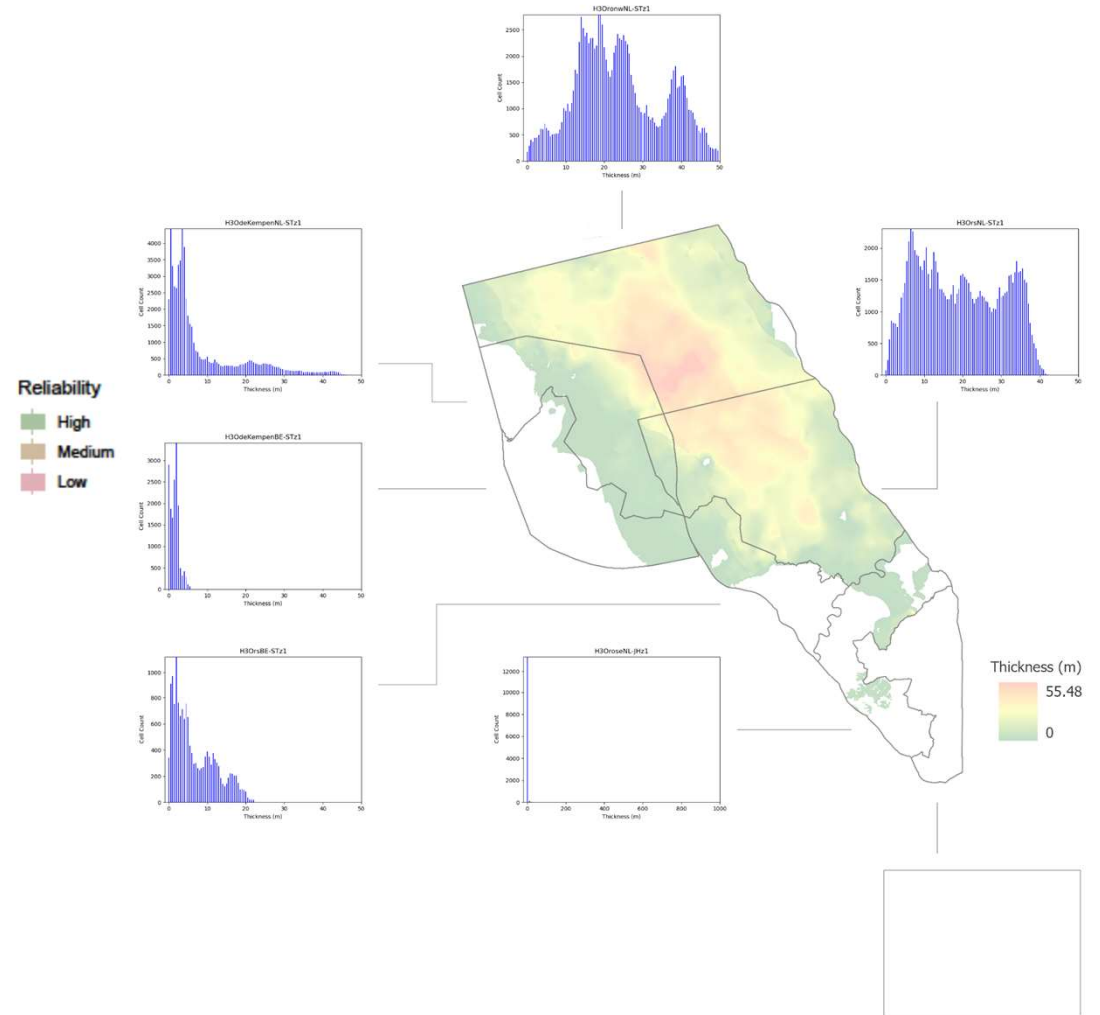
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement, BE expert range based on rather local data while absolute range reflects small-scale air permeameter tests on outcrops, hence a slightly larger range

Thickness [m] of STz1 by model area



Unit STk1

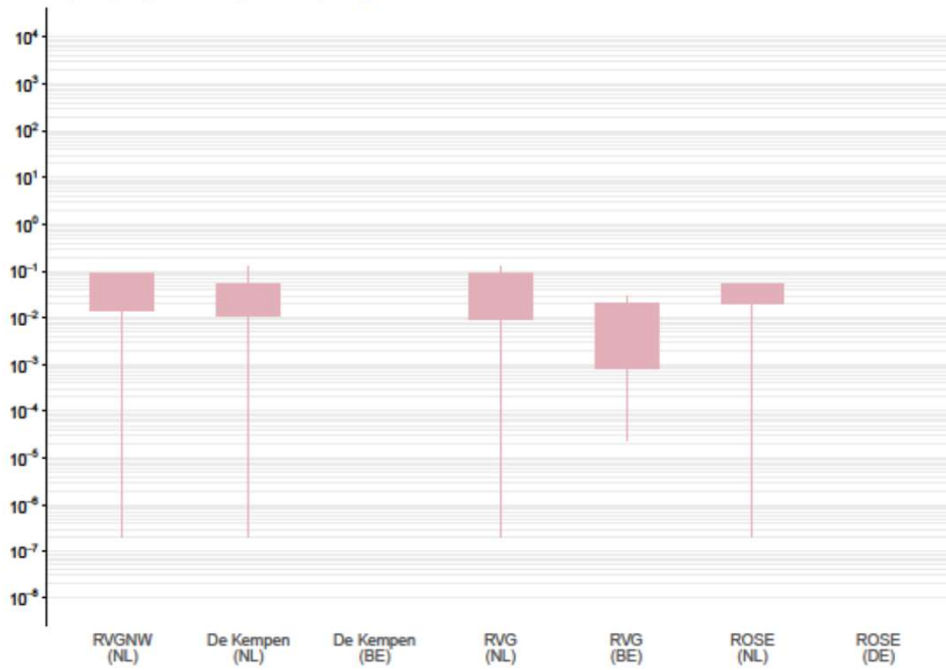
NL: Fm. van Sterksel, 1e kleiige eenheid

BE: Rhine deposits

DE: Jüngere Hauptterrassen

Hydraulic conductivity [m/d] of STk1 by model area

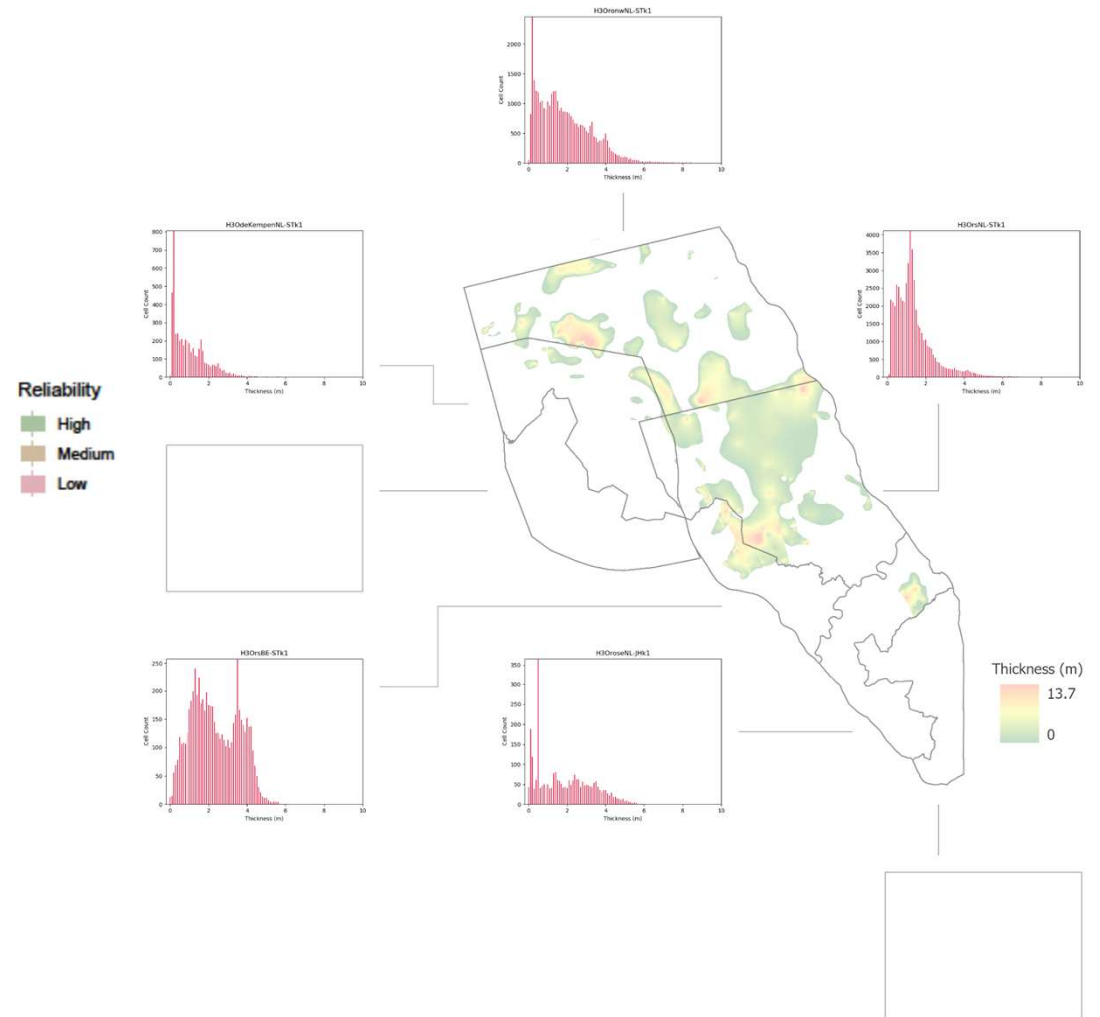
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Absolute range NL data based on permeameter tests on small soil samples from fluvial Urk Formation not present in the project area. BE data are taken from Kik2 as analogue, which may explain the slightly different K-values.

Thickness [m] of STk1 by model area



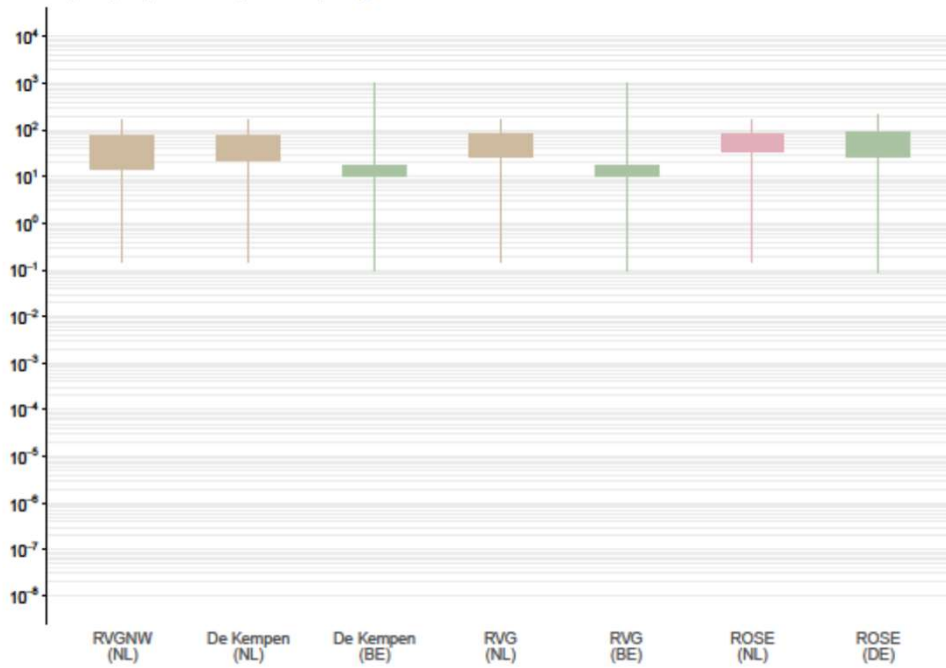
Unit STz2

NL: Fm. van Sterksel, 2e zandige eenheid

BE: Rhine deposits

DE: Jüngere Hauptterrassen

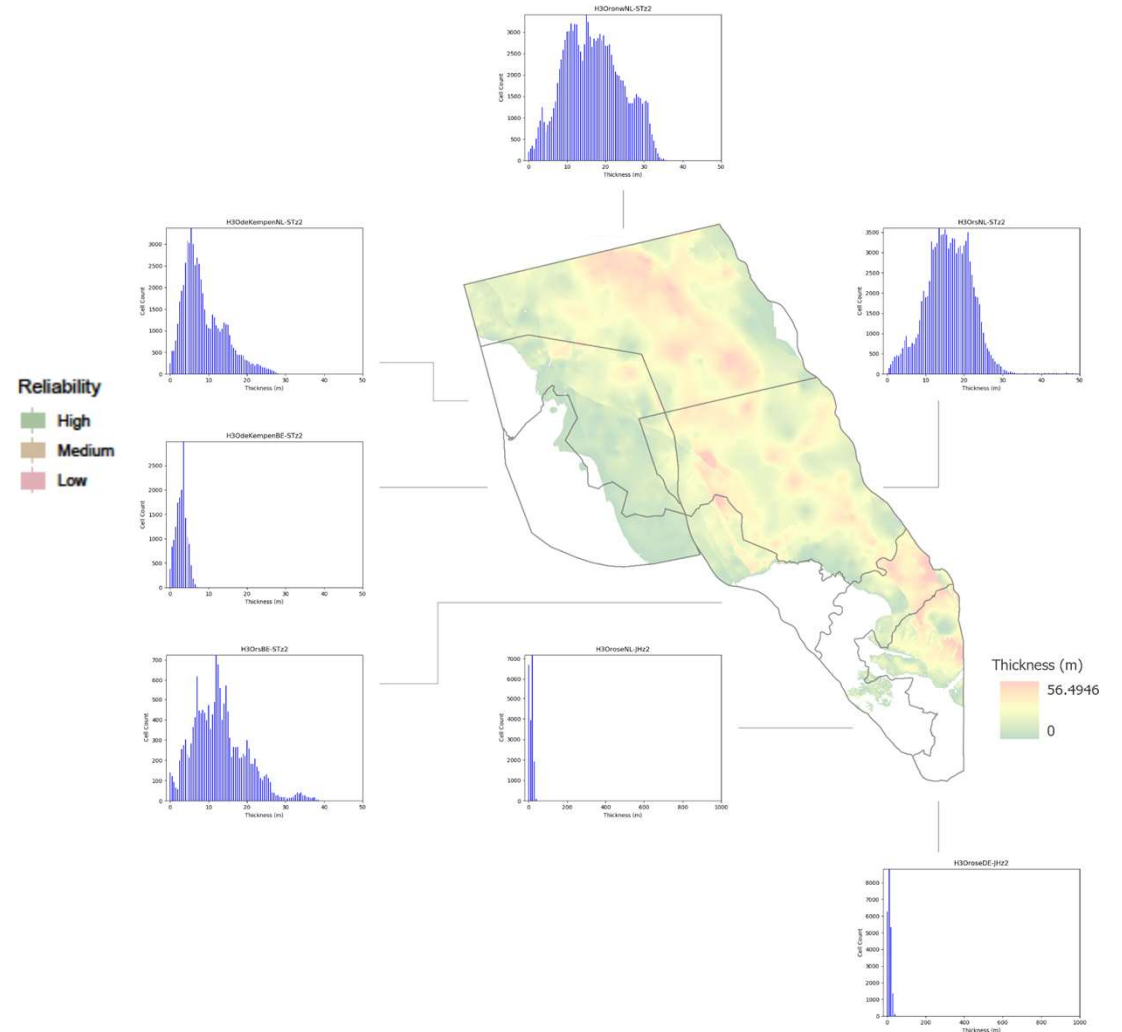
Hydraulic conductivity [m/d] of STz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement, BE expert range based on rather local data while absolute range reflects small-scale air permeameter tests on outcrops, hence a slightly larger range

Thickness [m] of STz2 by model area



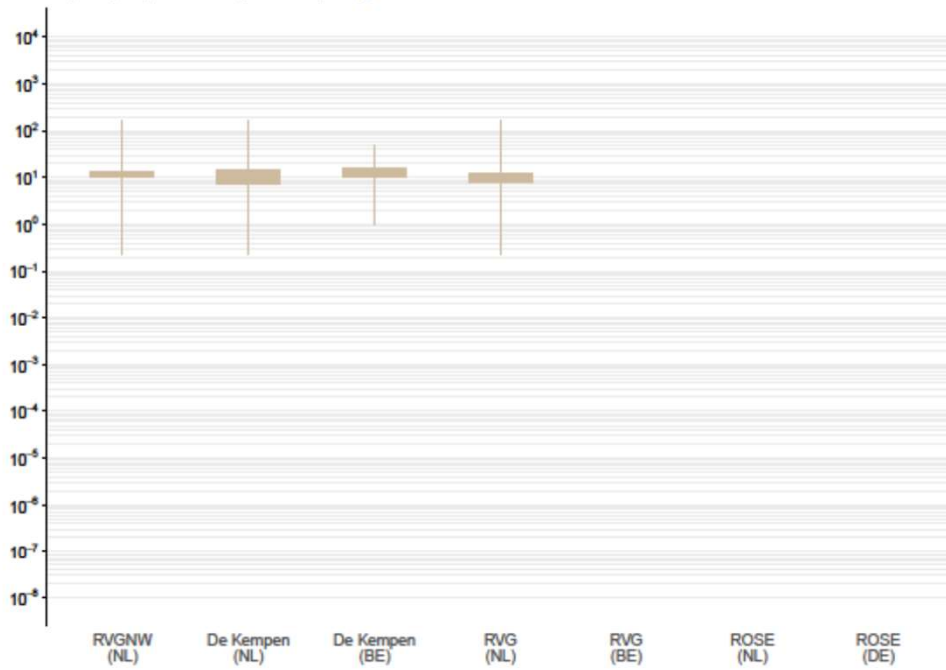
Unit SYz1

NL: Fm. van Stramproy, 1e zandige eenheid

BE: Mol Sands, Roer Valley Graben sediments north of the Feldbiss

DE:

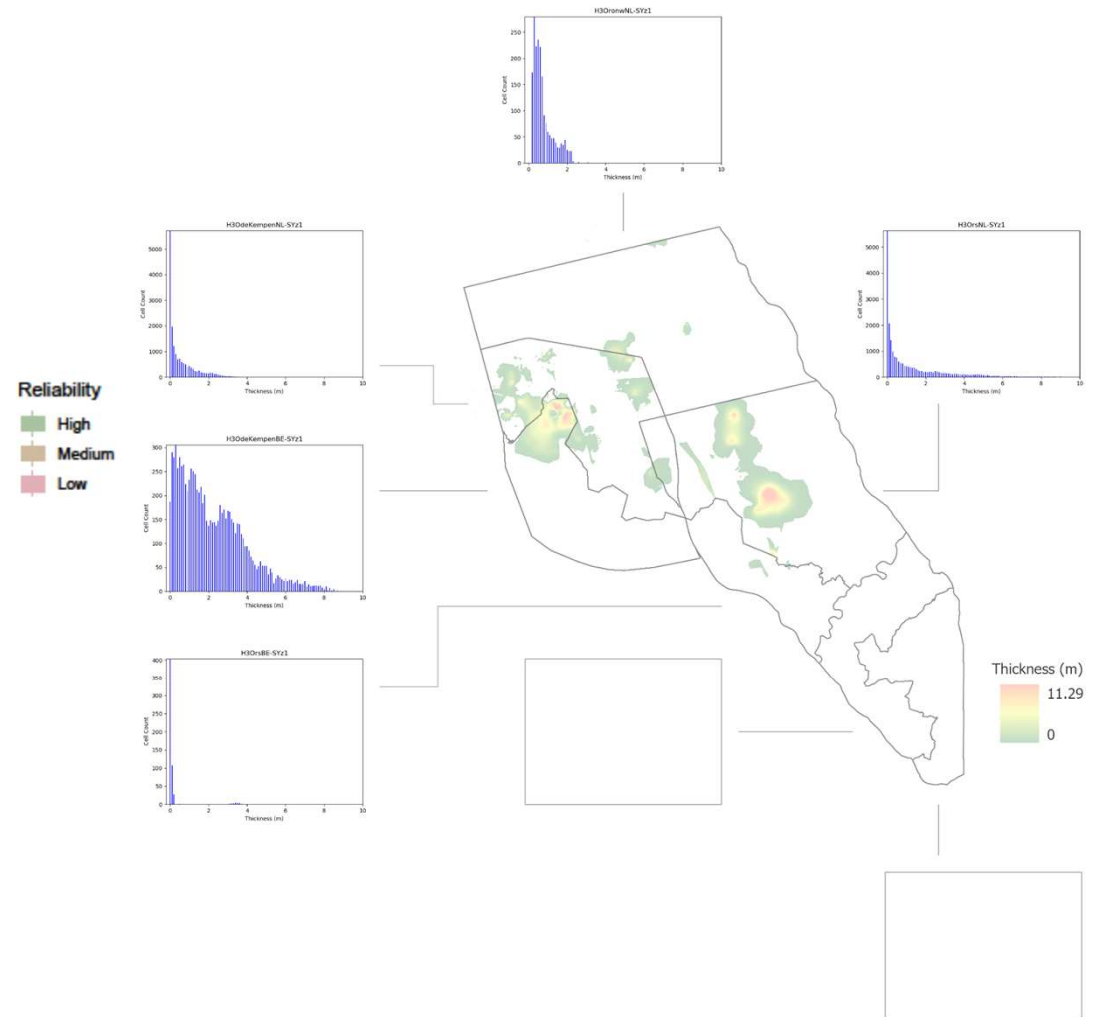
Hydraulic conductivity [m/d] of SYz1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and BE data

Thickness [m] of SYz1 by model area



Unit SYk1

NL: Fm. van Stramproy, 1e kleiige eenheid

BE:

DE:

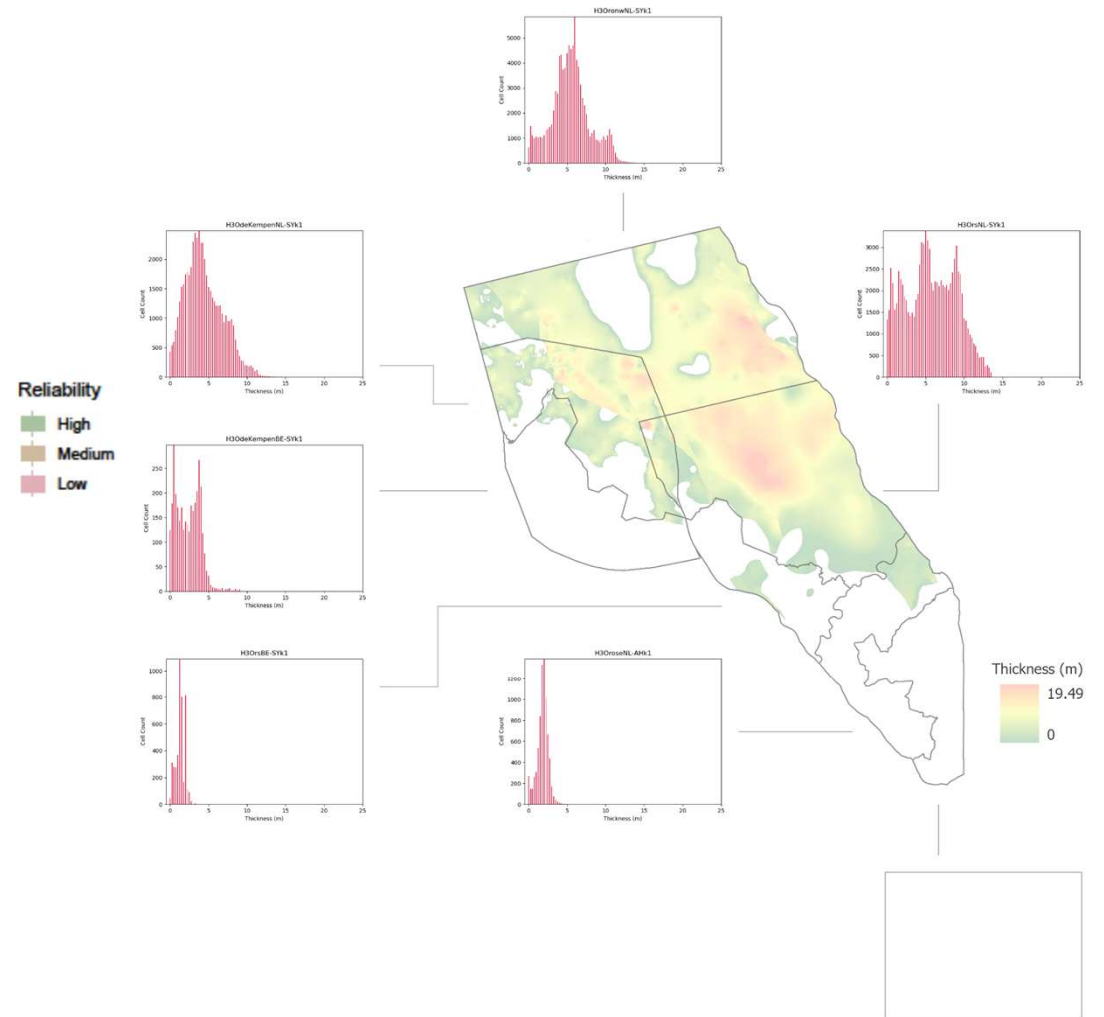
Hydraulic conductivity [m/d] of SYk1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data. Absolute range NL data based on permeameter tests on small soil samples from fluvial Urk Formation not present in the project area.

Thickness [m] of SYk1 by model area



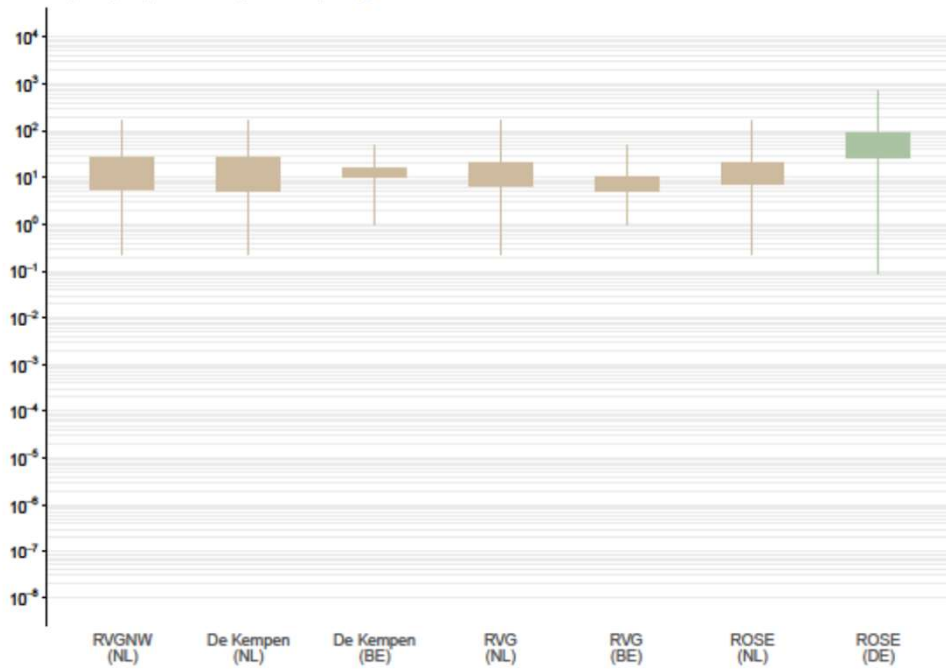
Unit SYz2

NL: Fm. van Stramproy, 2e zandige eenheid

BE: Mol Sands, Sandy unit above upper Brunssum Clay

DE: Ältere Hauptterrassen

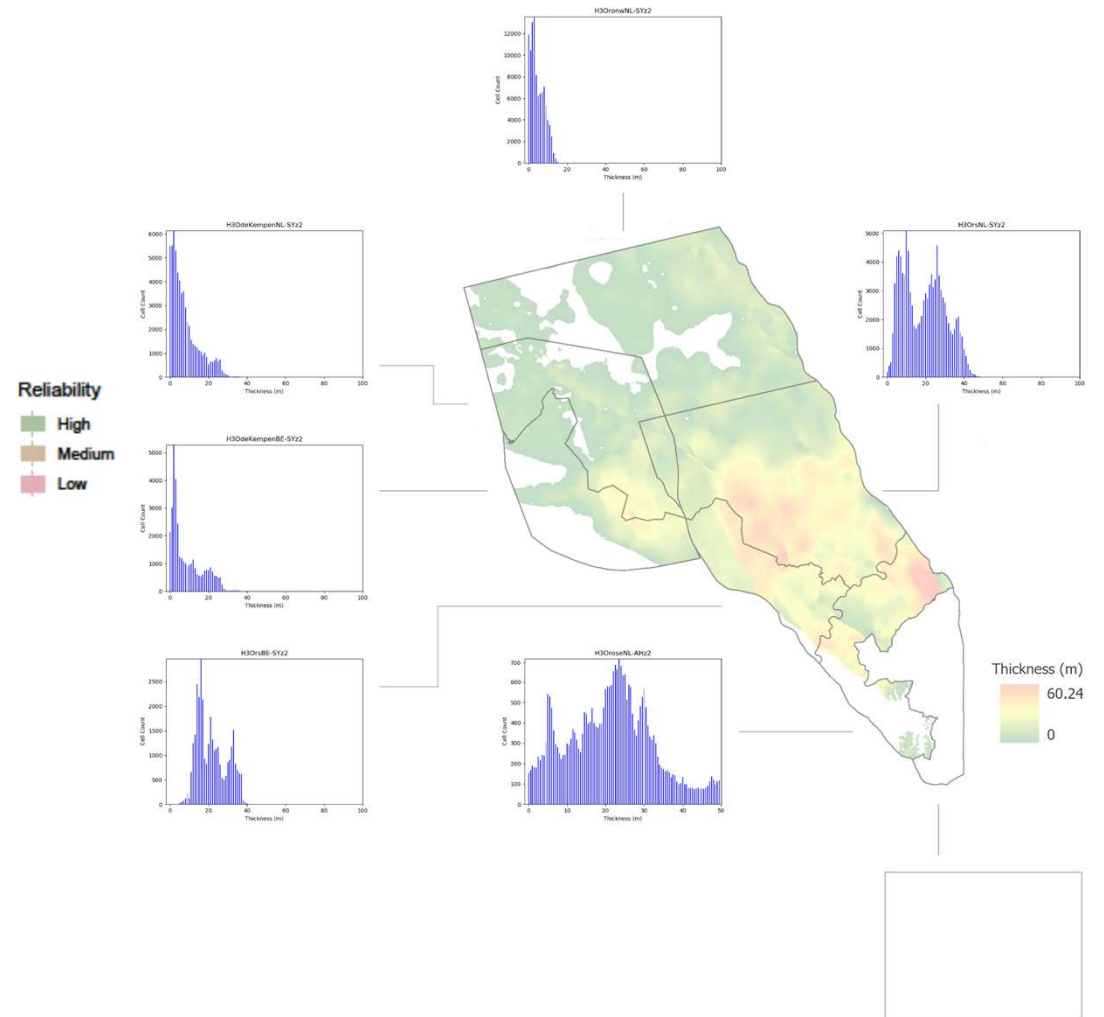
Hydraulic conductivity [m/d] of SYz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement, DE data slightly larger due to coarser grain size (closer to the source)

Thickness [m] of SYz2 by model area



Unit SYk2

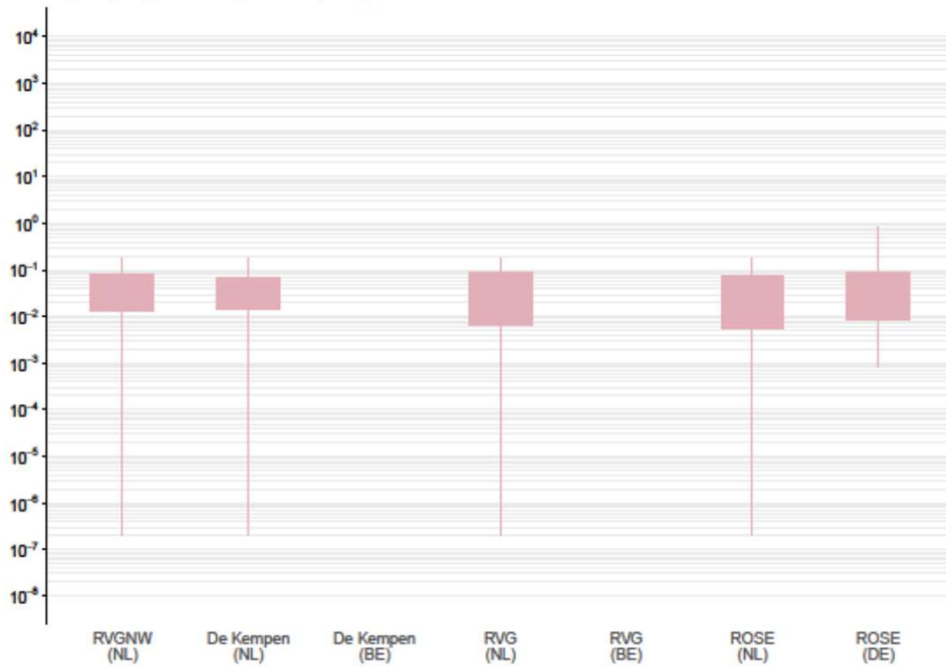
NL: Fm. van Stramproy, 2e kleiige eenheid

BE:

DE: Ältere Hauptterrassen

Hydraulic conductivity [m/d] of SYk2 by model area

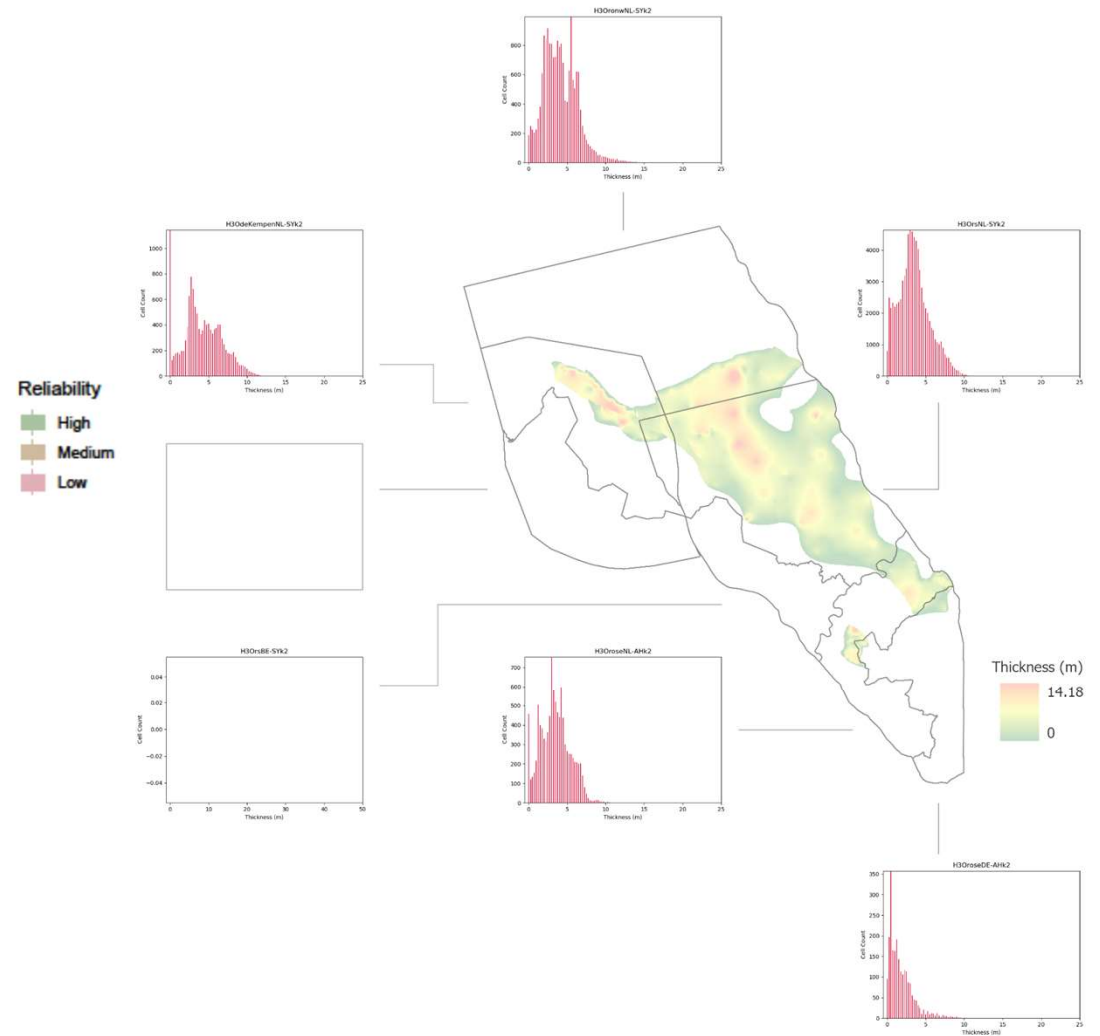
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and DE data, very low NL absolute minimum is based on permeameter tests on small soil samples from fluvial Urk Formation not present in the project area.

Thickness [m] of SYk2 by model area



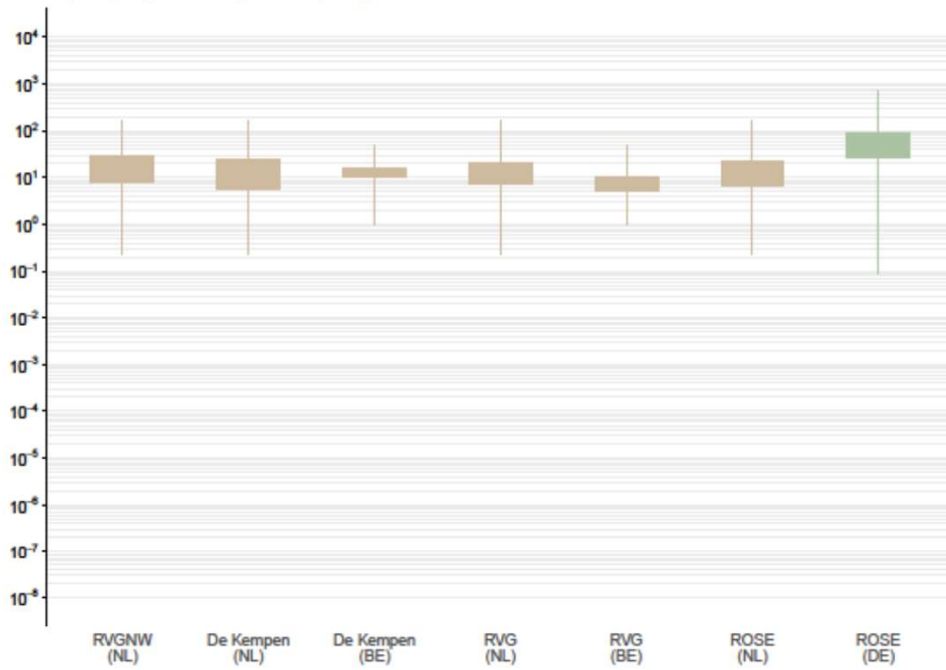
Unit SYz3

NL: Fm. van Stramproy, 3e zandige eenheid

BE: Mol Sands, Roer Valley Graben sediments north of the Feldbiss

DE: Ältere Hauptterrassen

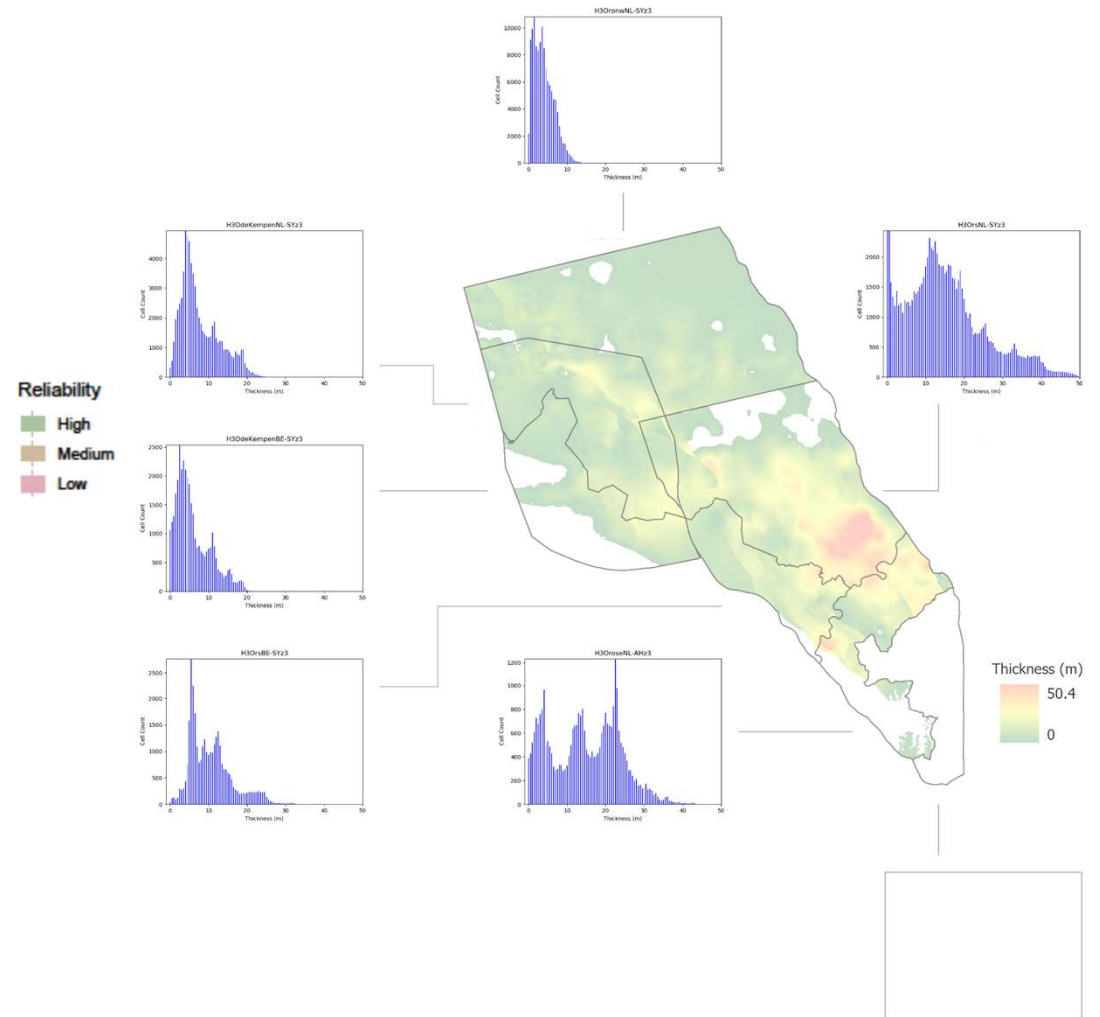
Hydraulic conductivity [m/d] of SYz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement, DE data slightly larger due to coarser grain size (closer to the source)

Thickness [m] of SYz3 by model area



Unit SYk3

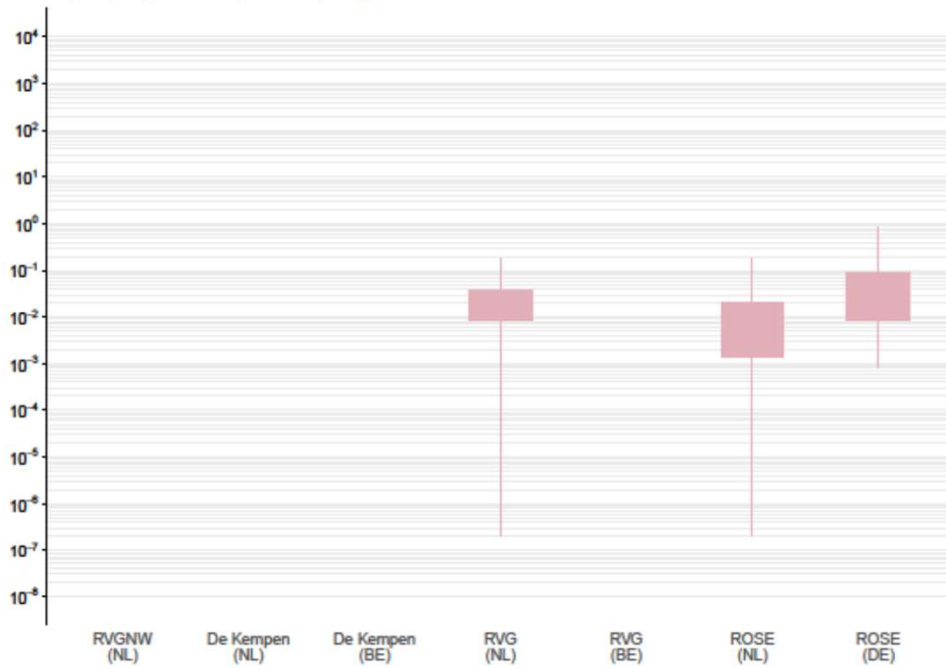
NL: Fm. van Stramproy, 3e kleiige eenheid

BE:

DE: Ältere Hauptterrassen

Hydraulic conductivity [m/d] of SYk3 by model area

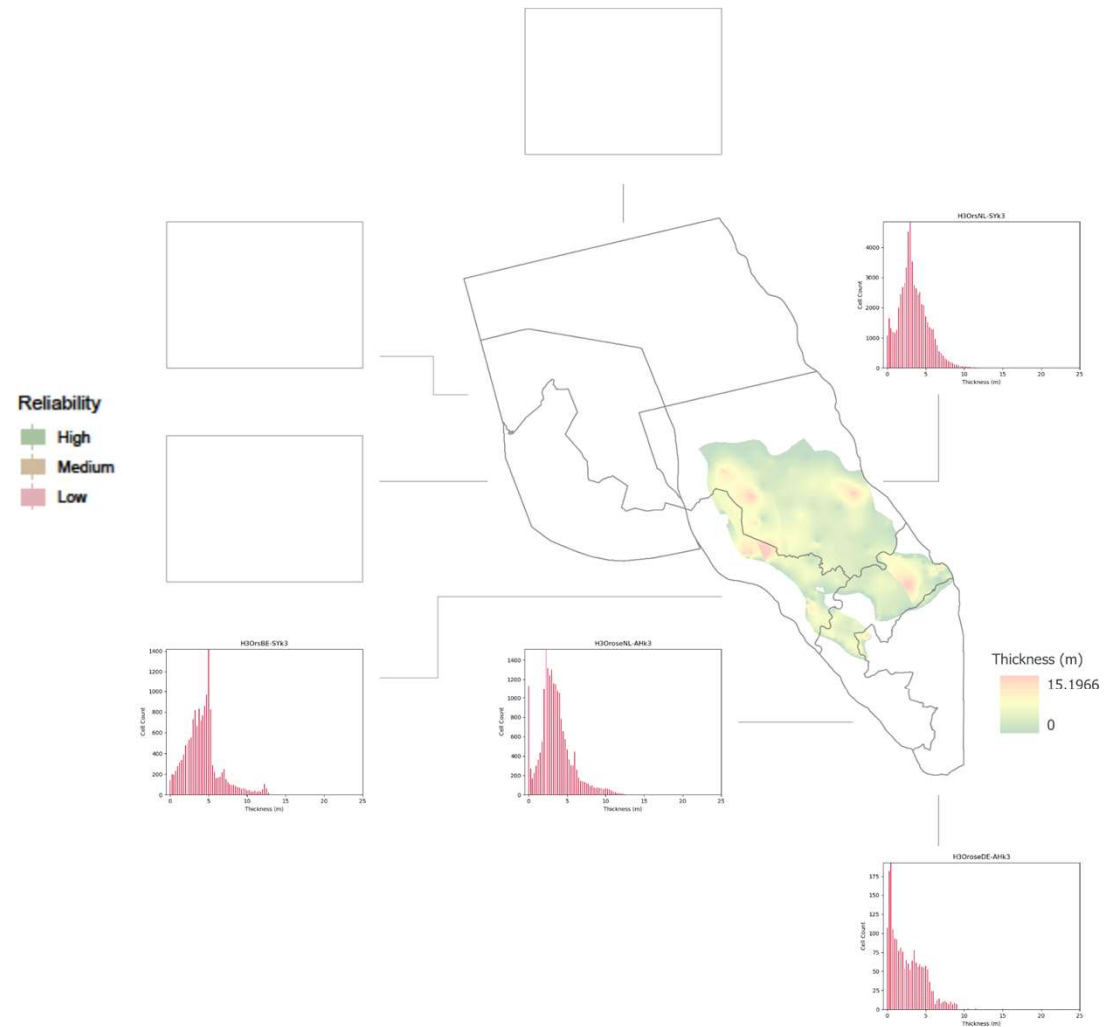
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and DE data, very low NL absolute minimum is based on permeameter tests on small soil samples from fluvial Urk Formation not present in the project area.

Thickness [m] of SYk3 by model area



Unit SYz4

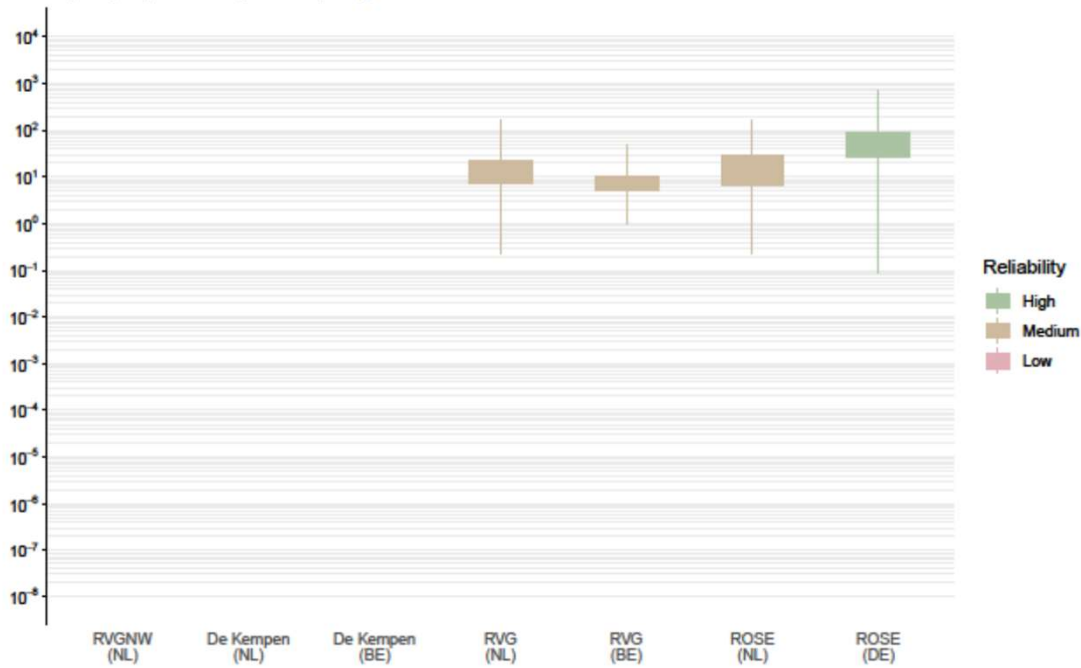
NL: Fm. van Stramproy, 4e zandige eenheid

BE: Roer Valley Graben sediments north of the Feldbiss

DE: Ältere Hauptterrassen

Hydraulic conductivity [m/d] of SYz4 by model area

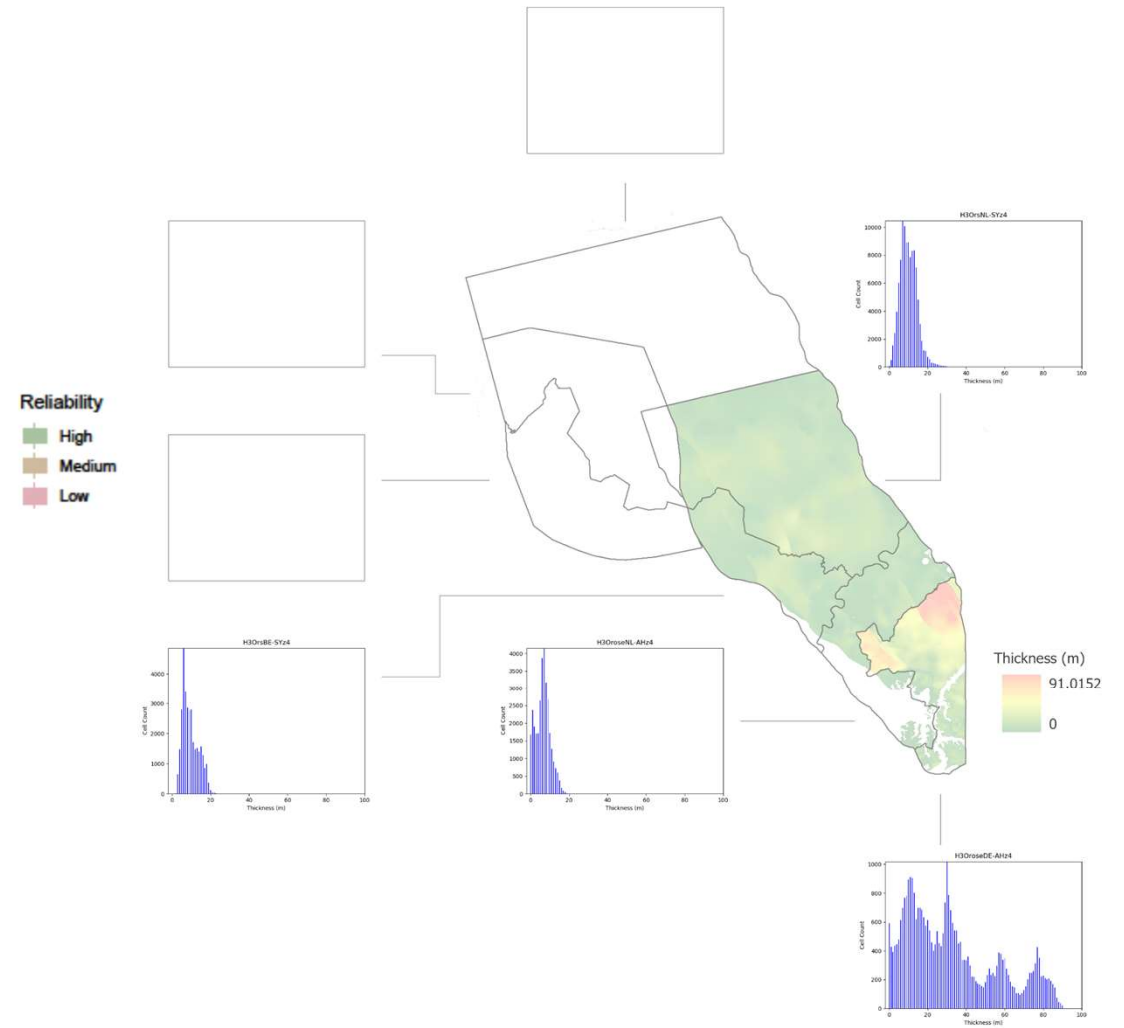
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement, DE data slightly larger due to coarser grain size (closer to the source)

Thickness [m] of SYz4 by model area



Unit PZWAz1

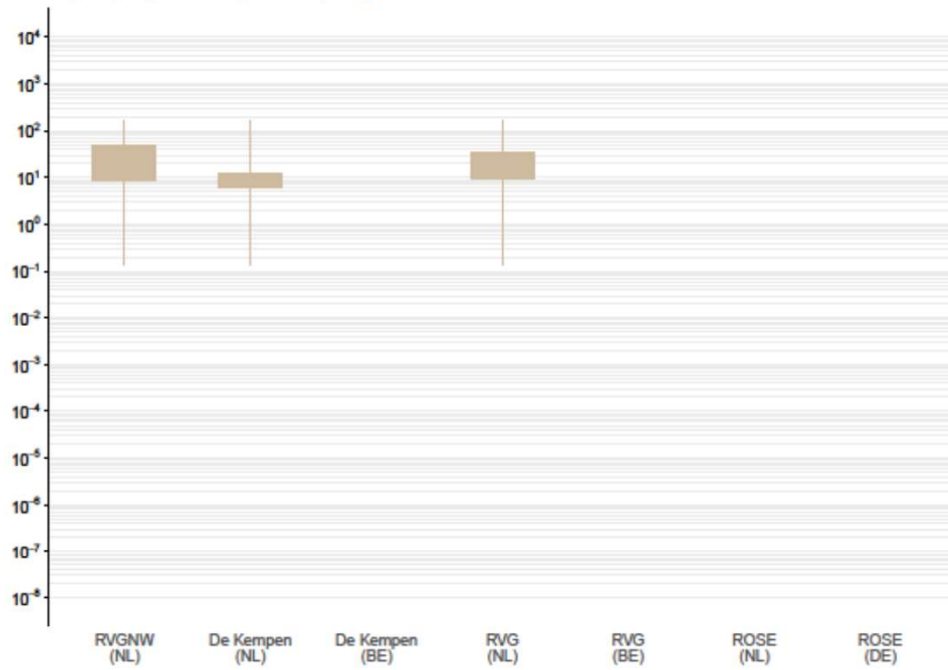
NL: Fm. van Peize en Fm. van Waalre, 1e zandige eenheid

BE:

DE:

Hydraulic conductivity [m/d] of PZWAz1 by model area

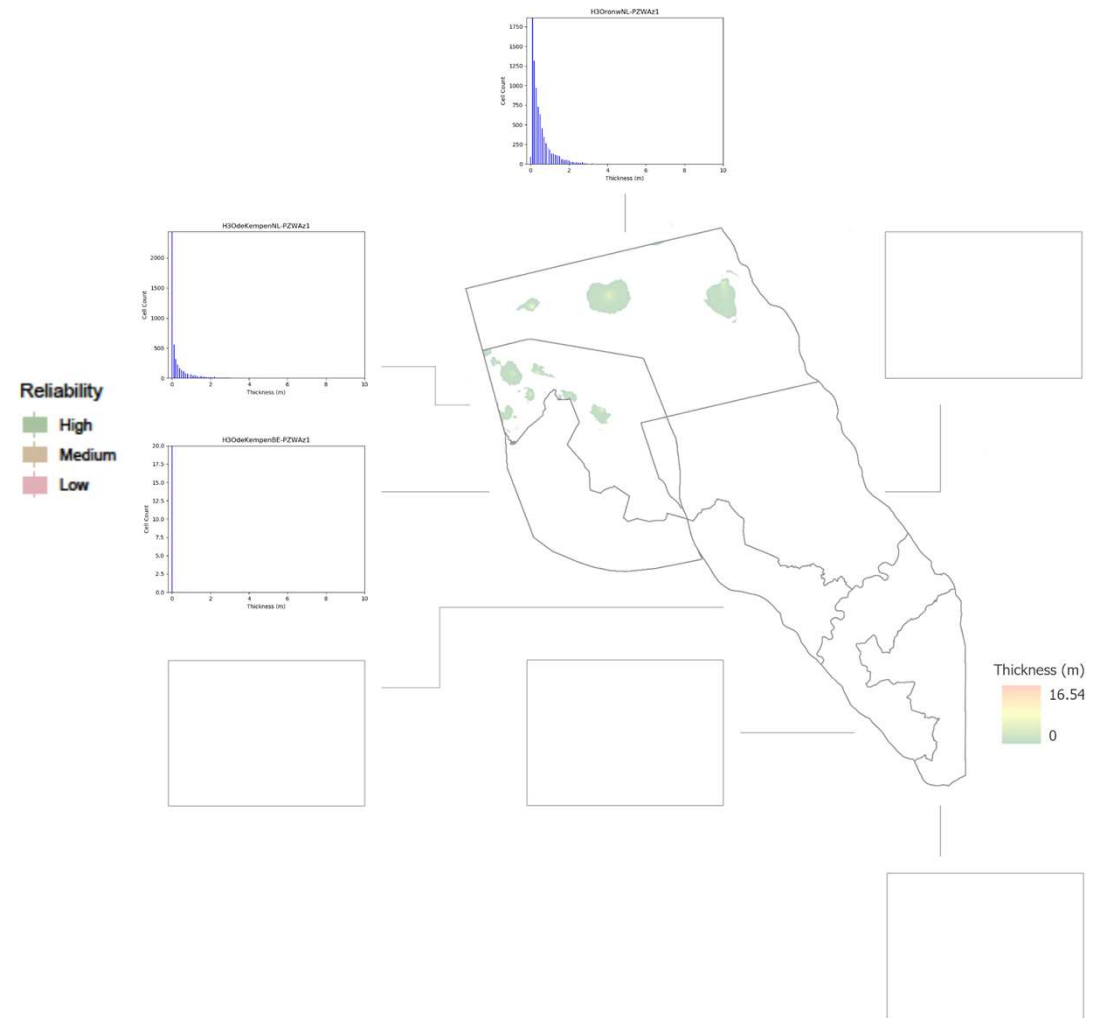
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of PZWAz1 by model area



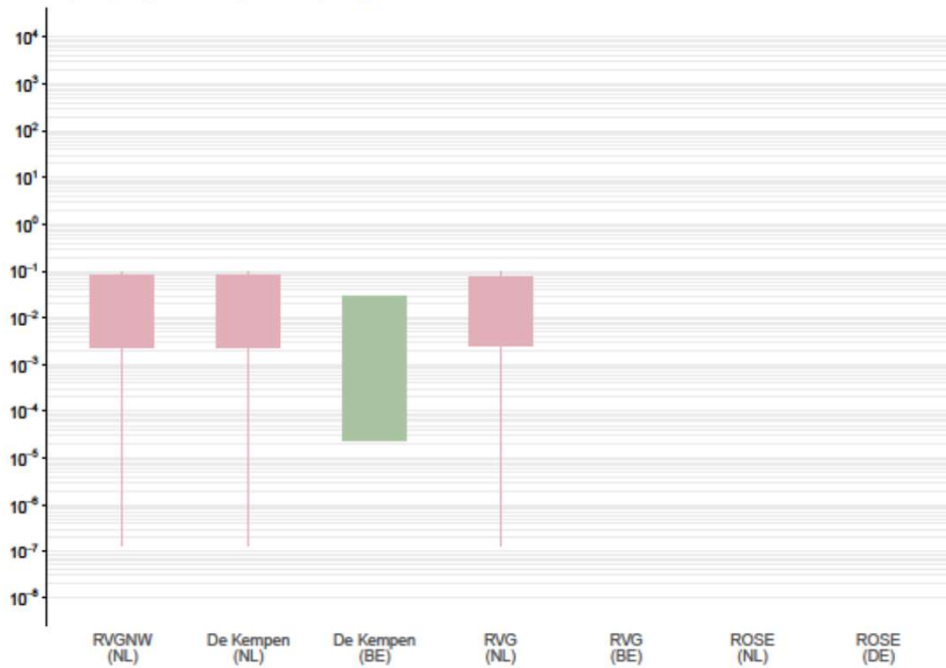
Unit WAK1

NL: Fm. van Waalre, 1e kleiige eenheid

BE: Kempen Clay-Sand Complex

DE:

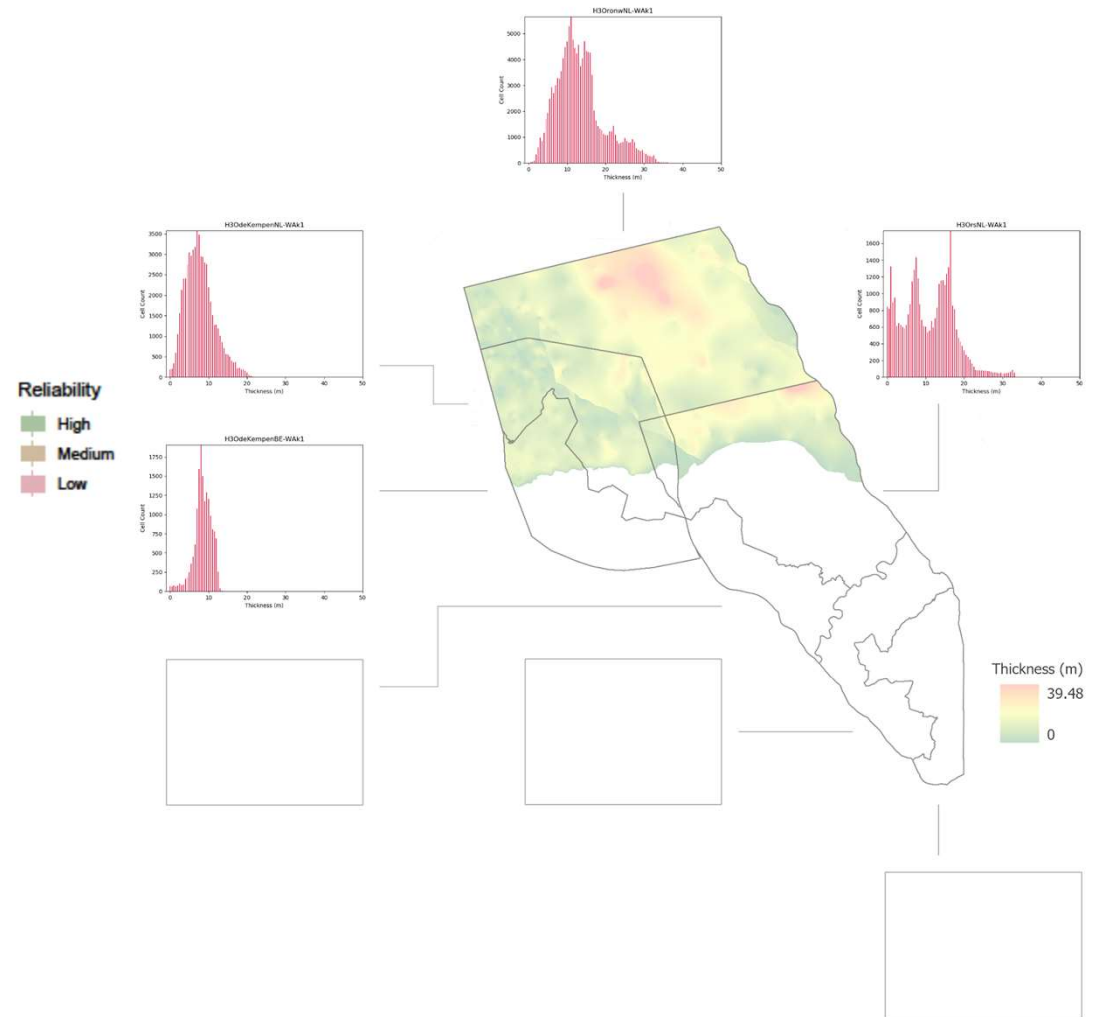
Hydraulic conductivity [m/d] of WAK1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- BE expert range (based on pumping tests) is larger and towards lower values than NL expert range, but falls within NL absolute range. NL expert range values is based on values for WAK1 in national hydrogeological model REGIS II v2.2; these values are currently under investigation.

Thickness [m] of WAK1 by model area



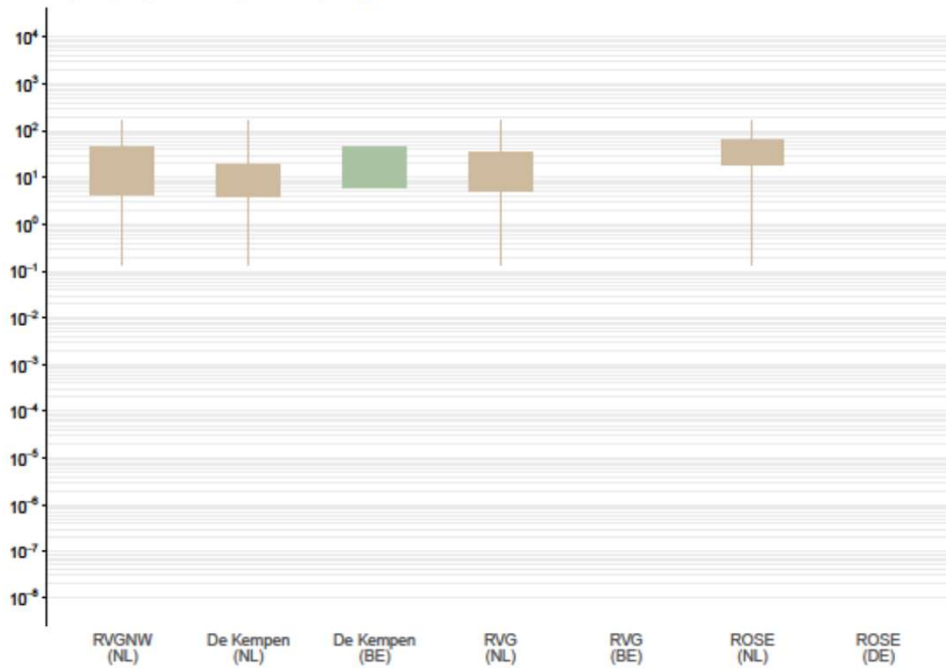
Unit PZWAz2

NL: Fm. van Peize en Fm. van Waalre, 2e zandige eenheid

BE: Brasschaat and/or Mol Sands

DE:

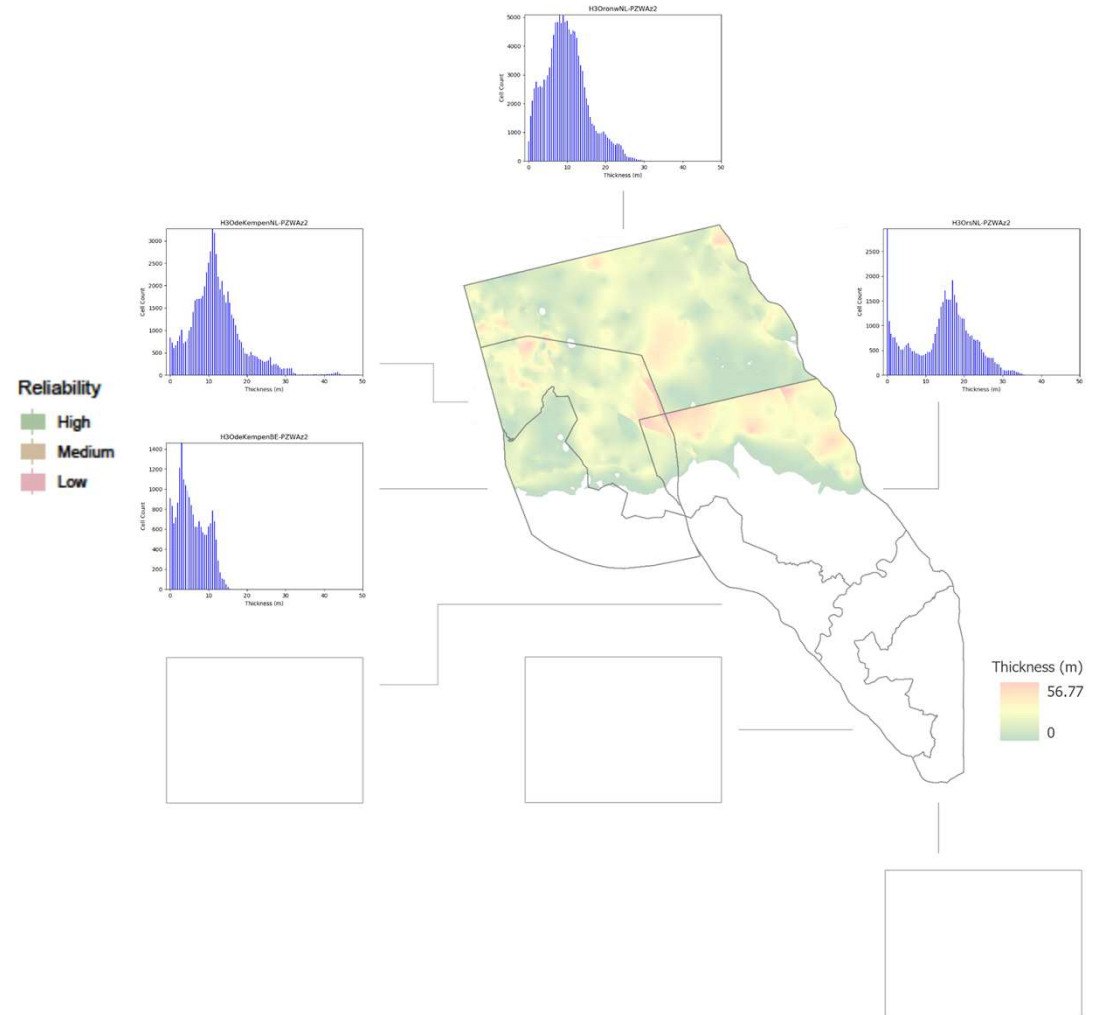
Hydraulic conductivity [m/d] of PZWAz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and BE data

Thickness [m] of PZWAz2 by model area



Unit WAK2

NL: Fm. van Waalre, 2e kleiige eenheid

BE:

DE:

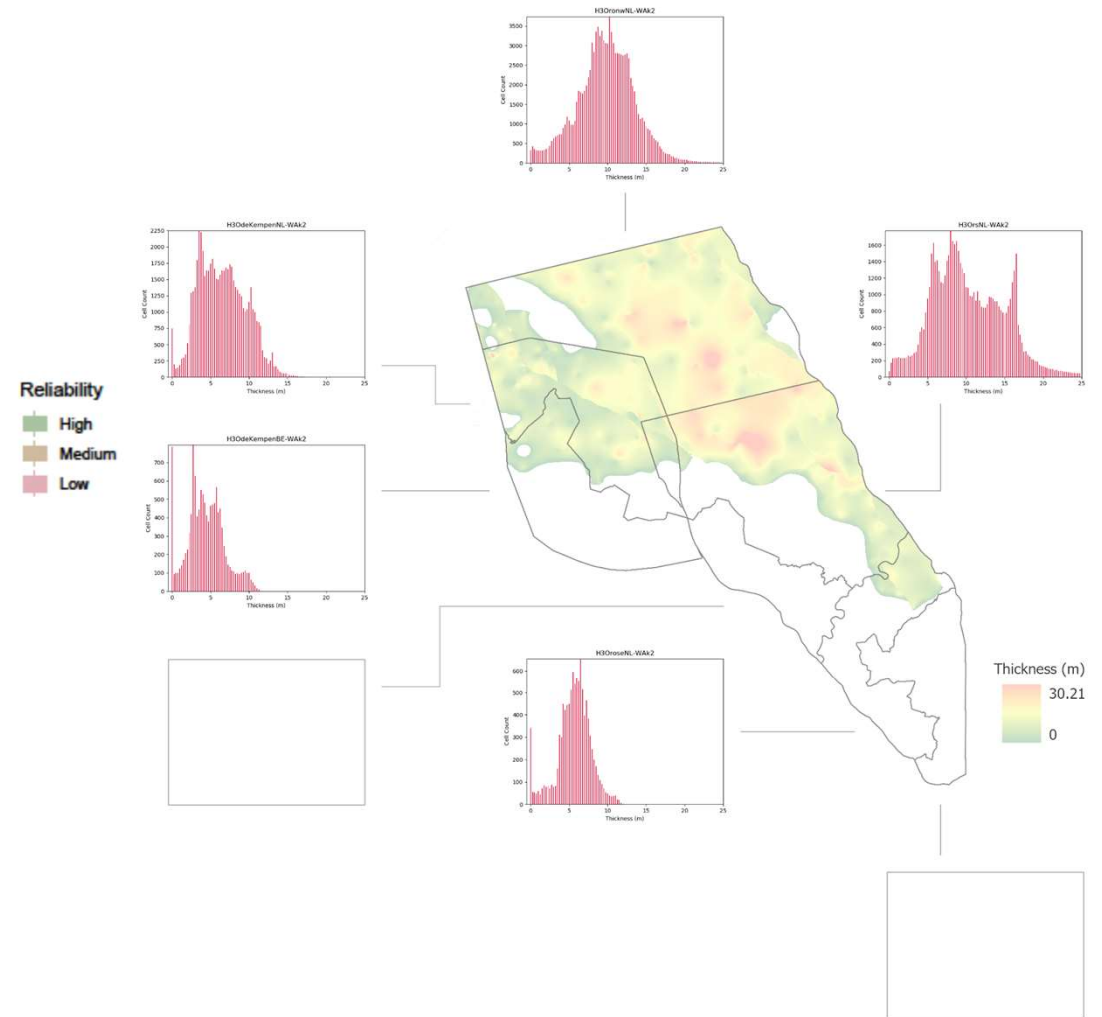
Hydraulic conductivity [m/d] of WAK2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of WAK2 by model area



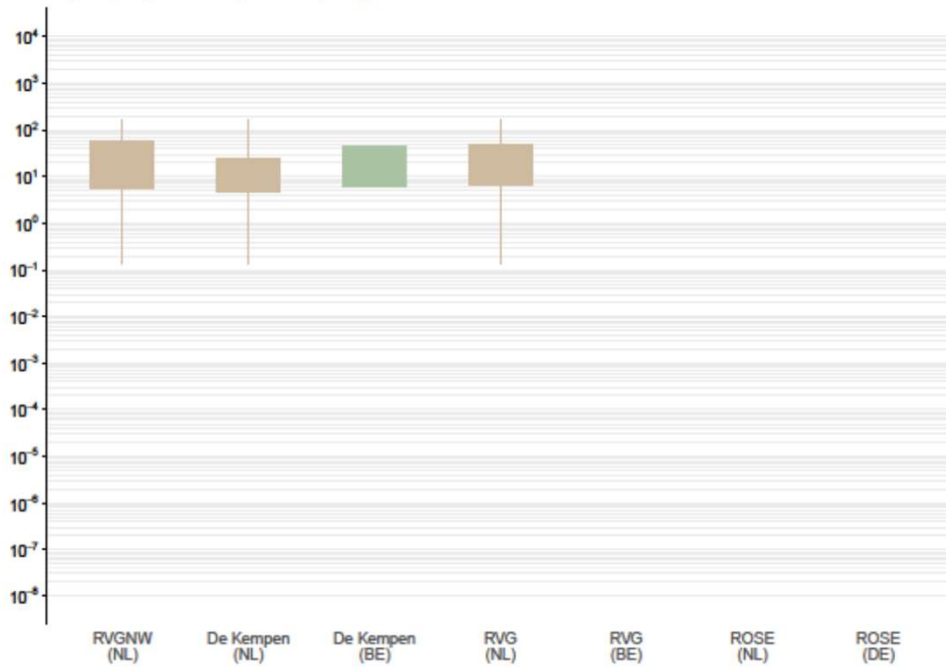
Unit PZWAz3

NL: Fm. van Peize en Fm. van Waalre, 3e zandige eenheid

BE: Brasschaat and/or Mol Sands

DE:

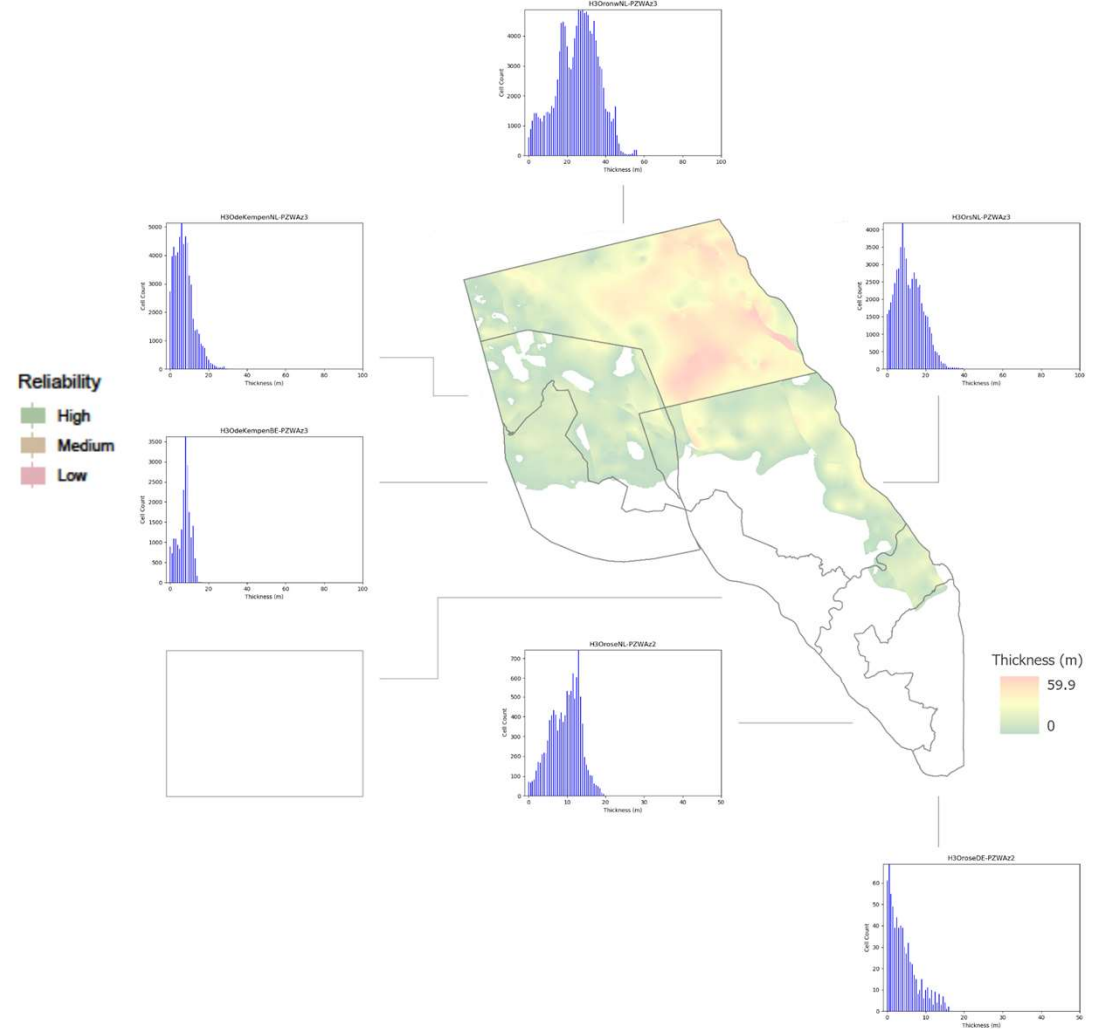
Hydraulic conductivity [m/d] of PZWAz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and BE data

Thickness [m] of PZWAz3 by model area



Unit WAK3

NL: Fm. van Waalre, 3e kleiige eenheid

BE:

DE:

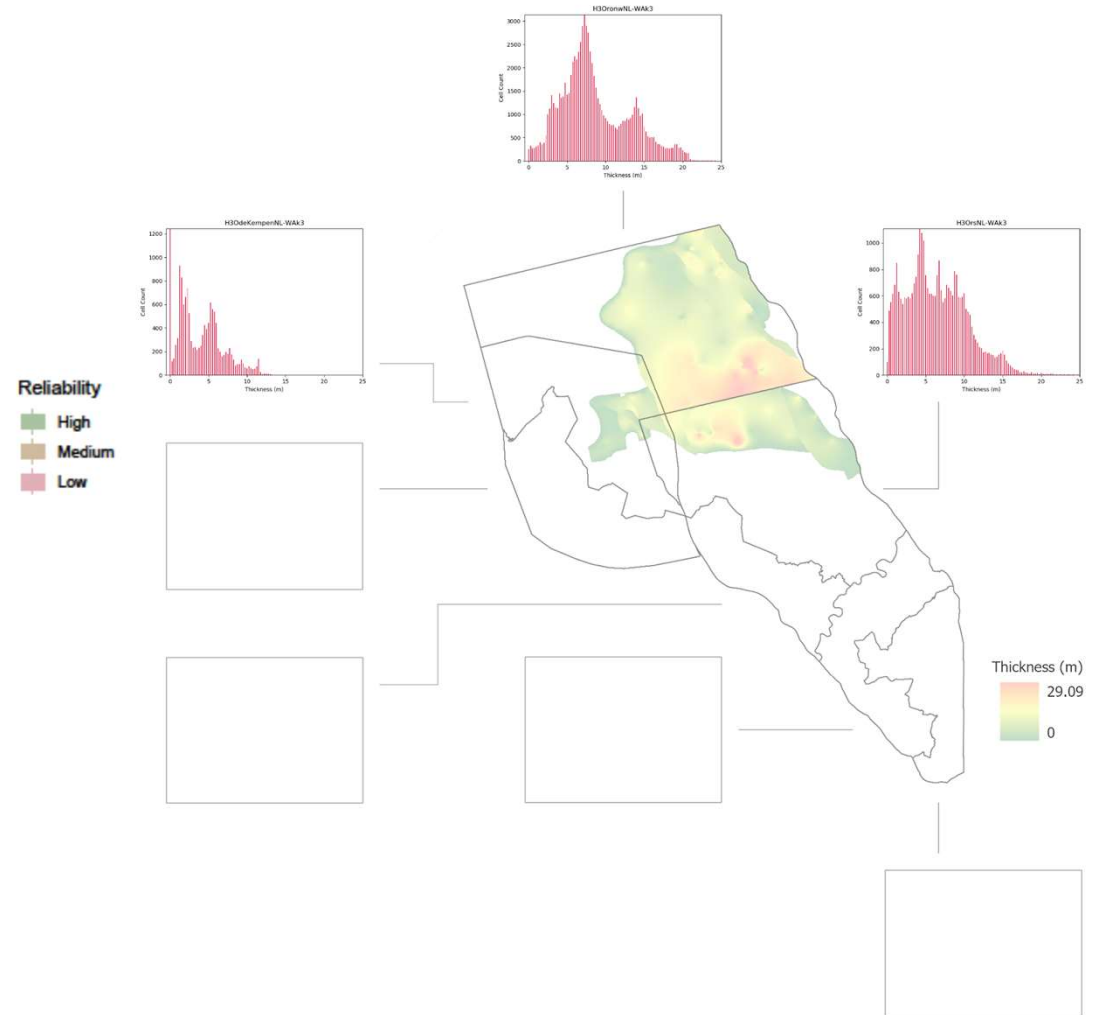
Hydraulic conductivity [m/d] of WAK3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of WAK3 by model area



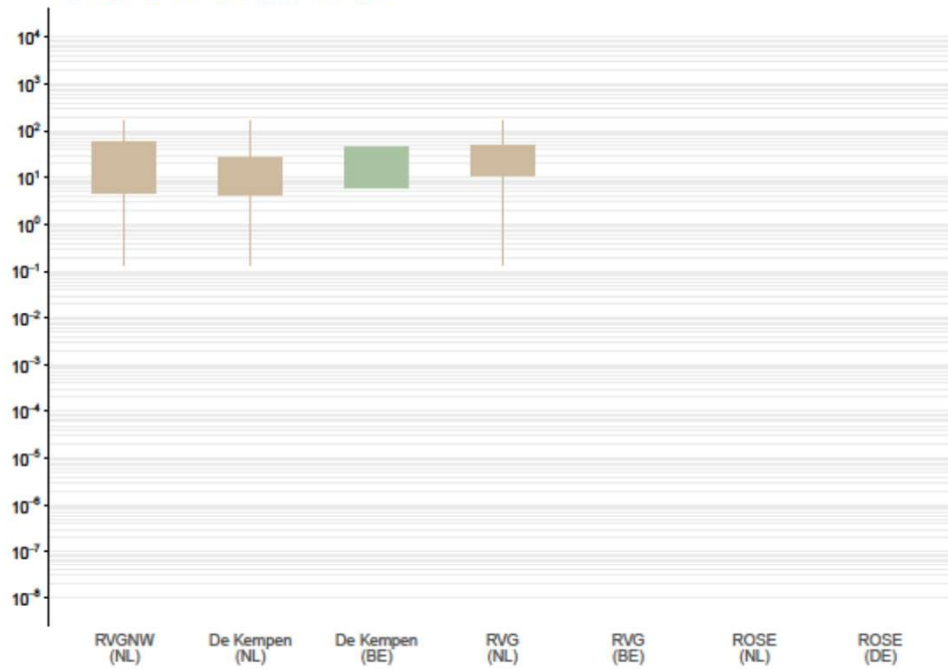
Unit PZWAz4

NL: Fm. van Peize en Fm. van Waalre, 4e zandige eenheid

BE: Brasschaat and/or Mol Sands

DE:

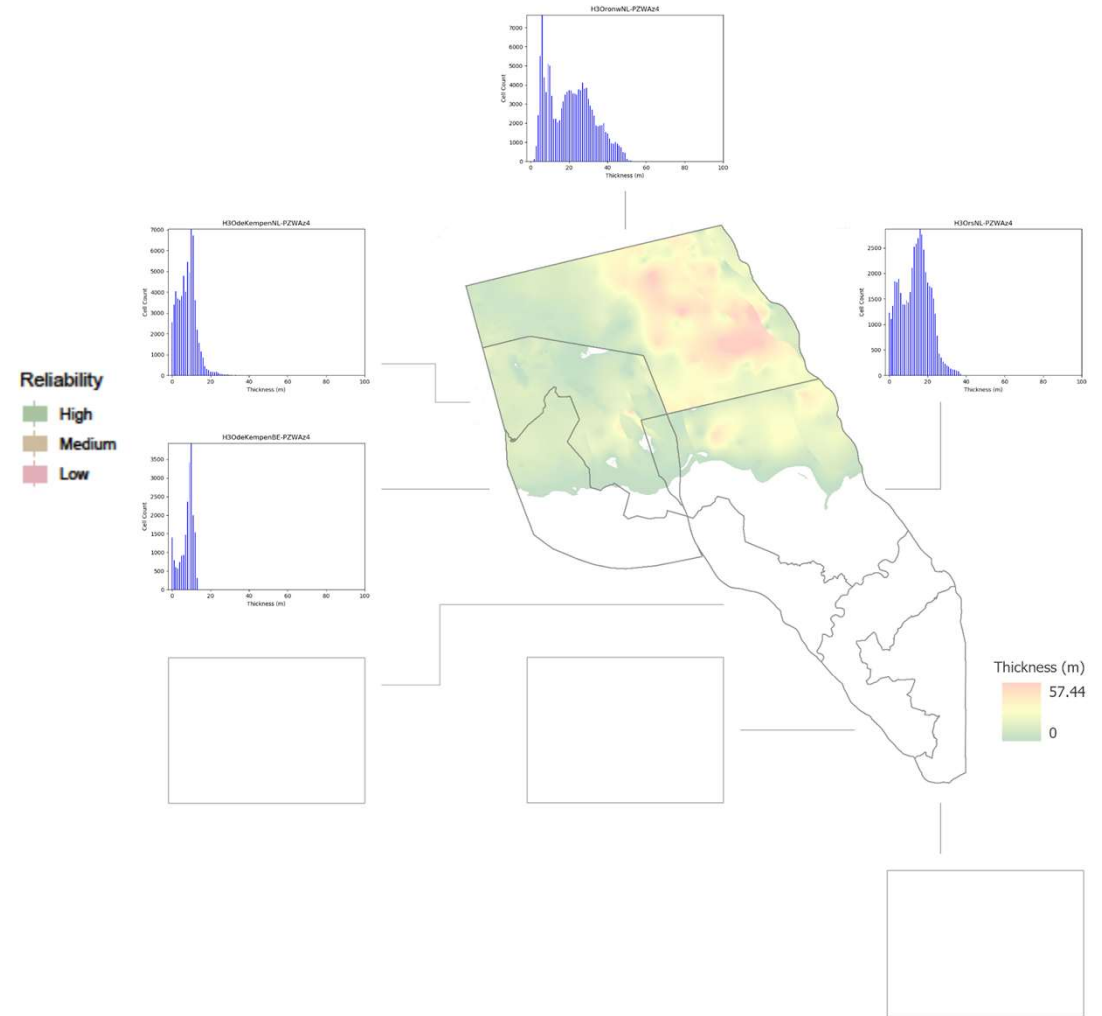
Hydraulic conductivity [m/d] of PZWAz4 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and BE data

Thickness [m] of PZWAz4 by model area



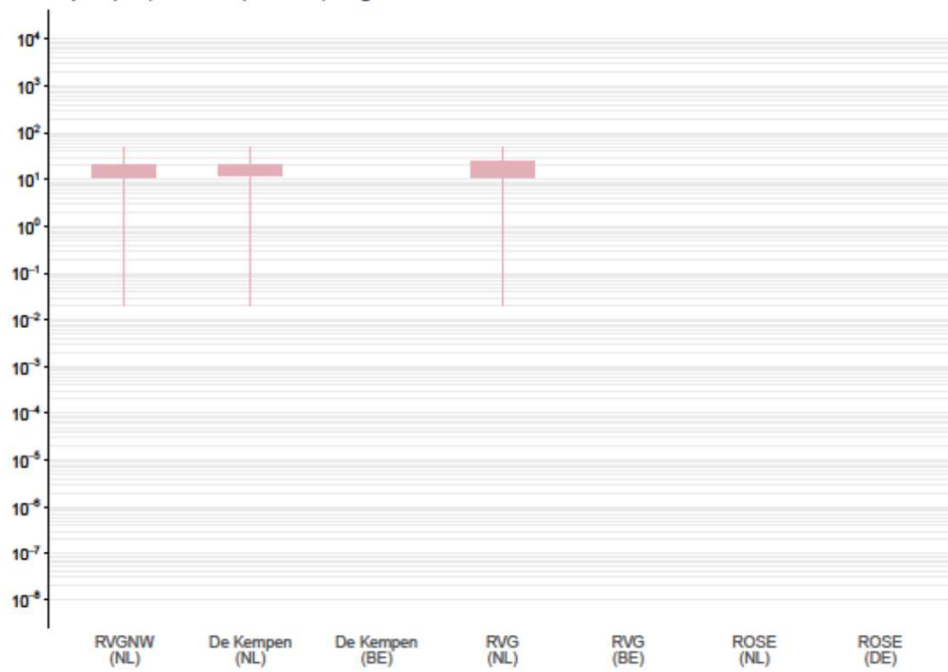
Unit MSz1

NL: Fm. van Maassluis, 1e zandige eenheid

BE:

DE:

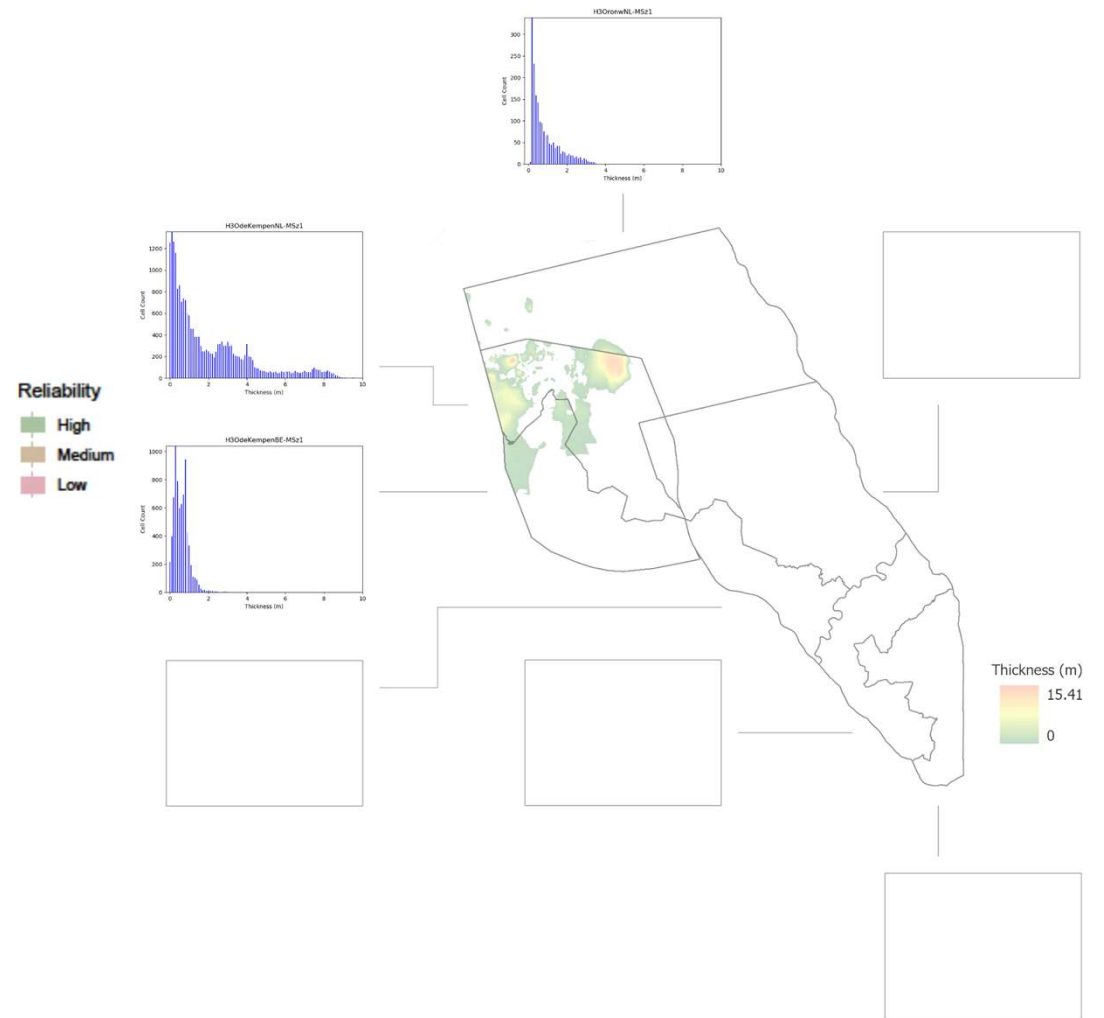
Hydraulic conductivity [m/d] of MSz1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of MSz1 by model area



Unit MSk1

NL: Fm. van Maassluis, 1e kleine eenheid

BE:

DE:

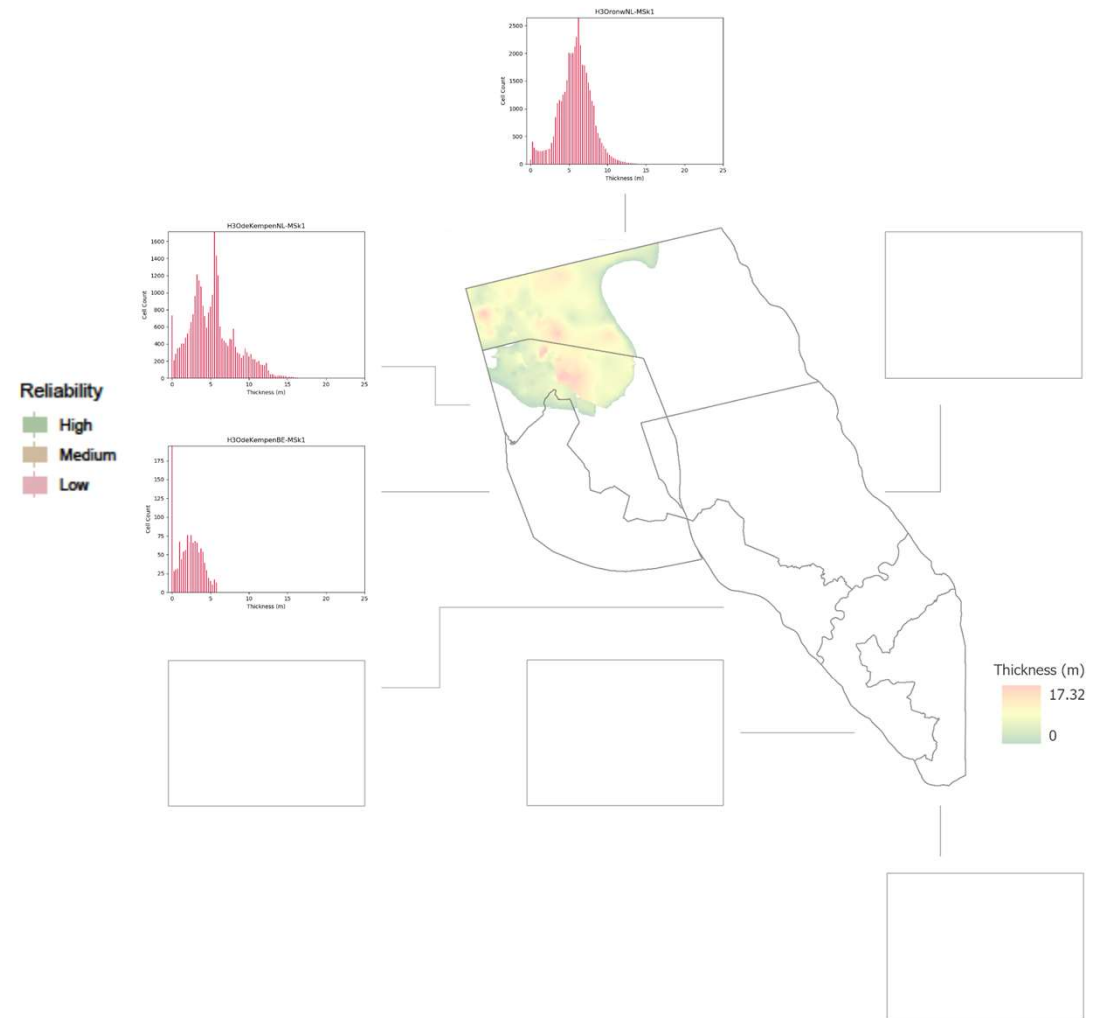
Hydraulic conductivity [m/d] of MSk1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of MSk1 by model area



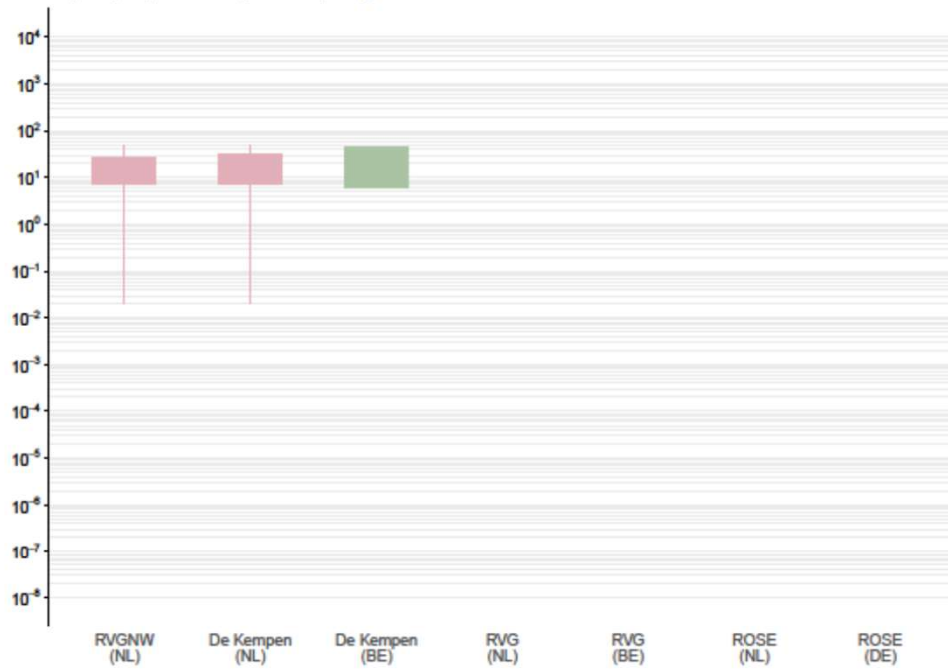
Unit MSz2

NL: Fm. van Maassluis, 2e zandige eenheid

BE: Brasschaat and/or Mol Sands

DE:

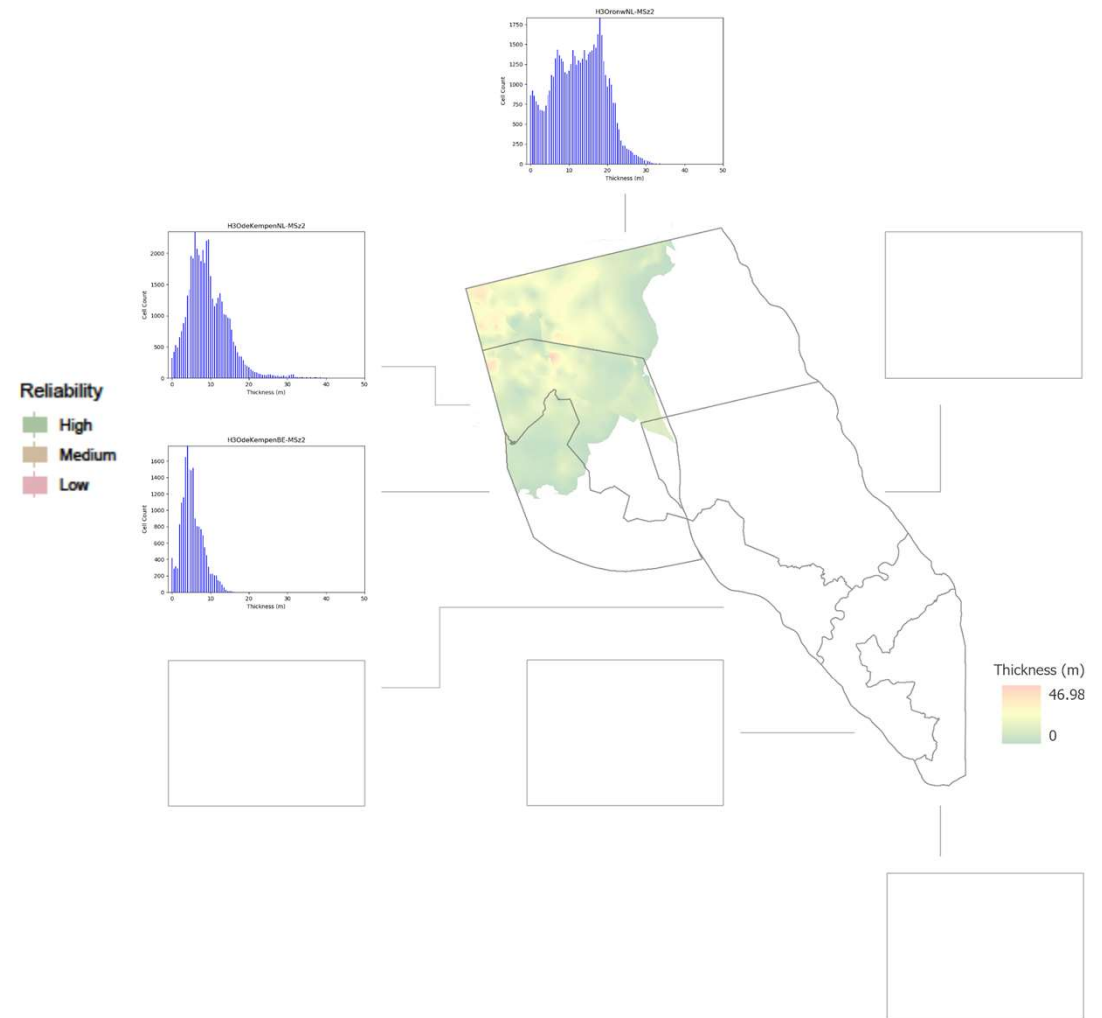
Hydraulic conductivity [m/d] of MSz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and BE data

Thickness [m] of MSz2 by model area



Unit MSk2

NL: Fm. van Maassluis, 2e kleiige eenheid

BE:

DE:

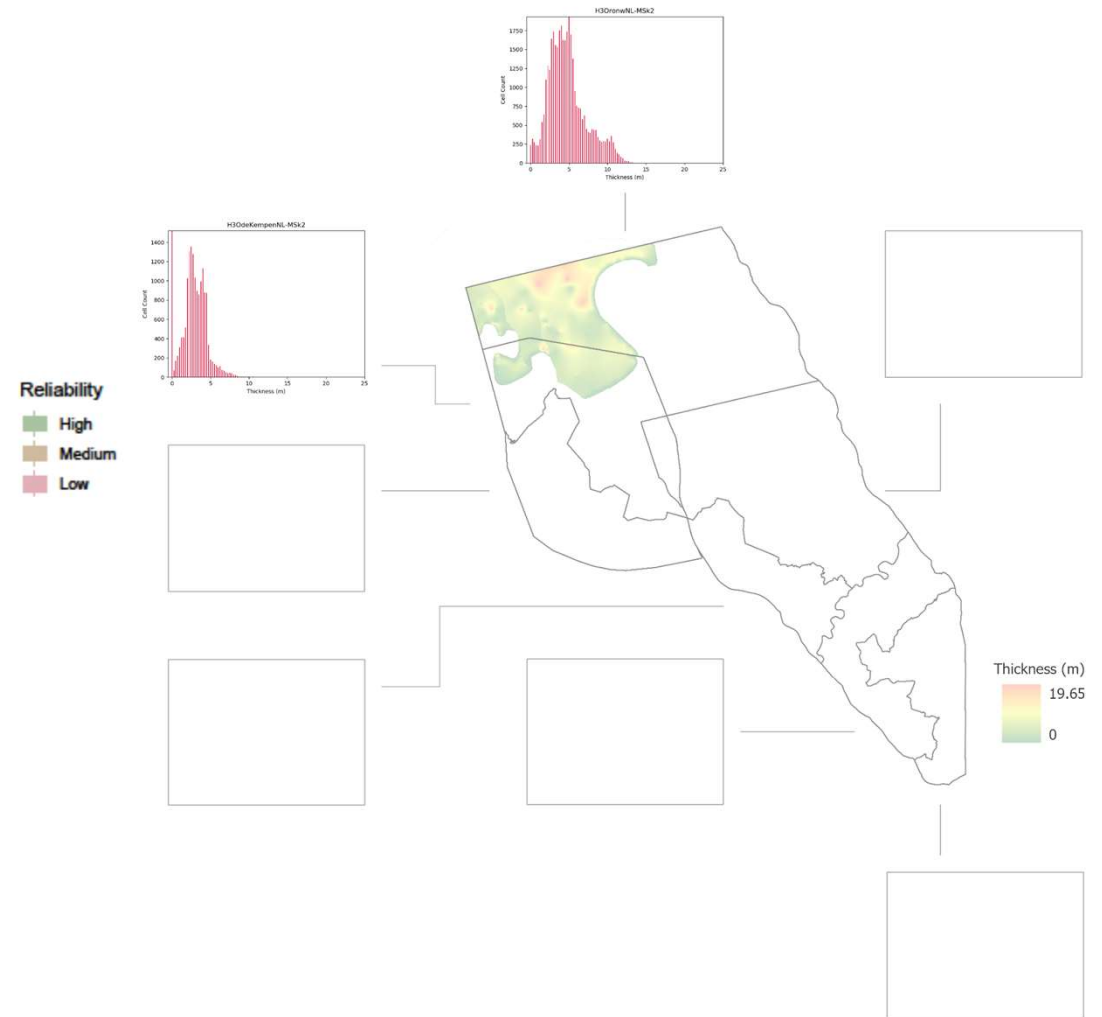
Hydraulic conductivity [m/d] of MSk2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of MSk2 by model area



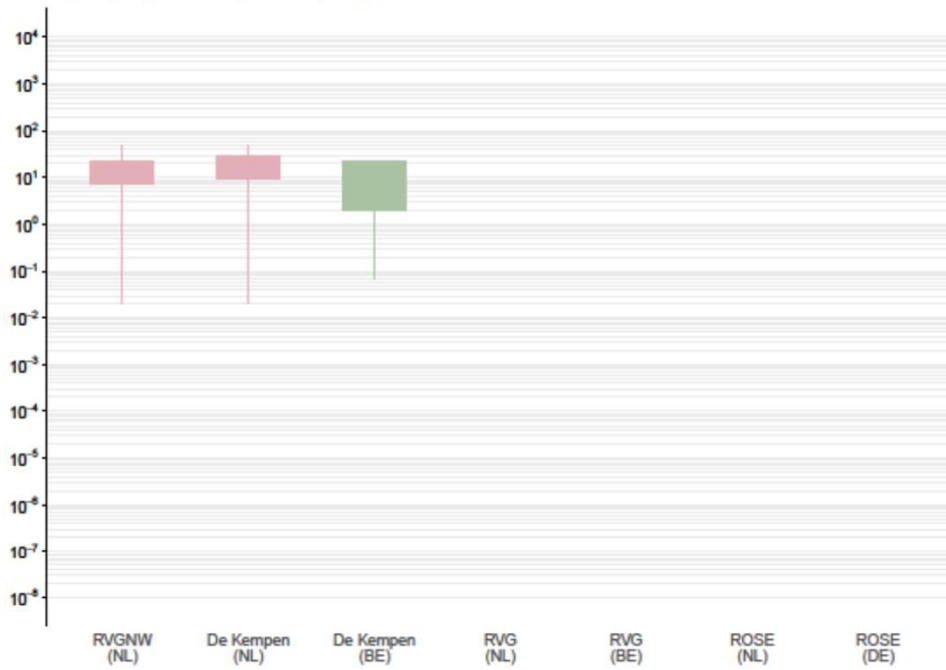
Unit MSz3

NL: Fm. van Maassluis, 3e zandige eenheid

BE: Lillo-Poederlee-Kasterlee Sands

DE:

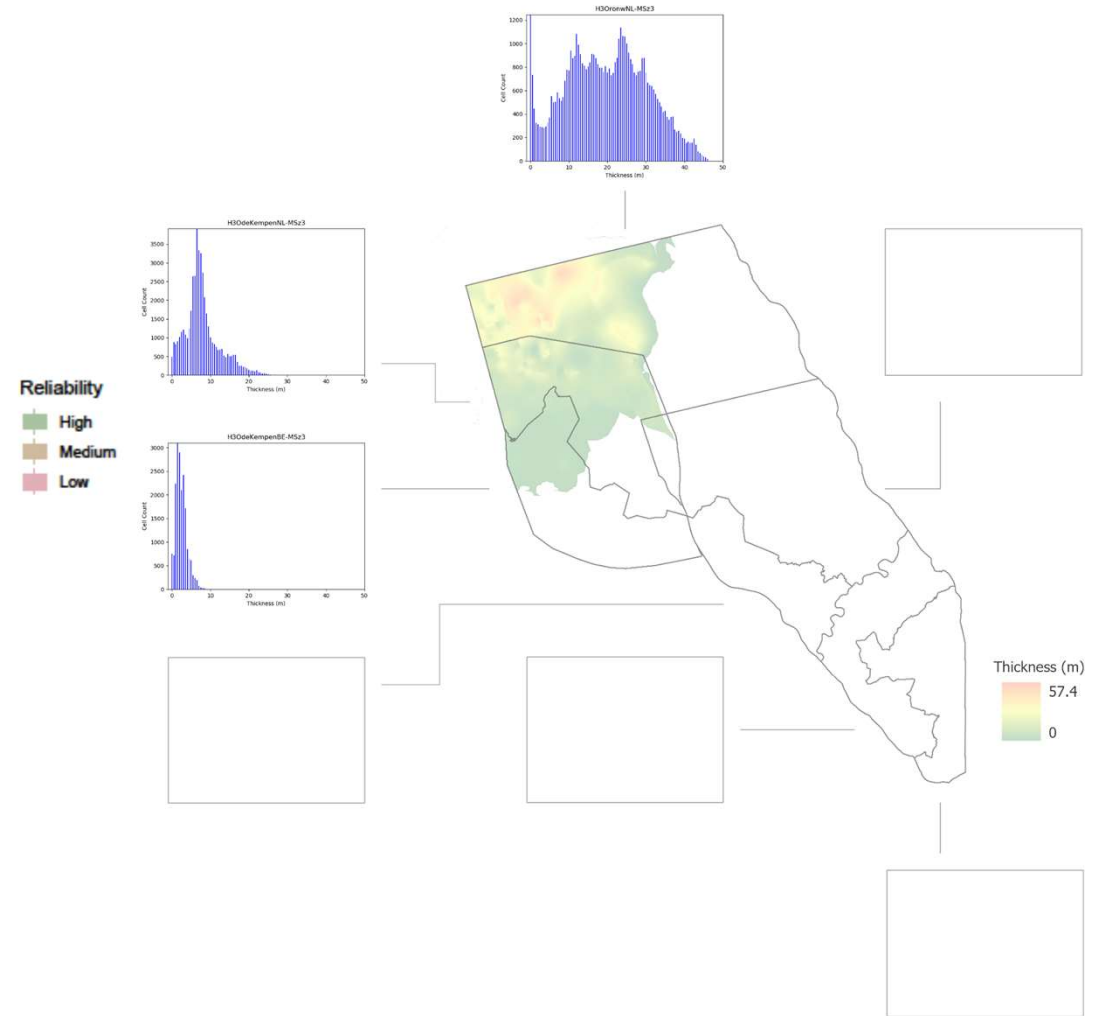
Hydraulic conductivity [m/d] of MSz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and BE data

Thickness [m] of MSz3 by model area



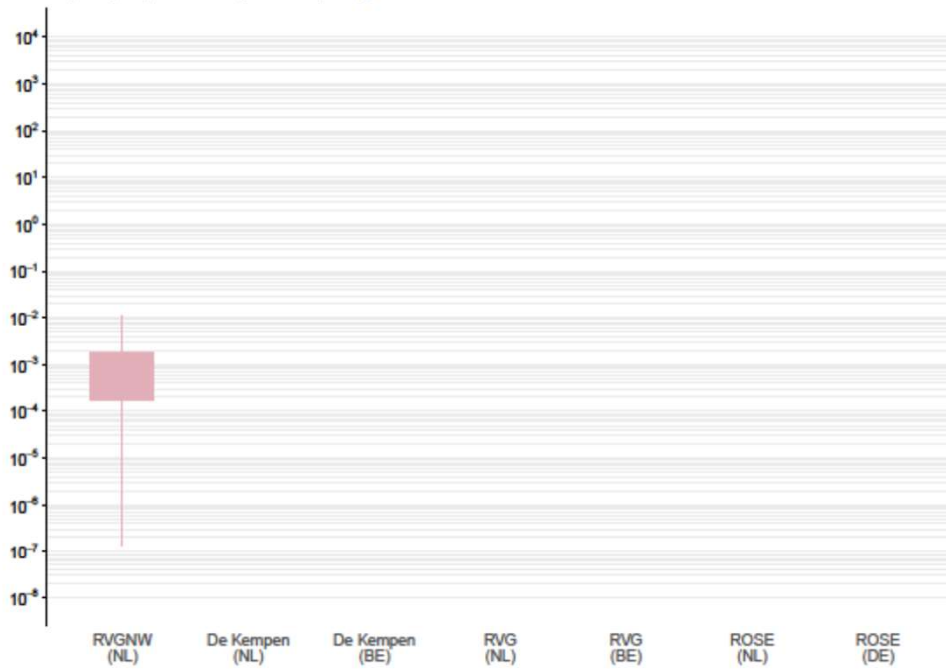
Unit Kik1a

NL: Kiezeloöliet Fm., eerste kleiige eenheid

BE:

DE:

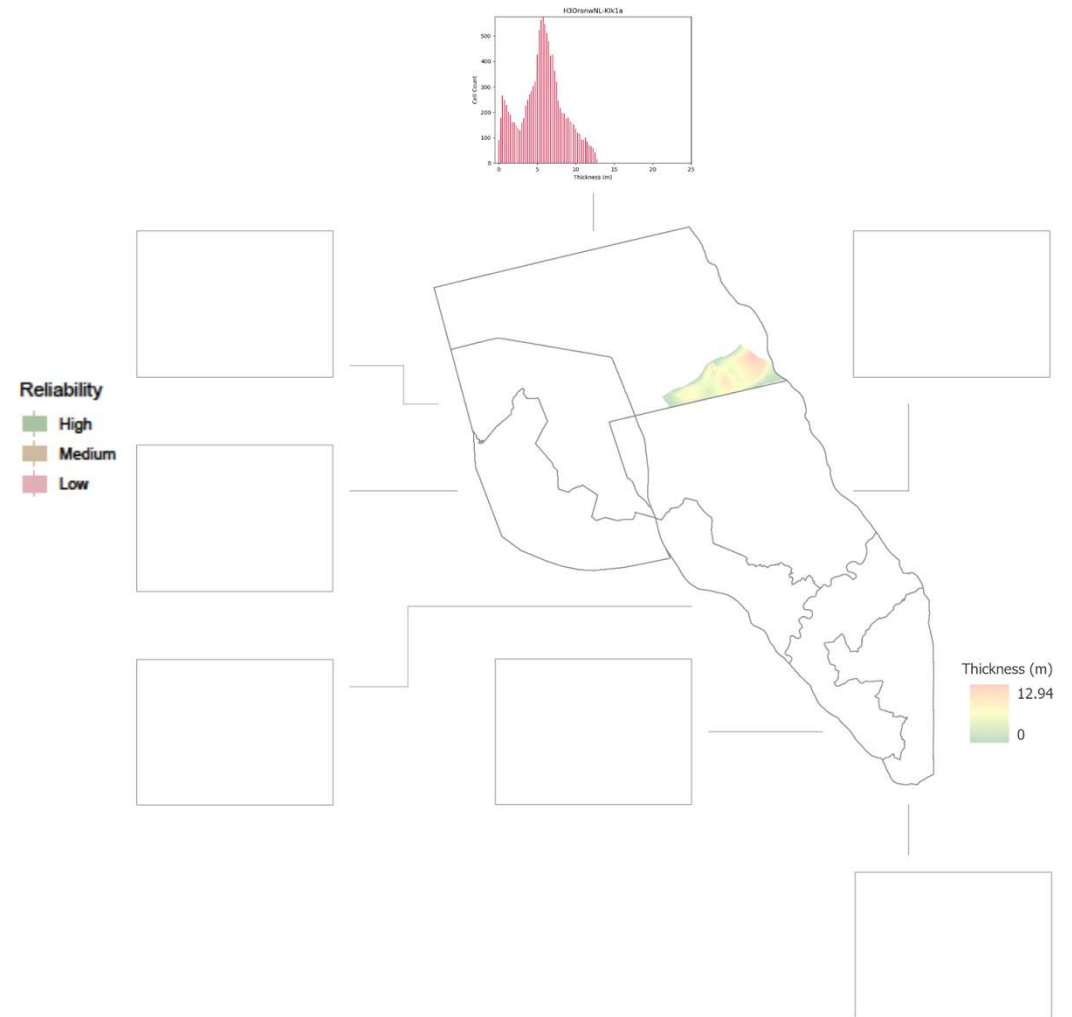
Hydraulic conductivity [m/d] of Kik1a by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of Kik1a by model area



Unit Klz1

NL: Kiezeloöliet Fm., eerste zandige eenheid

BE:

DE:

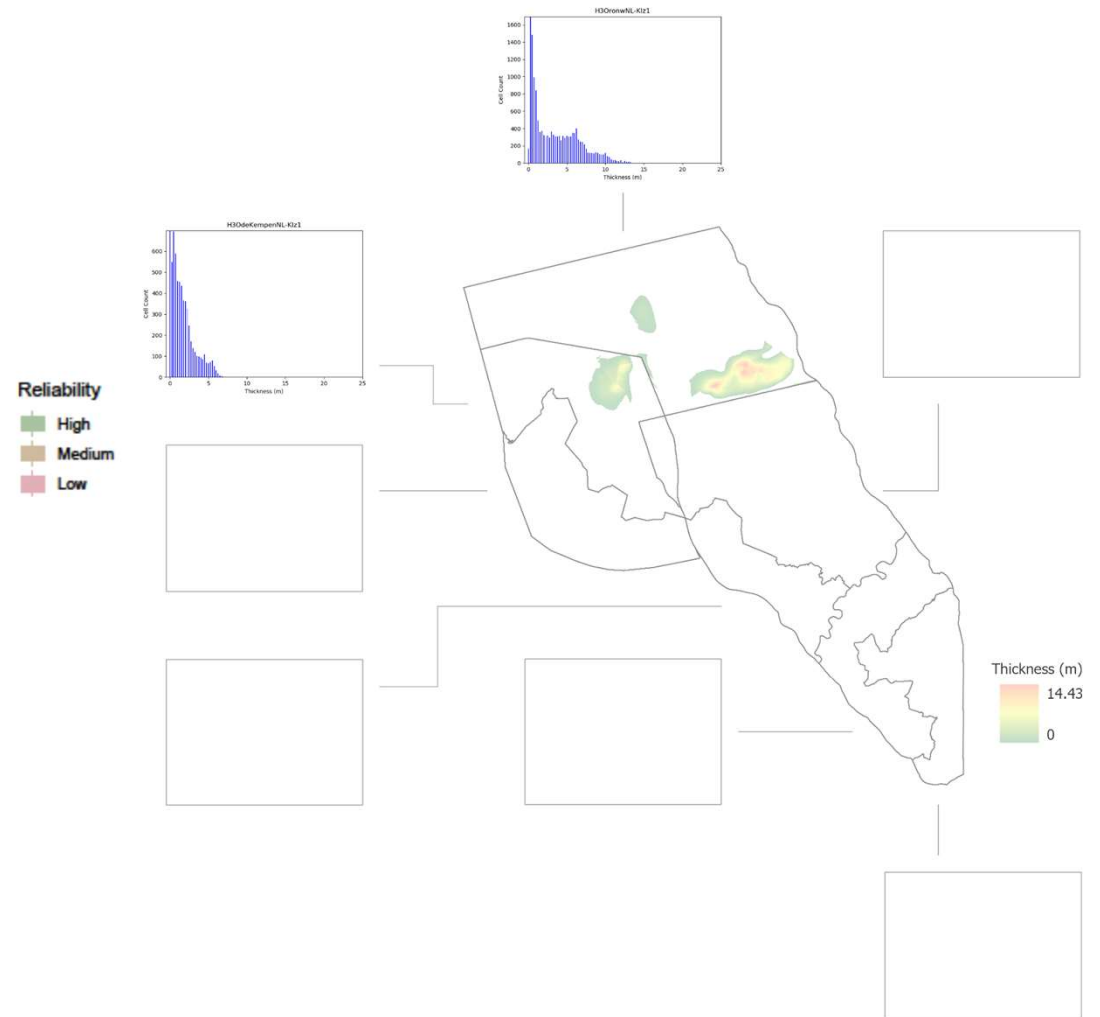
Hydraulic conductivity [m/d] of Klz1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of Klz1 by model area



Unit Kik1

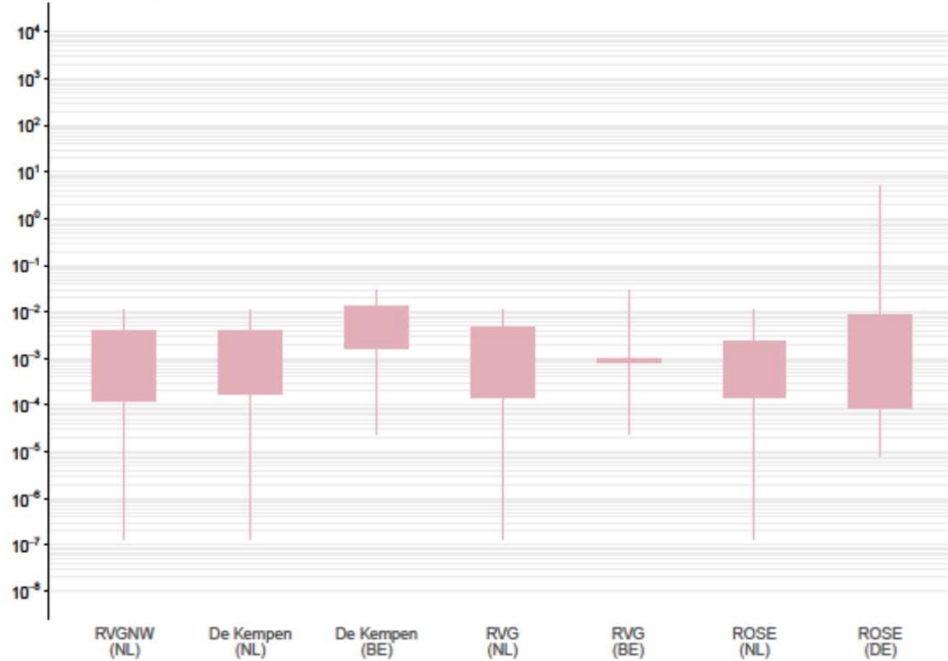
NL: Kiezeloöliet Fm., eerste kleiige eenheid

BE: Mol Sands (Russendorp), Roer Valley Graben sediments north of the Feldbiss

DE: Kieseloolith-Fm, Reuver-Ton, Hor. 11

Hydraulic conductivity [m/d] of Kik1 by model area

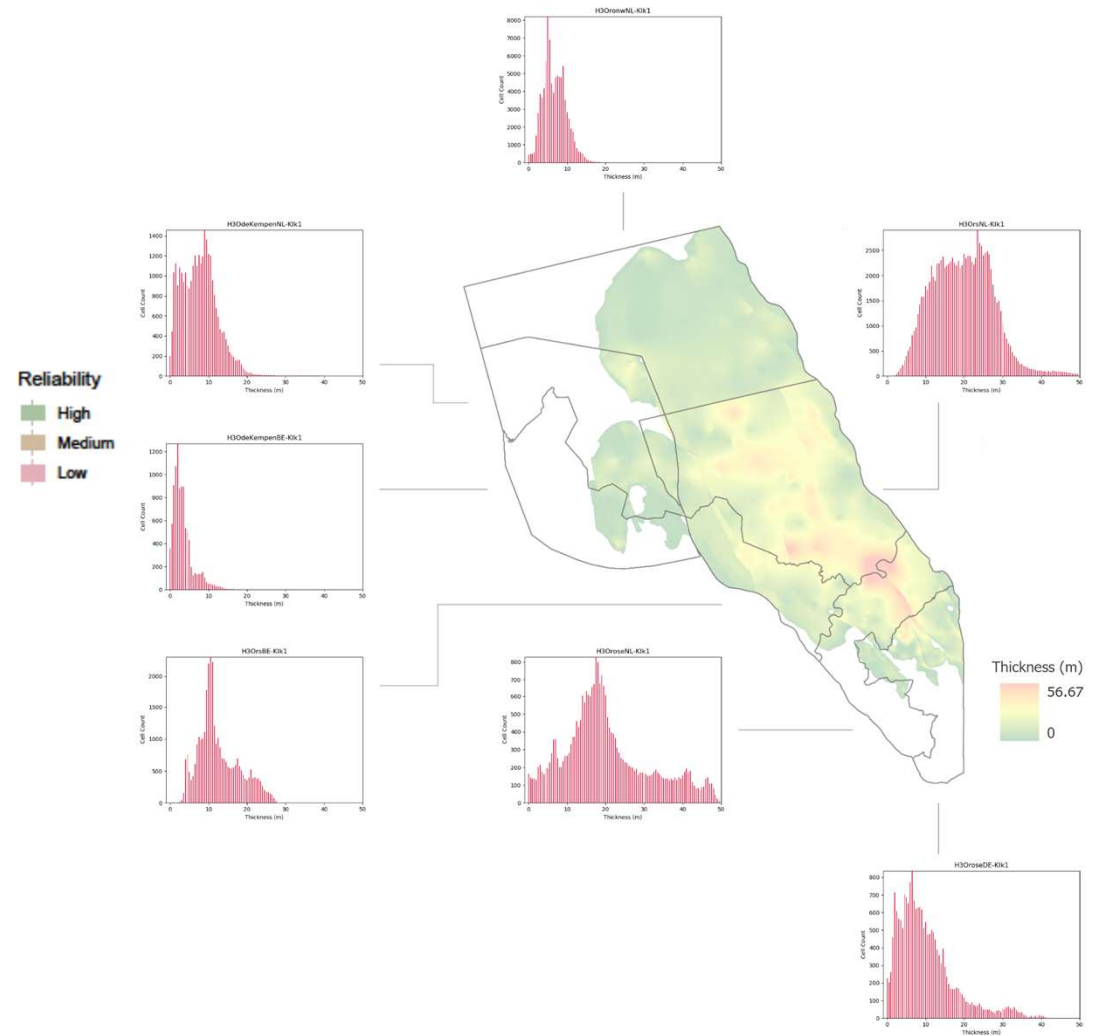
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- BE data for RVG based on Kik2 as an analogue, which may explain the slightly higher value, DE data range very high because of single values, representing sand layers in the clay. NL absolute range is based on permeameter tests on small soil samples from the Waalre Formation (WA) that was used as analogue.

Thickness [m] of Kik1 by model area



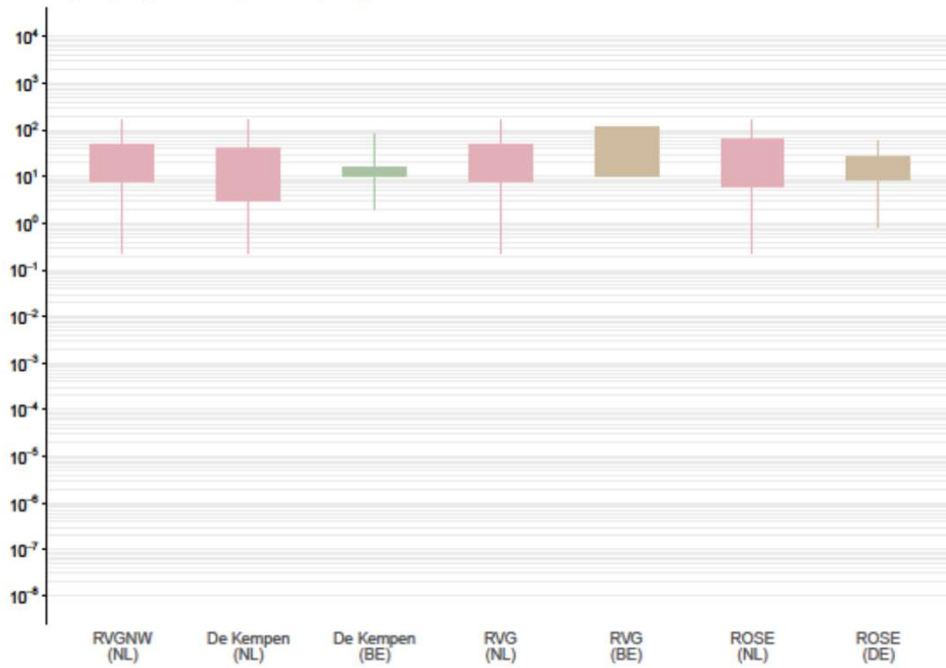
Unit Klz2

NL: Kiezeloöliet Fm., tweede zandige eenheid

BE: Mol Sands (Maatheide), Roer Valley Graben sediments north of the Feldbiss

DE: Kieseloolith-Fm, Unterer Reuver-Sand, Hor. 10

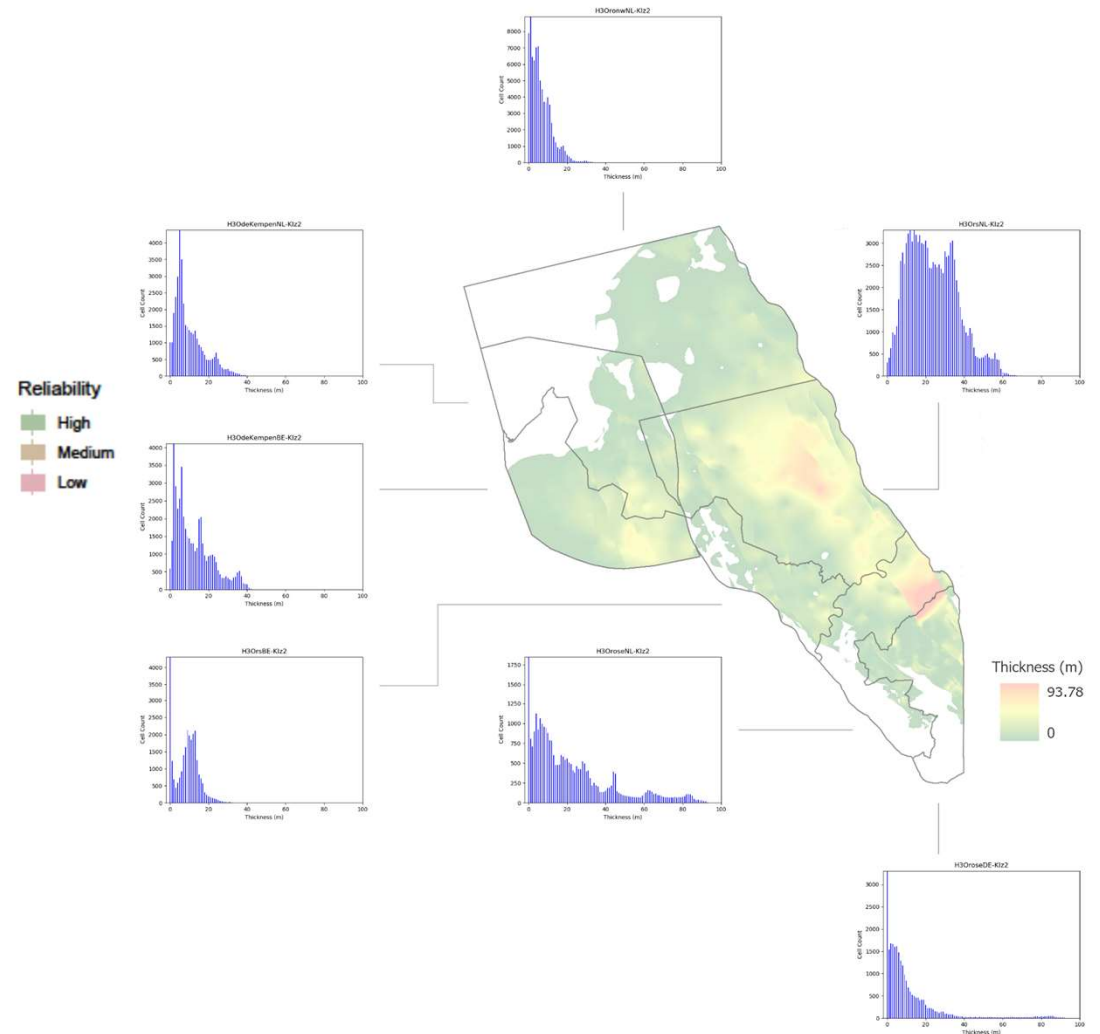
Hydraulic conductivity [m/d] of Klz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall very good agreement between NL-BE-DE data

Thickness [m] of Klz2 by model area



Unit Kik2

NL: Kiezeloöliet Fm., tweede kleiige eenheid

BE: Mol Sands (De Maat), Brunssum Clay

DE: Kieseloolith-Fm, Oberer Rotton, Hor. 9C

Hydraulic conductivity [m/d] of Kik2 by model area

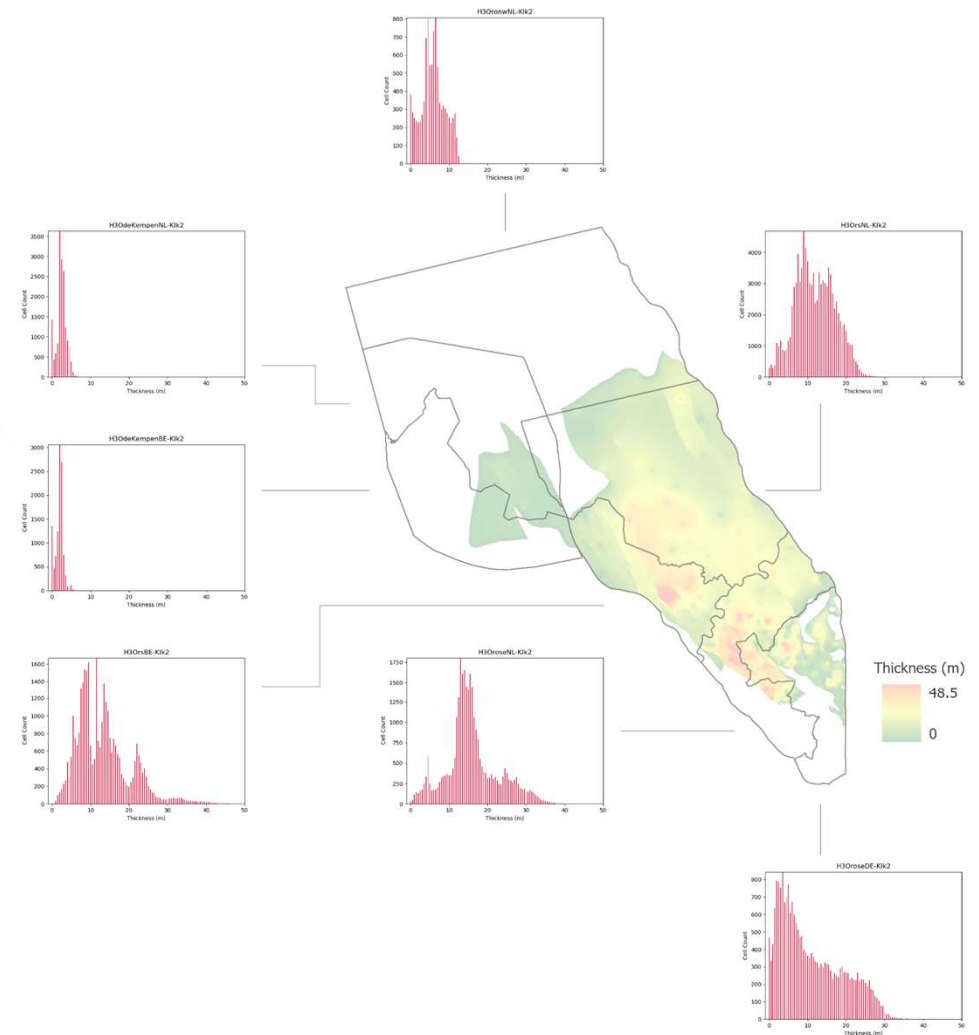
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very small BE expert range in RVG is based on only two individual values as given in the references, absolute range based on WAK1 as an analogue and seems to agree quite well with NL and DE data; note that Kik2 for the BE De Kempen area is not clay but lignite (De Maat); NL absolute range is based on permeameter tests on small soil samples from the Waalre Formation (WA) that was used as analogue.

Thickness [m] of Kik2 by model area



Unit Klz3

NL: Kiezeloöliet Fm., derde zandige eenheid

BE: Mol Sands (Donk), Pey Sand

DE: Kieseloolith-Fm, Liblar-Sand, Hor. 9B

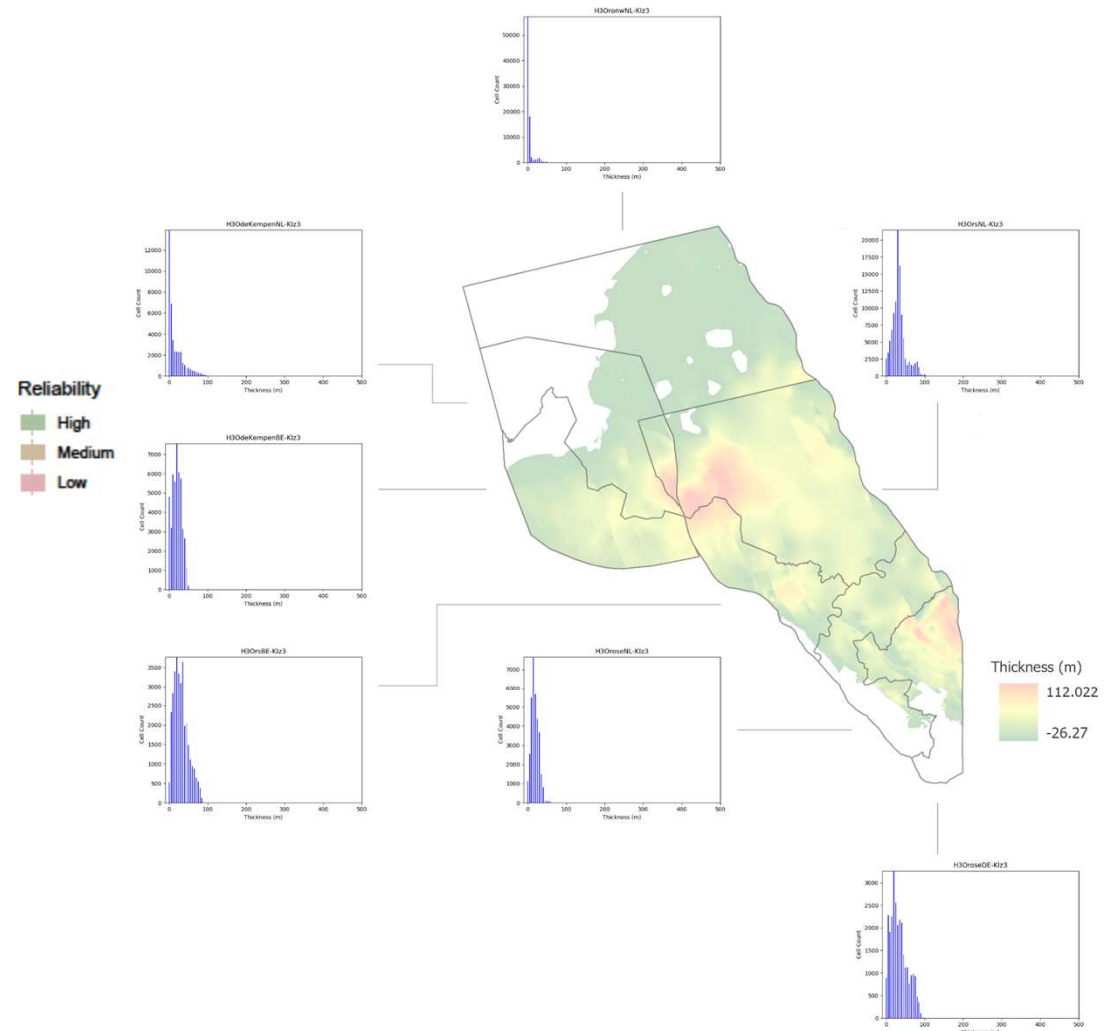
Hydraulic conductivity [m/d] of Klz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall very good agreement between NL-BE-DE data

Thickness [m] of Klz3 by model area



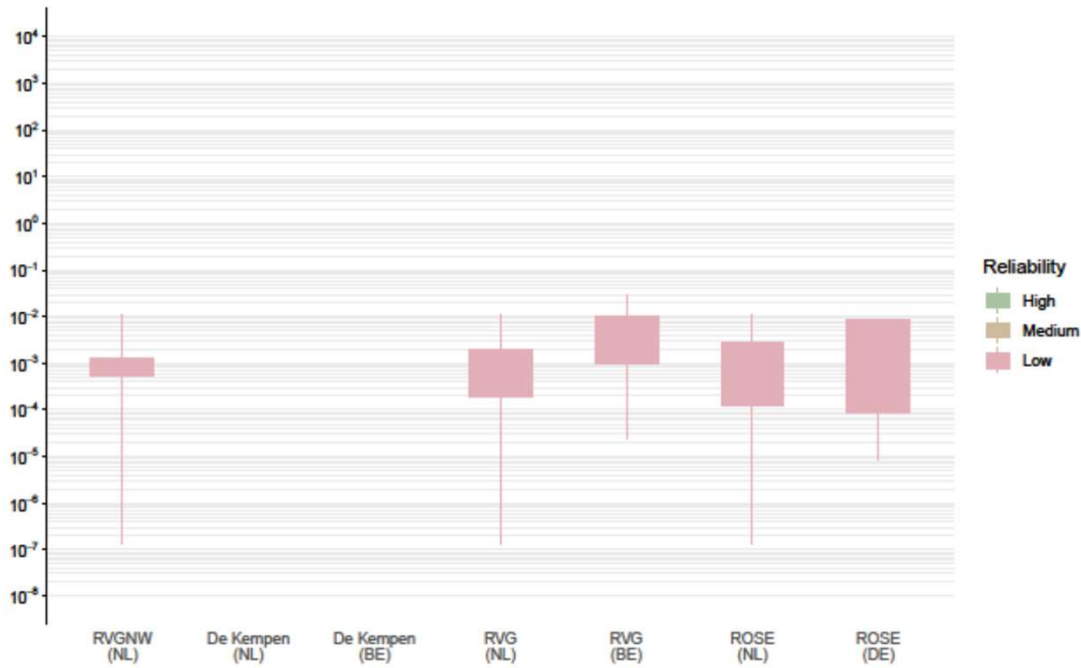
Unit Kik3

NL: Kiezeloöliet Fm., derde kleiige eenheid

BE: Brunssum Clay

DE: Kieseloolith-Fm, Unterer Rotton, Hor. 9A

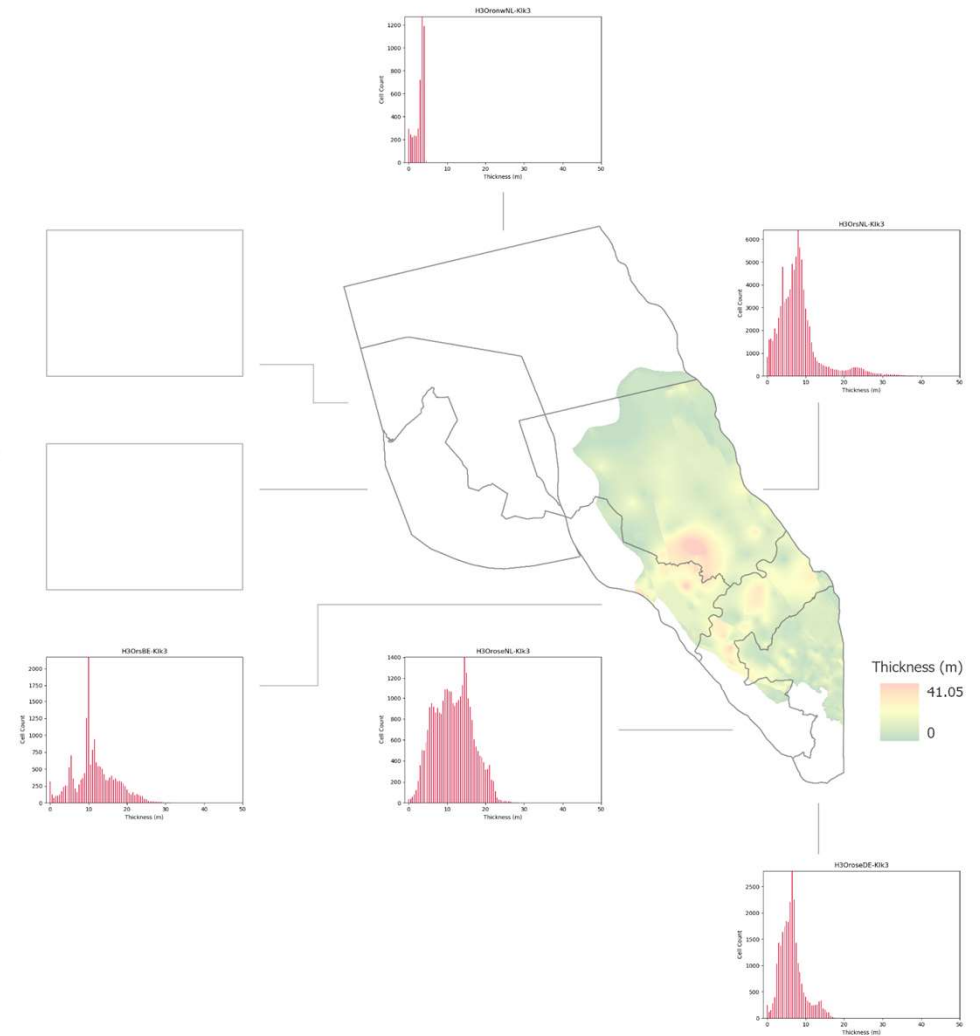
Hydraulic conductivity [m/d] of Kik3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall fair agreement, NL absolute range is based on permeameter tests on small soil samples from the Waalre Formation (WA) that was used as analogue.

Thickness [m] of Kik3 by model area



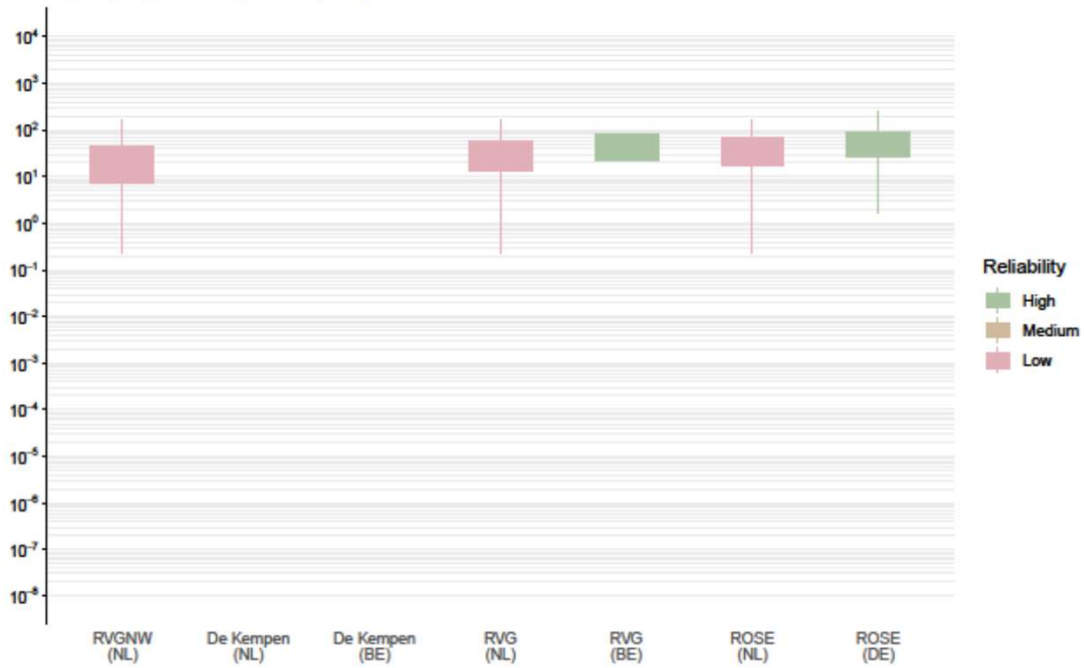
Unit Klz4

NL: Kiezeloöliet Fm., vierde zandige eenheid

BE: Waubach Sand

DE: Kieseloolith-Fm, Hauptkies-Schichten, Hor. 8

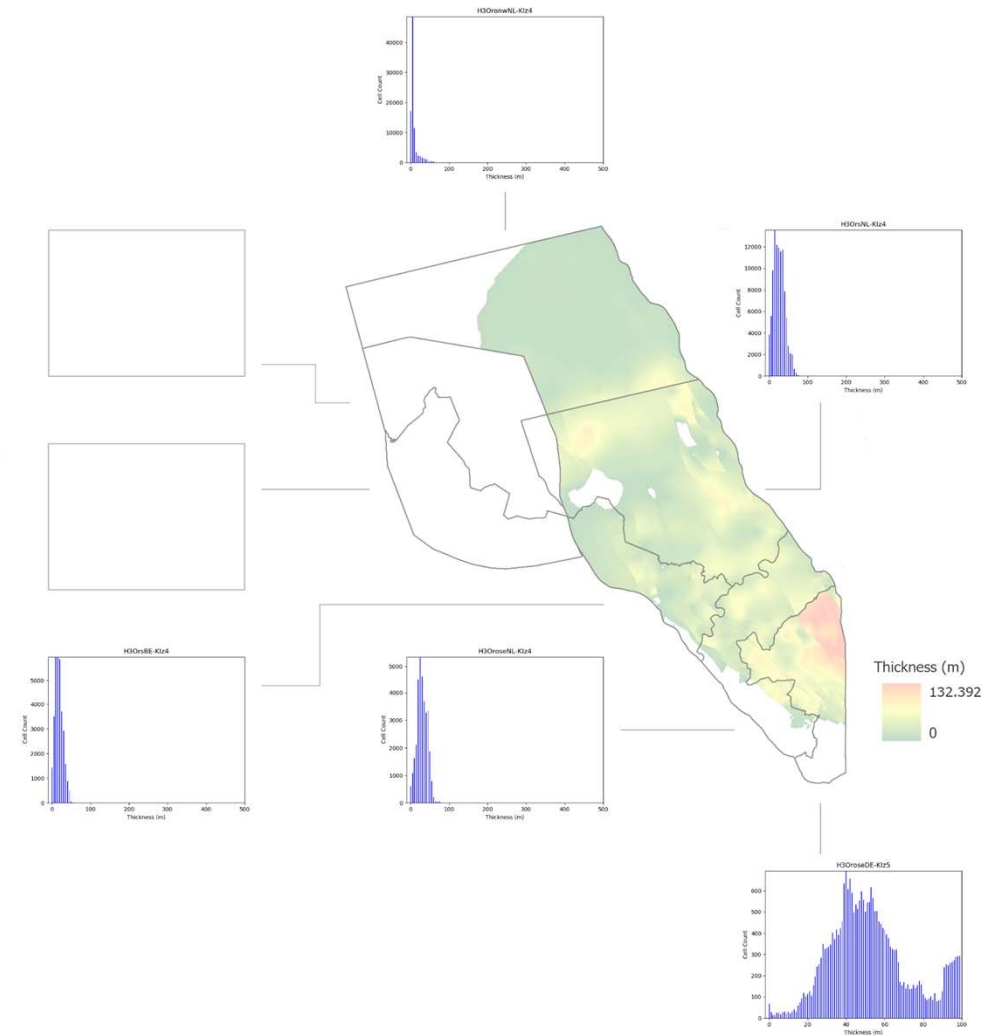
Hydraulic conductivity [m/d] of Klz4 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL-BE-DE data

Thickness [m] of Klz4 by model area



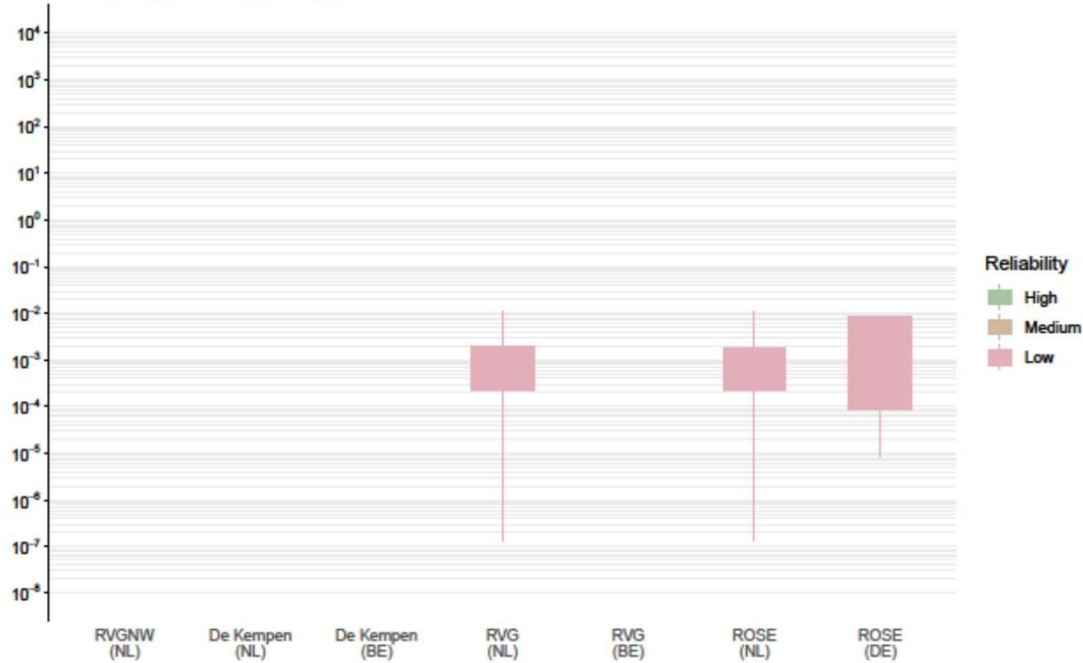
Unit Klk4

NL: Kiezeloöliet Fm., vierde kleiige eenheid

BE:

DE:

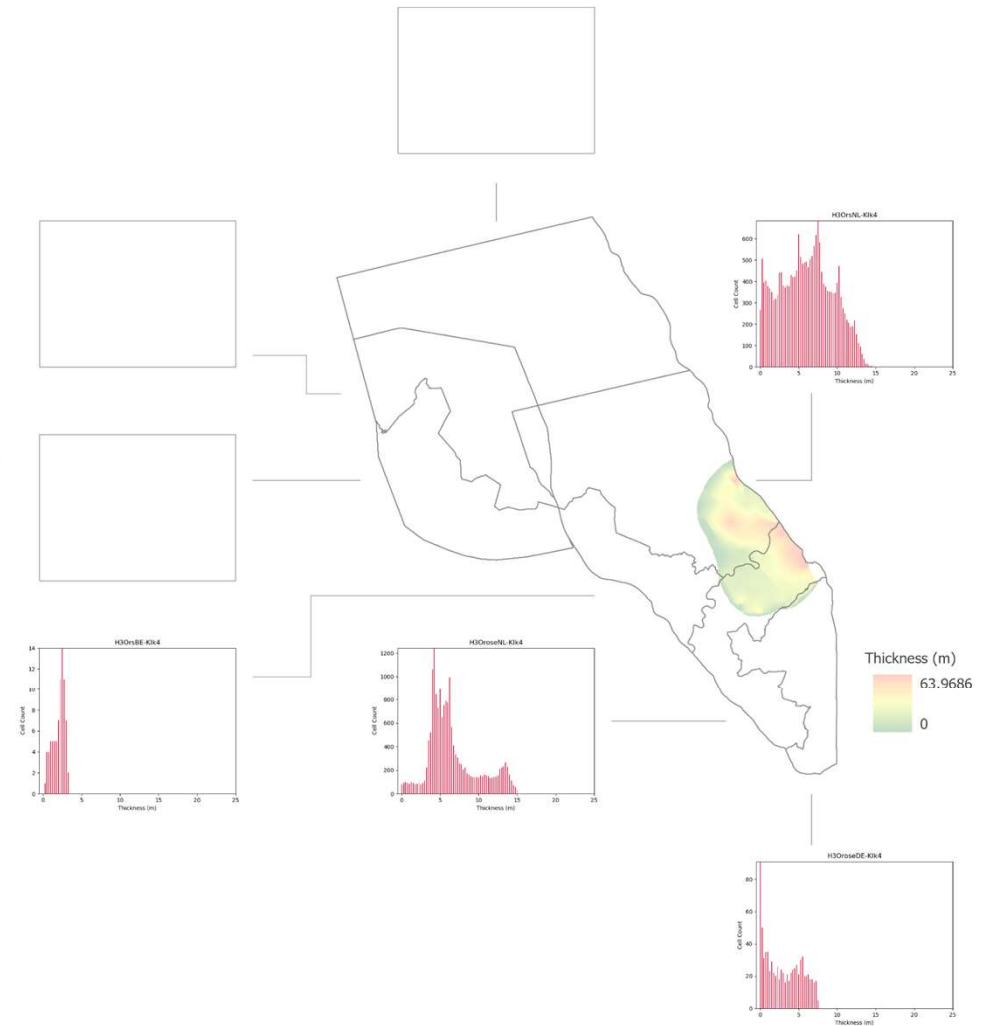
Hydraulic conductivity [m/d] of Klk4 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement between NL and DE data, even though the latter expert range is wider, the reason is the systematic approach in DE, using in general for aquitards ranges covering 2 magnitudes. NL absolute range is based on permeameter tests on small soil samples from the Waalre Formation (WA) that was used as analogue.

Thickness [m] of Klk4 by model area



Unit Klz5

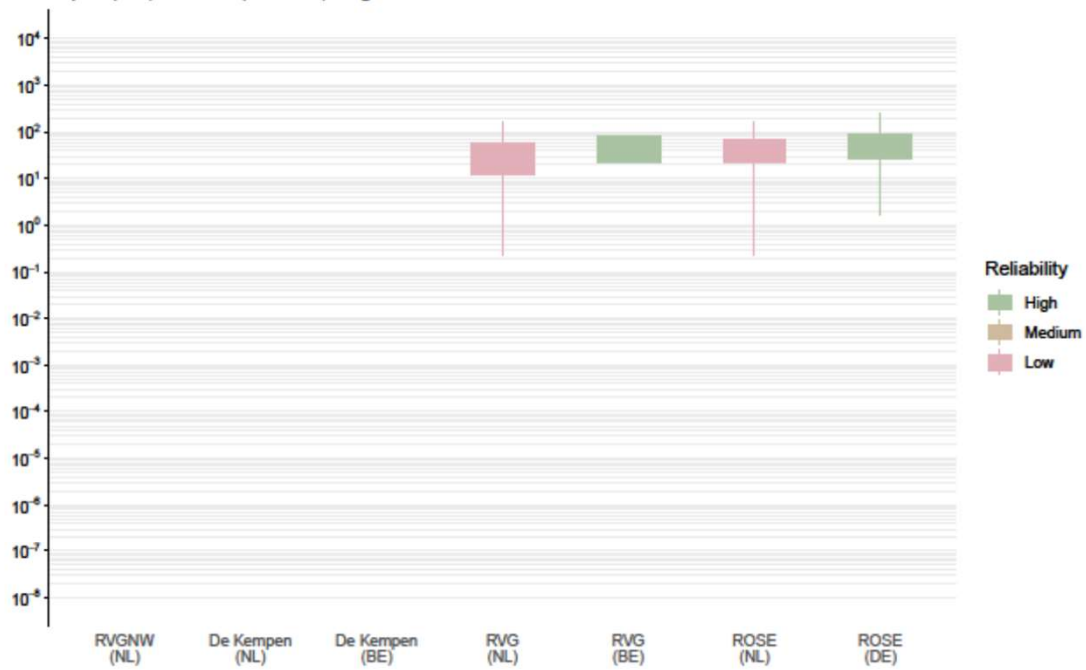
NL: Kiezeloöliet Fm., vijfde zandige eenheid

BE: Waubach Sand

DE: Kieseloolith-Fm, Hauptkies-Schichten, Hor. 8

Hydraulic conductivity [m/d] of Klz5 by model area

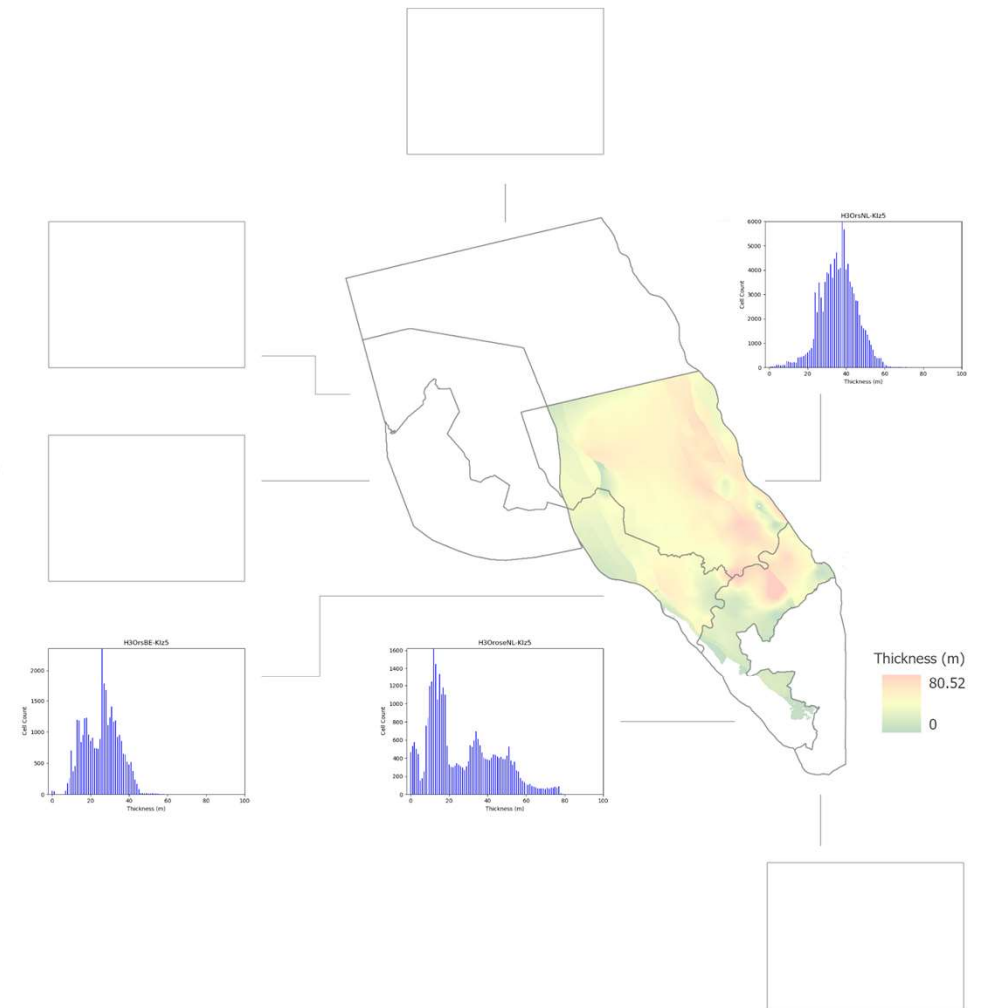
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL-BE-DE data

Thickness [m] of Klz5 by model area



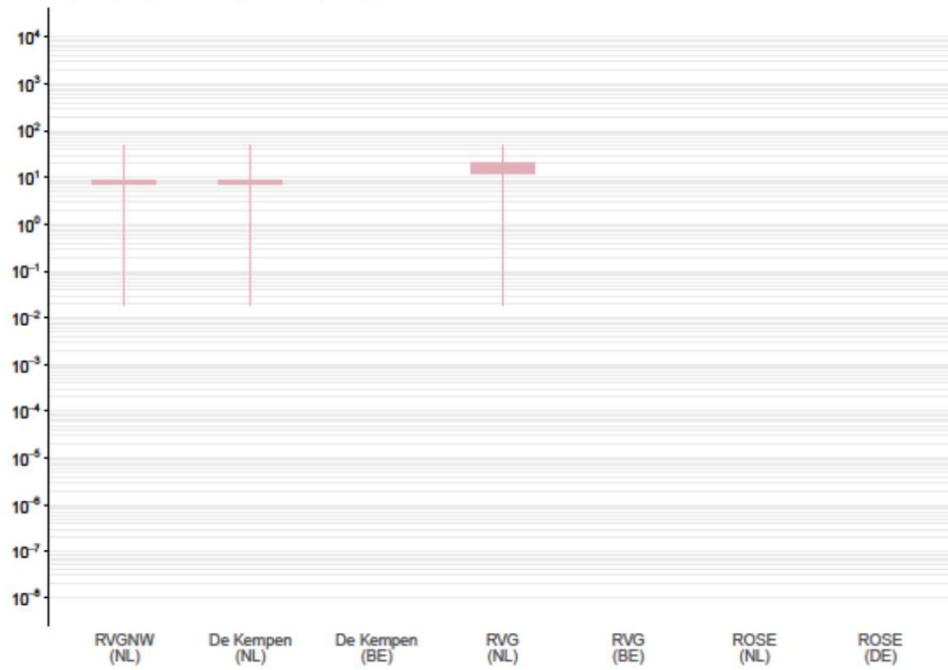
Unit OOz1

NL: Fm. van Oosterhout, 1e zandige eenheid

BE:

DE:

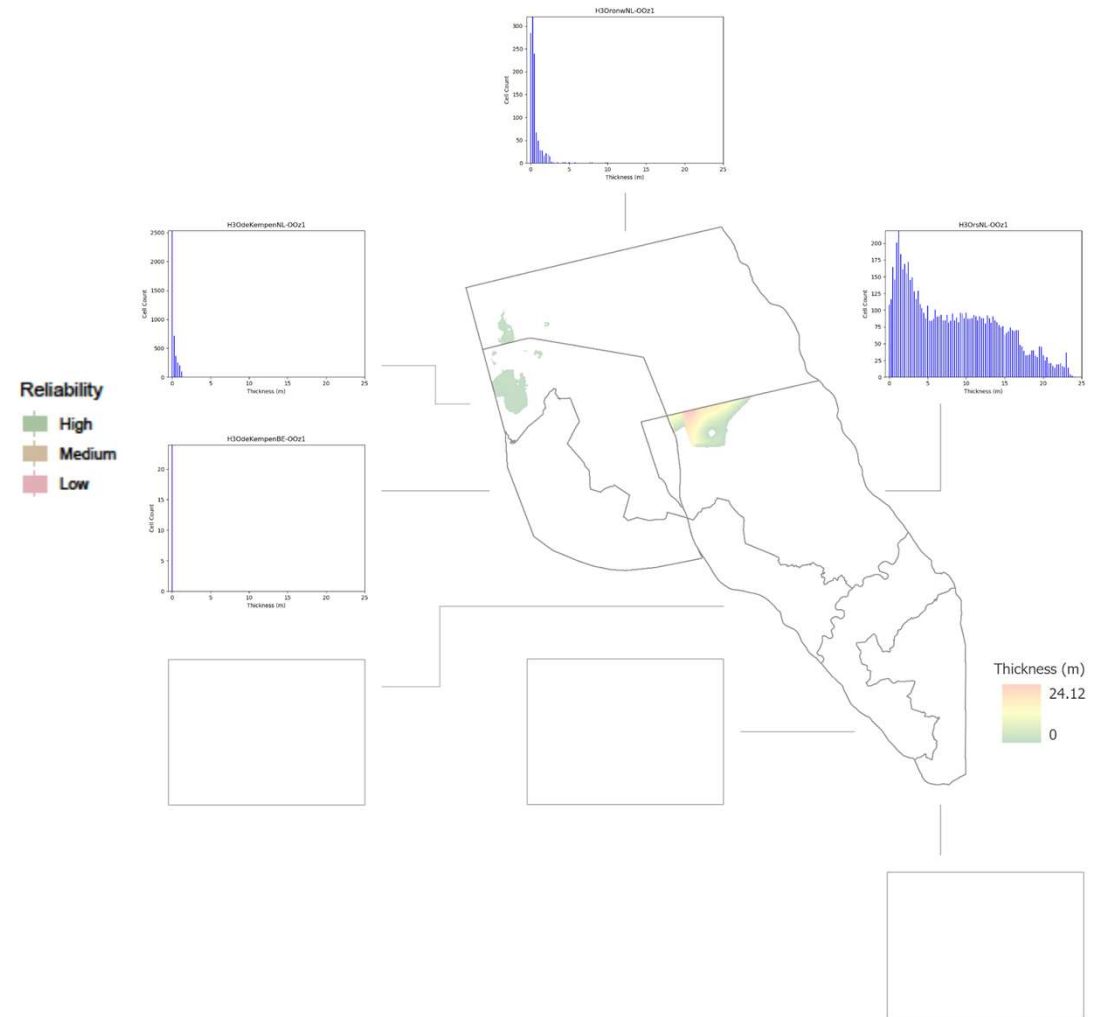
Hydraulic conductivity [m/d] of OOz1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of OOz1 by model area



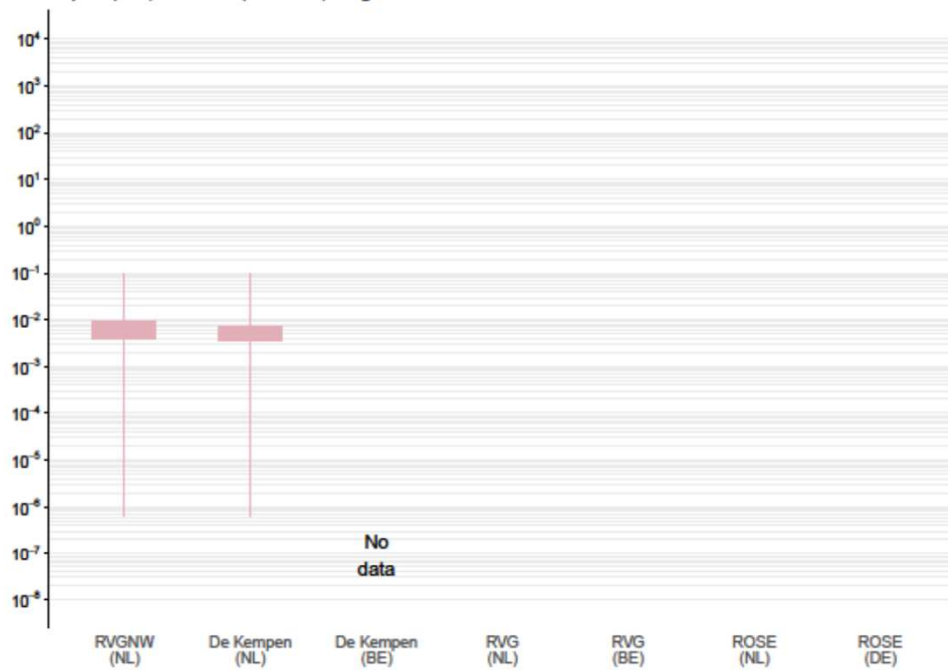
Unit OOK1

NL: Fm. van Oosterhout, 1e kleiige eenheid

BE: Lillo-Kattendijk Formation

DE:

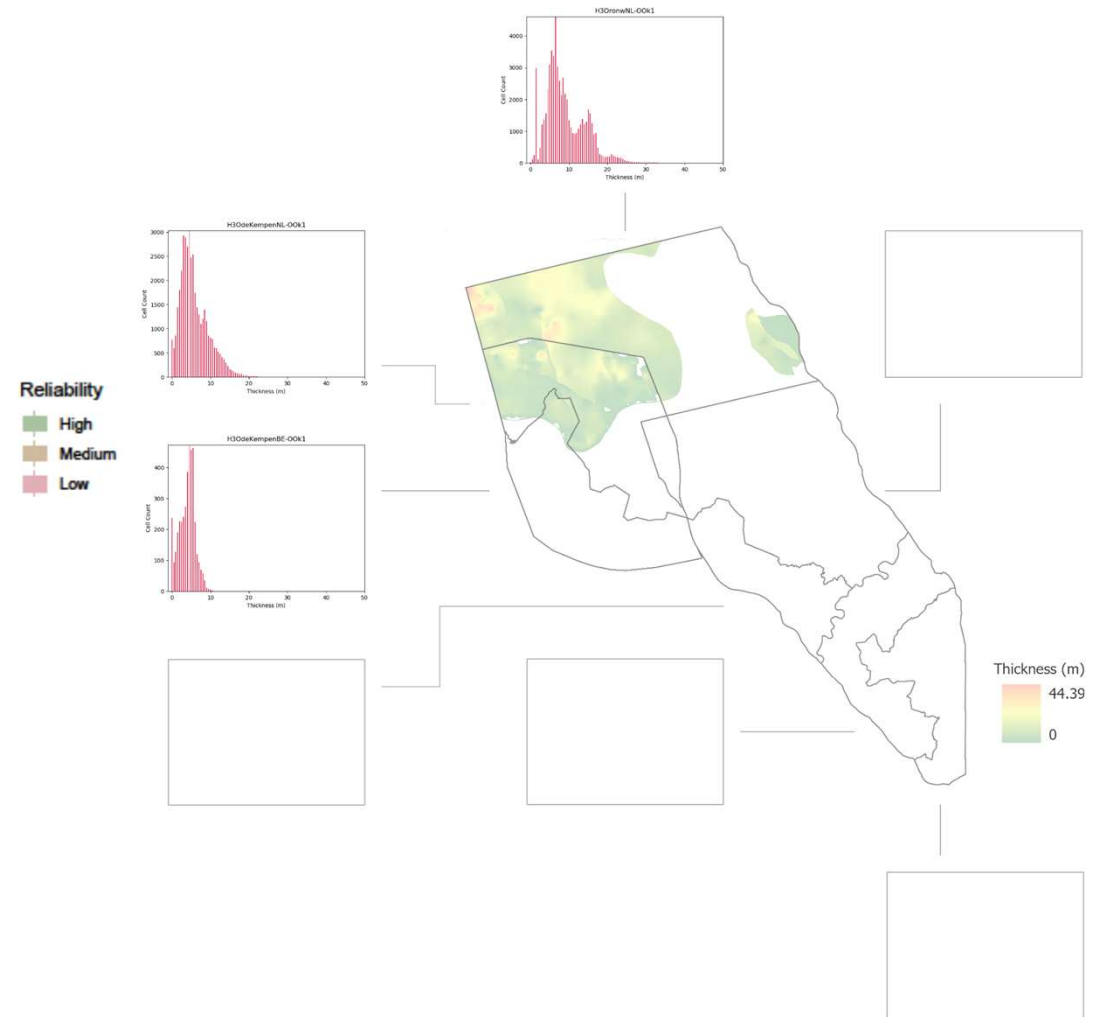
Hydraulic conductivity [m/d] of OOK1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of OOK1 by model area



Unit OOz2

NL: Fm. van Oosterhout, 2e zandige eenheid

BE: Kattendijk-Lillo-Poederlee-Kasterlee Sands

DE:

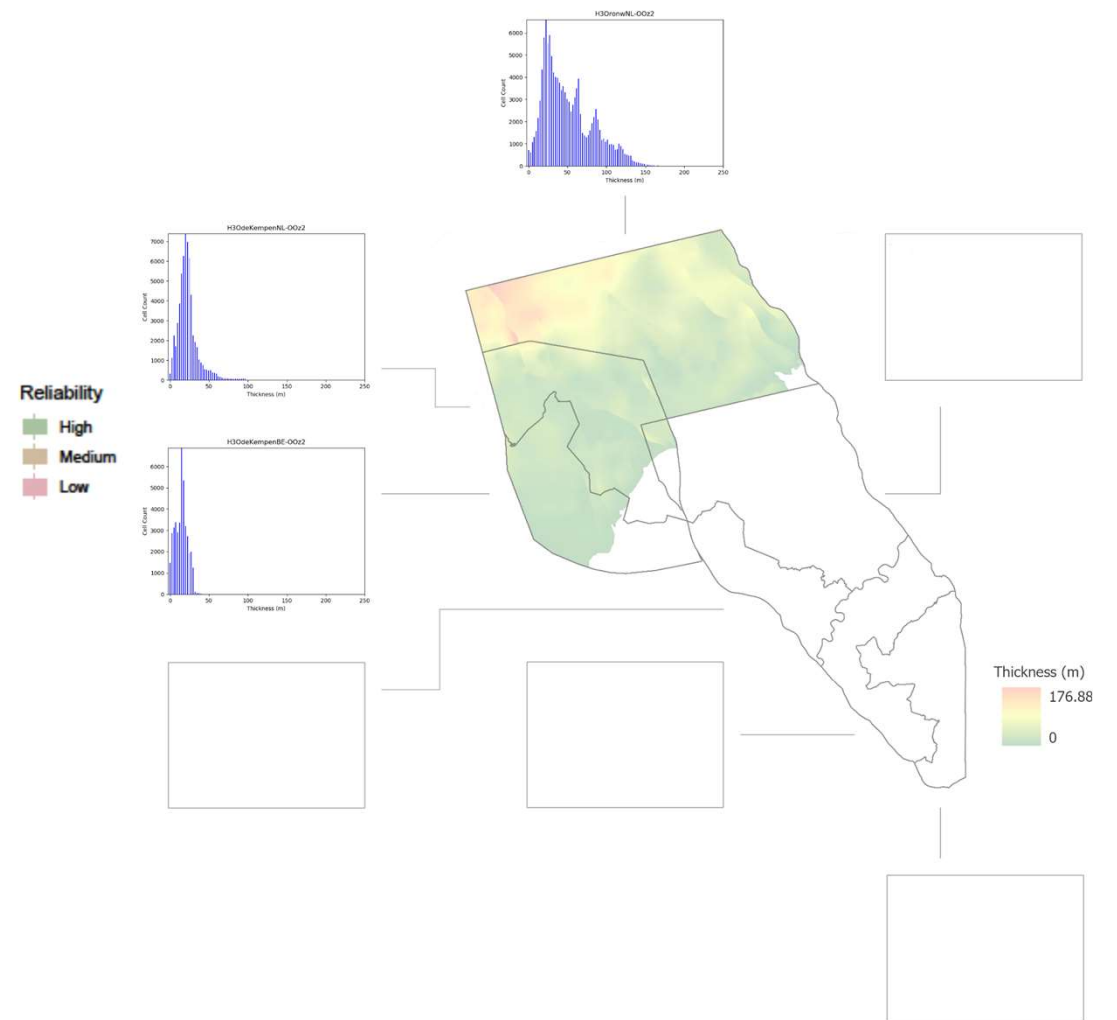
Hydraulic conductivity [m/d] of OOz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL and BE data

Thickness [m] of OOz2 by model area



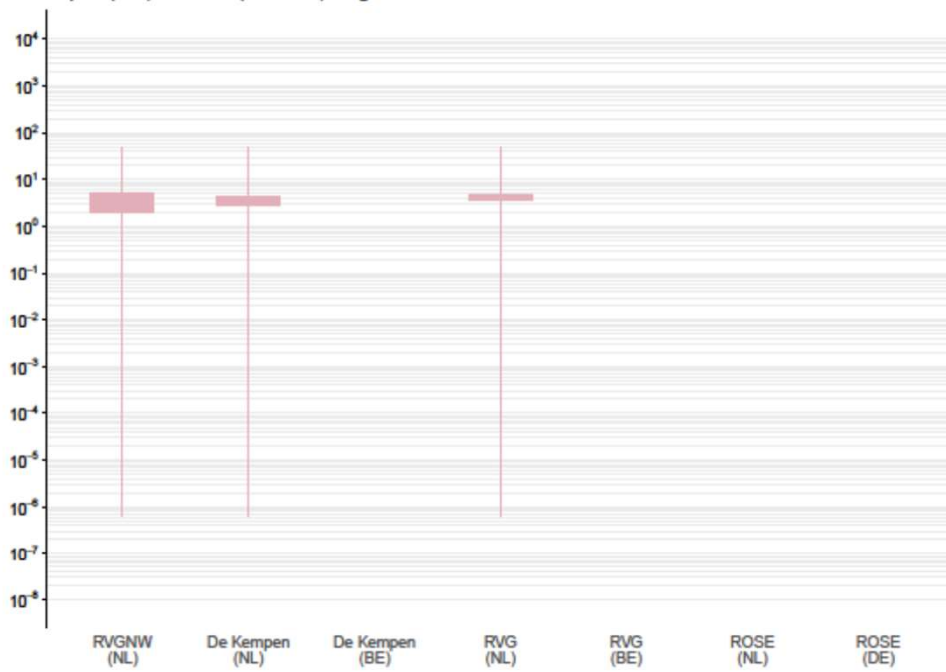
Unit OOc

NL: Fm. van Oosterhout, complexe eenheid

BE:

DE:

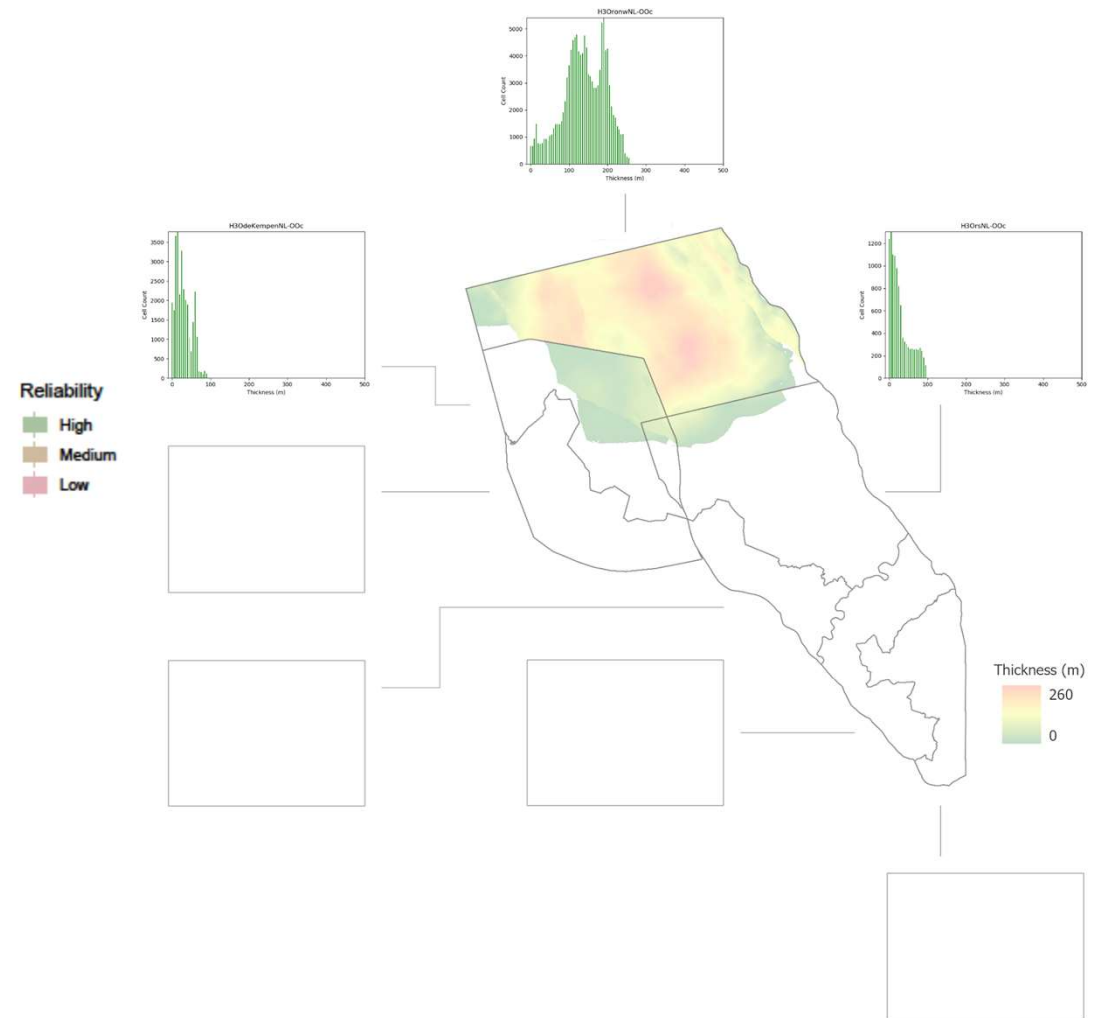
Hydraulic conductivity [m/d] of OOc by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of OOc by model area



Unit IEk1

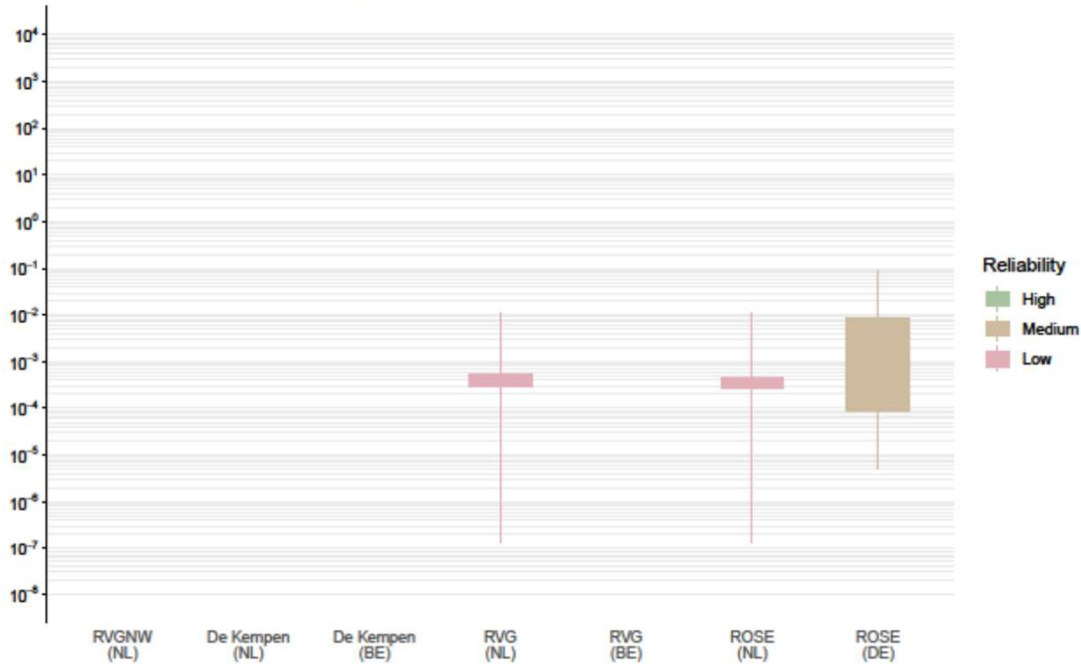
NL: Fm. van Inden, 1e kleiige eenheid

BE:

DE: Inden-Fm., Flöz Schophoven, Hor. 7F

Hydraulic conductivity [m/d] of IEk1 by model area

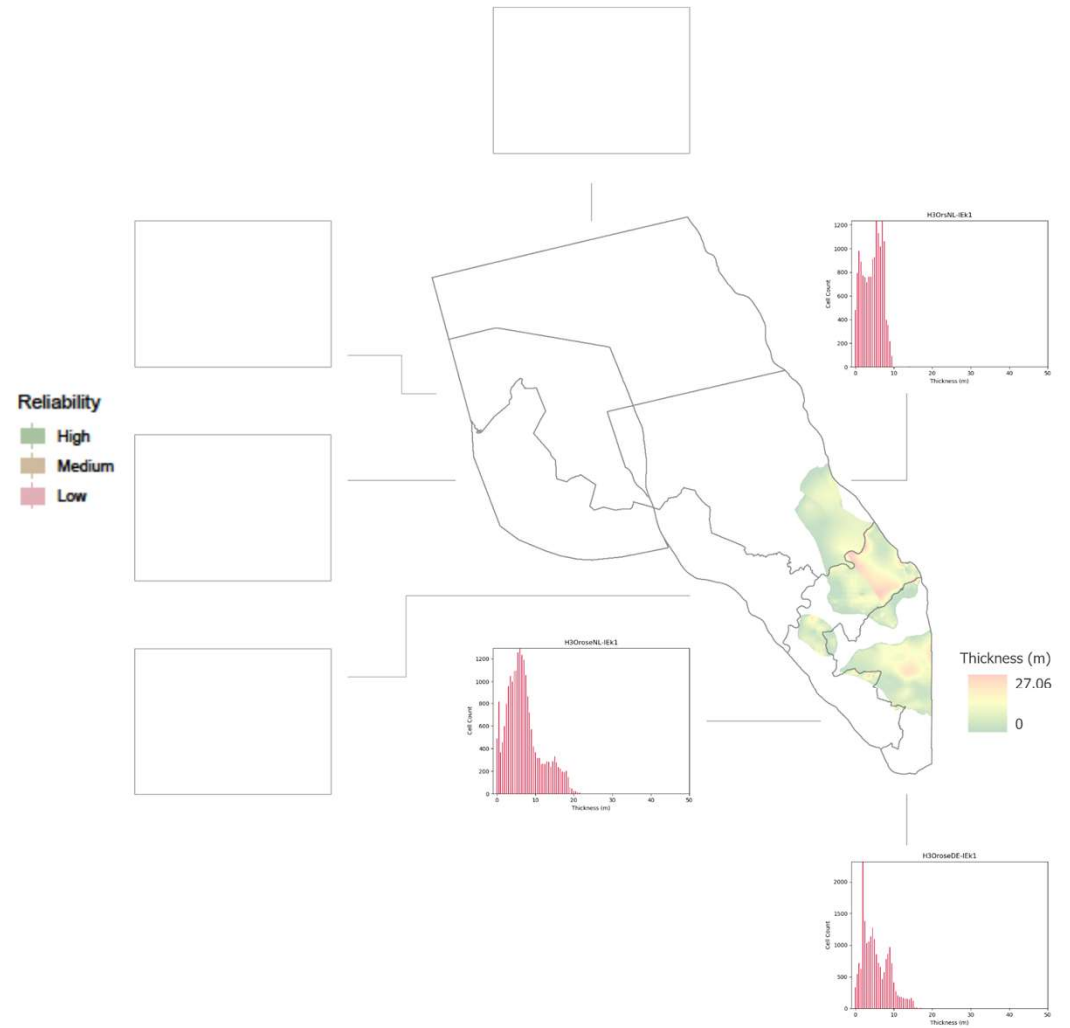
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- The reason for the wider DE expert range is the systematic approach in DE, using in general for aquitards ranges covering 2 magnitudes, higher values could be because of closer distance to source and more sandy interlayers

Thickness [m] of IEk1 by model area



Unit IEz2

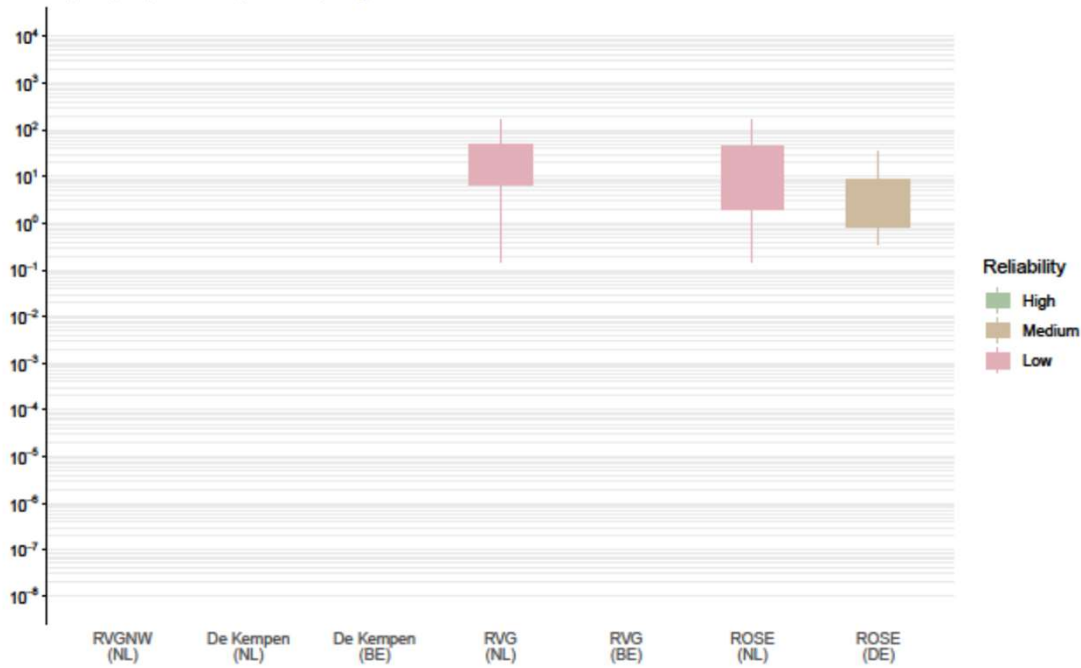
NL: Fm. van Inden, 2e zandige eenheid

BE:

DE: Inden-Fm., Kirchberg- und Schophoven-Sand, Hor. 7C, 7E

Hydraulic conductivity [m/d] of IEz2 by model area

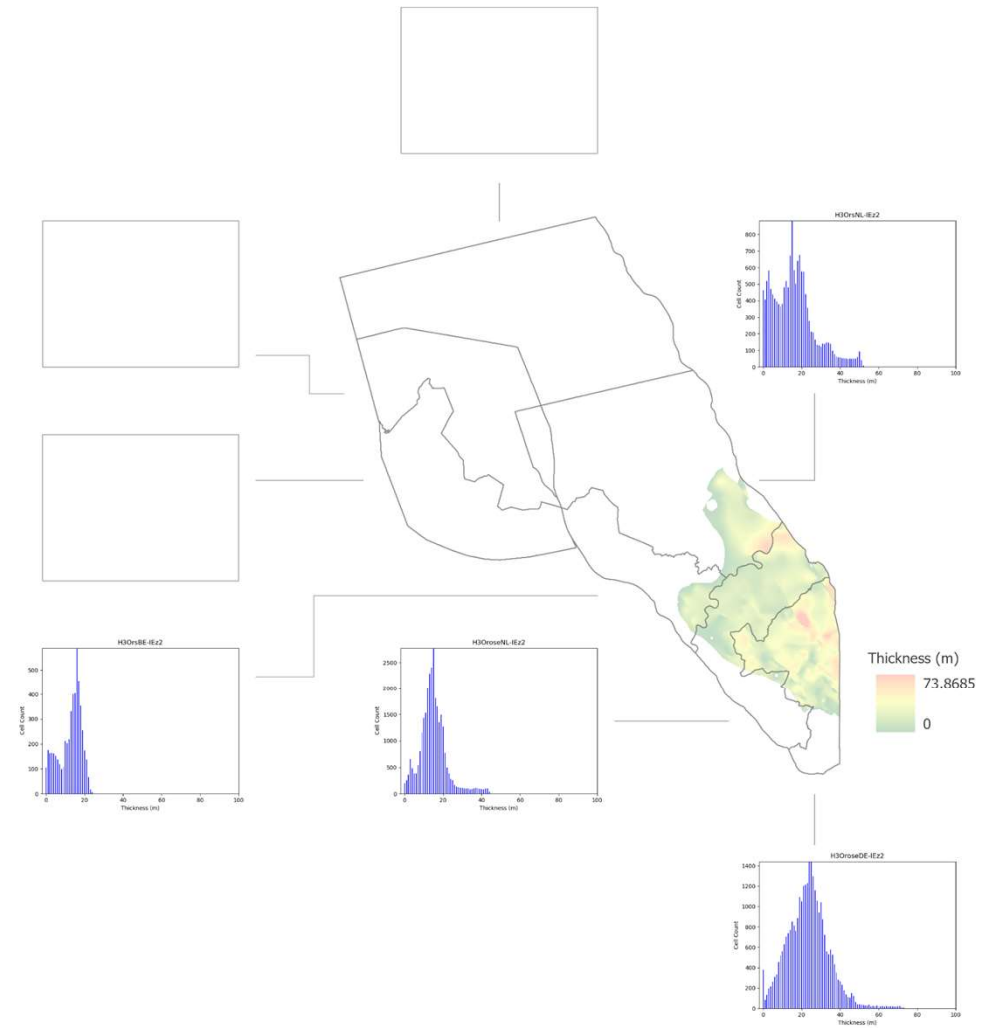
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Relatively good agreement between NL and DE data. Higher NL expert range is based on an analysis of coarseness of the sands.

Thickness [m] of IEz2 by model area



Unit IEk2

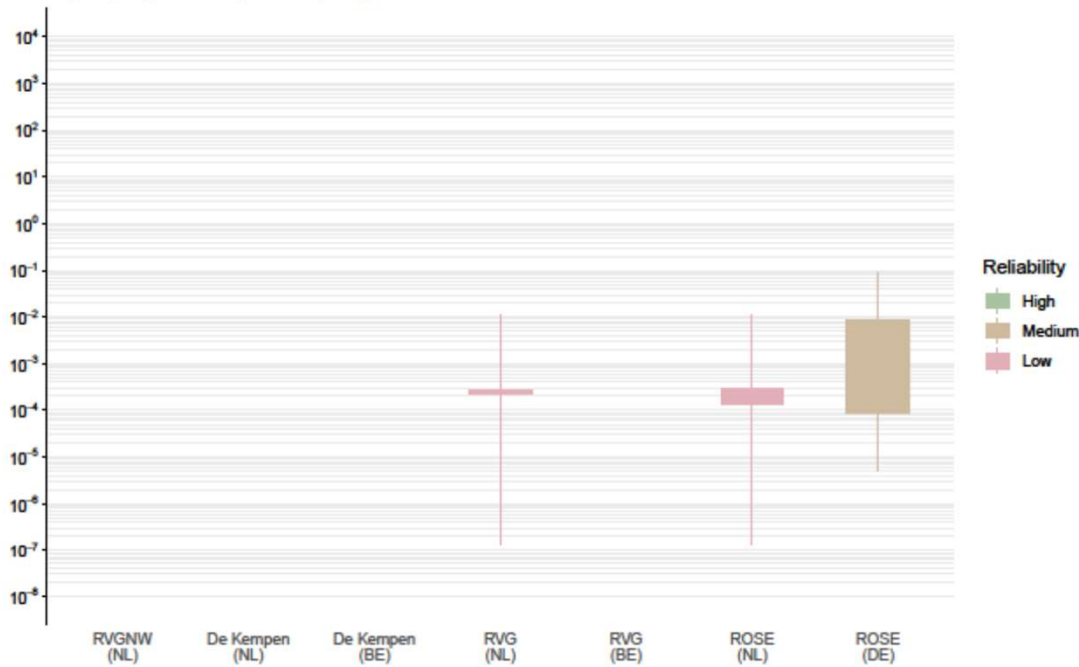
NL: Fm. van Inden, 2e kleiige eenheid

BE:

DE: Inden-Fm., Flöz Friesheim, Hor. 7B

Hydraulic conductivity [m/d] of IEk2 by model area

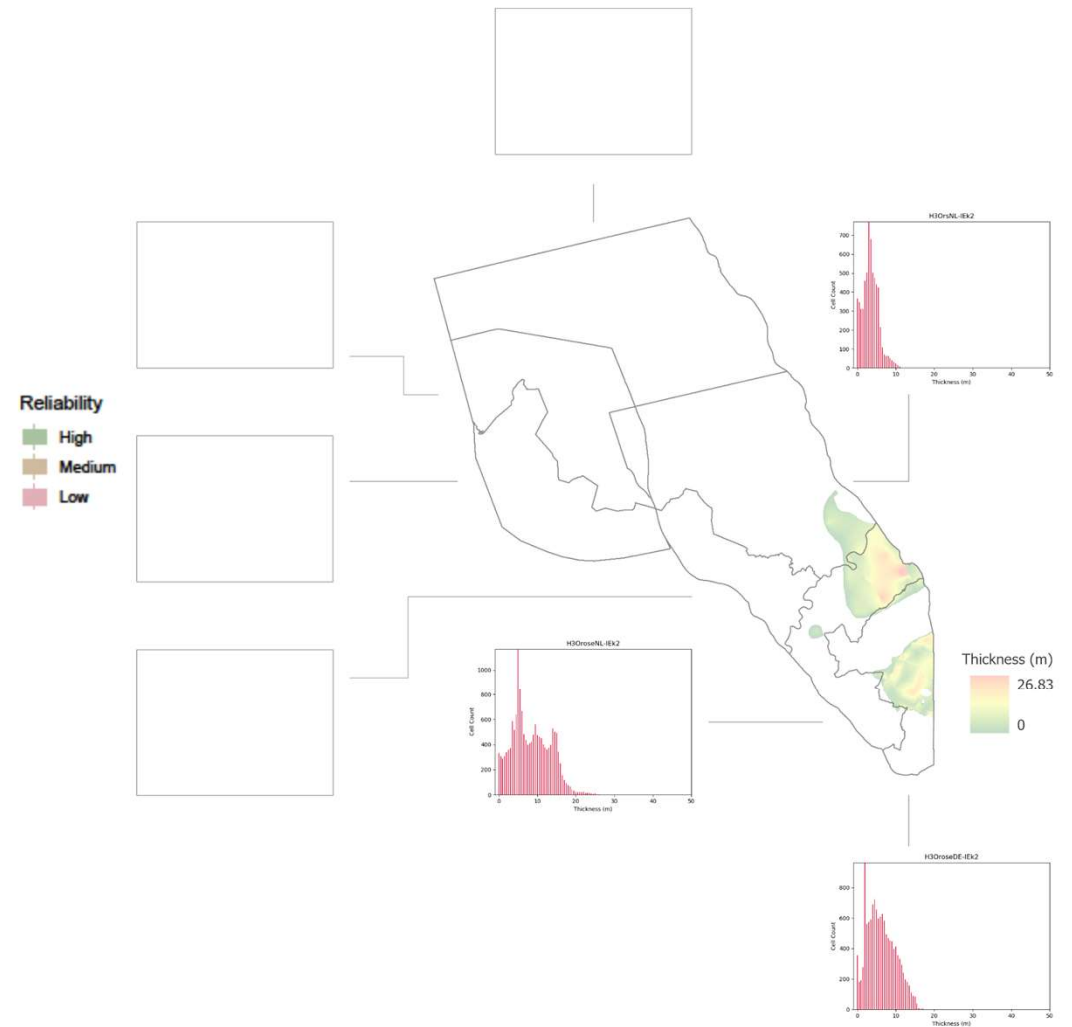
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- The reason for the wider DE expert range is the systematic approach in DE, using in general for aquitards ranges covering 2 magnitudes, higher values could be because of closer distance to source and more sandy interlayers

Thickness [m] of IEk2 by model area



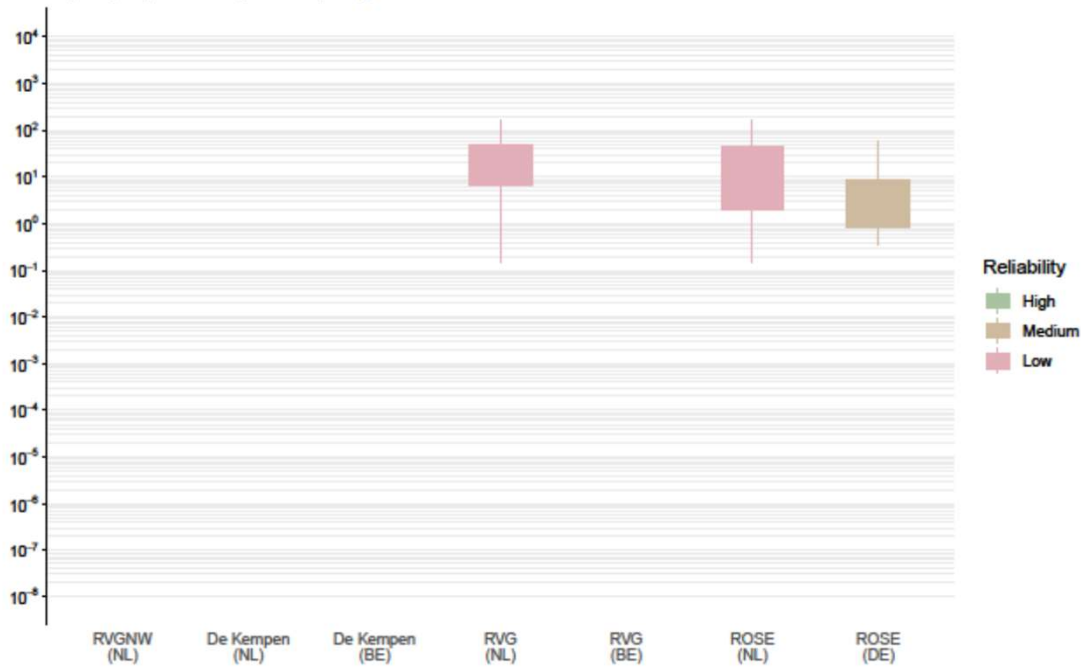
Unit IEz3

NL: Fm. van Inden, 3e zandige eenheid

BE:

DE: Inden-Fm., Friesheim-Sand, Hor. 7A

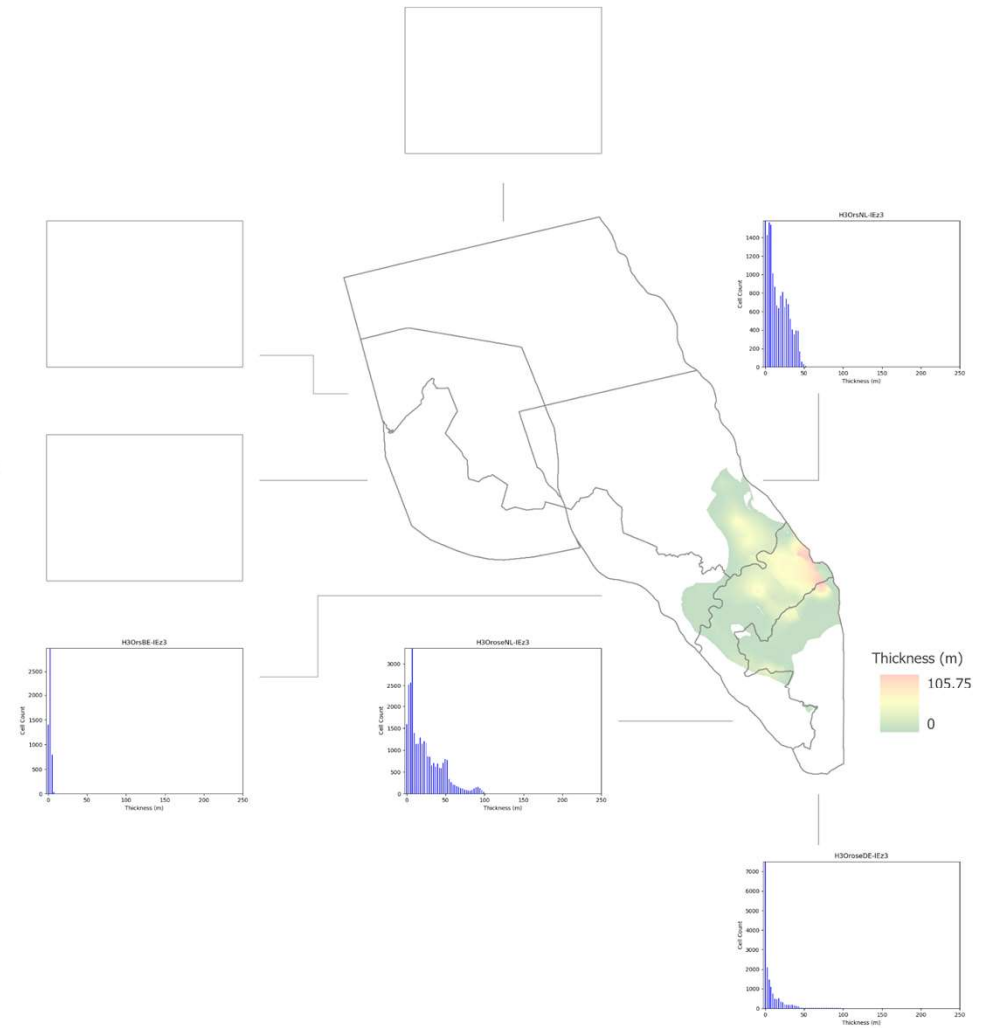
Hydraulic conductivity [m/d] of IEz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Relatively good agreement between NL and DE data. Higher NL expert range is based on an analysis of coarseness of the sands.

Thickness [m] of IEz3 by model area



Unit KLc

NL: Fm. van Breda, 1e zandige eenheid

BE: Clayey transition between Kasterlee and Diest Formations (Kasterlee Clay)

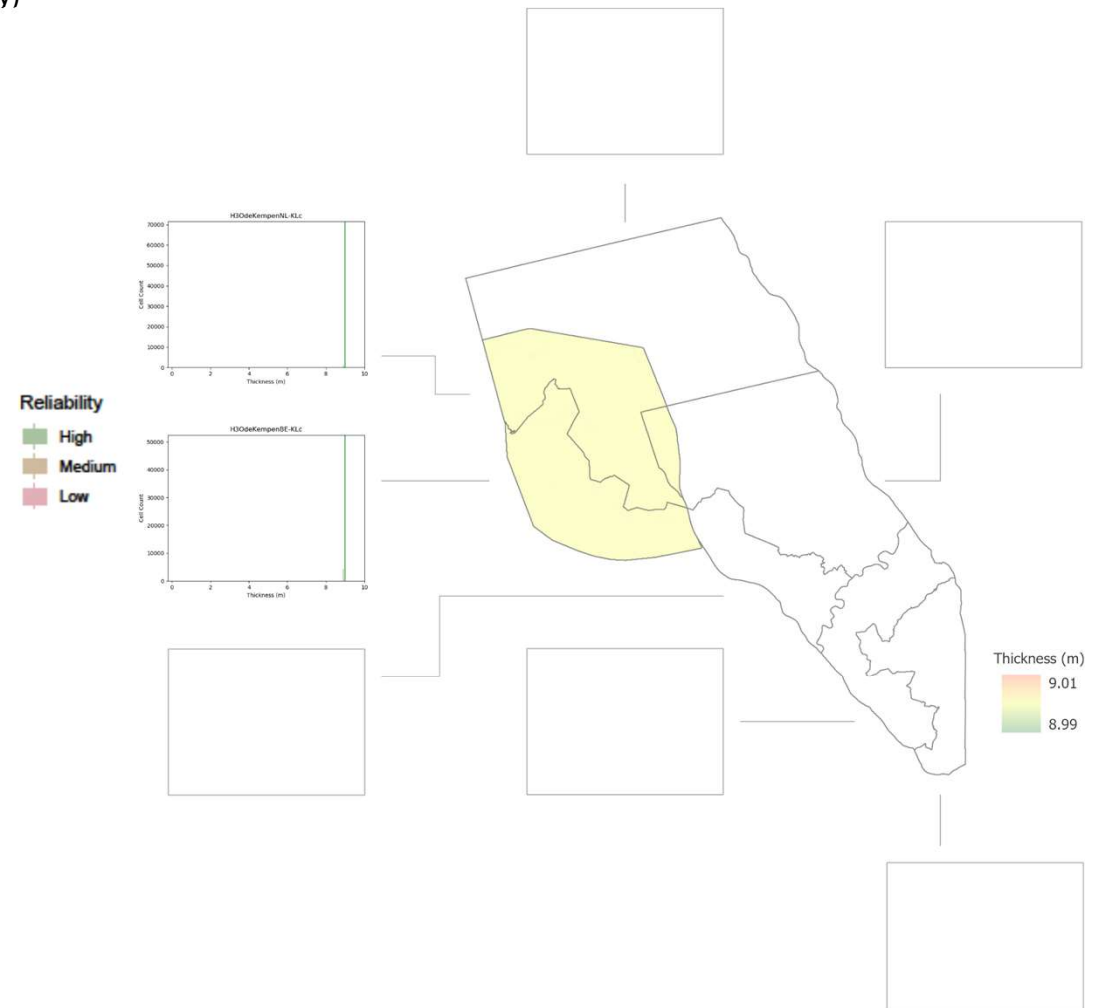
DE:

Hydraulic conductivity [m/d] of KLc by model area

Expert (box) and data (whiskers) ranges



Thickness [m] of KLc by model area



Notes on observed trends and differences:

- Good agreement between NL and BE data, BE expert range is small as a result of many consistent local data

Unit BRz1a

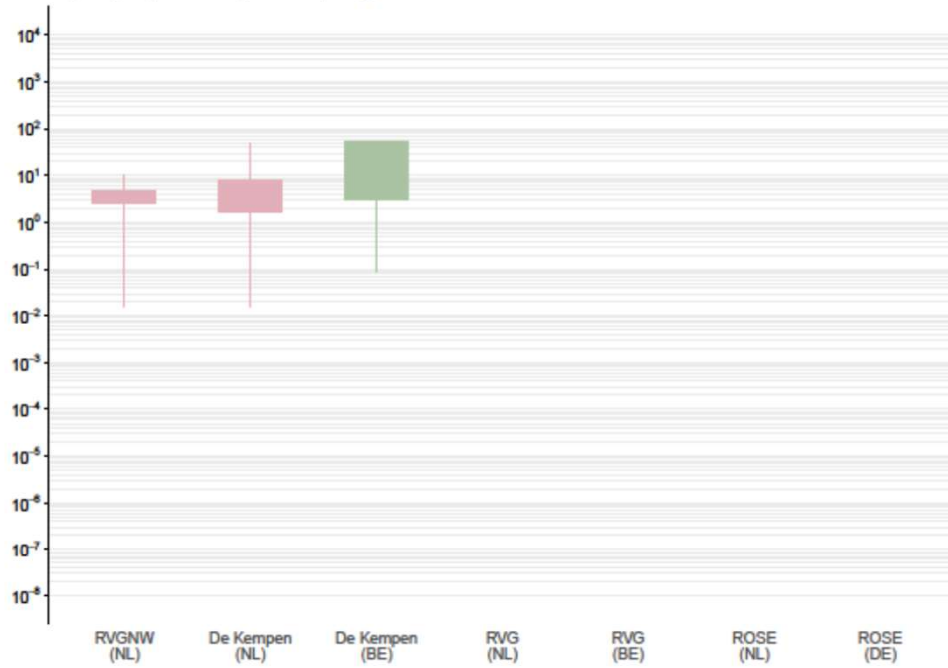
NL: Fm. van Breda, 1e zandige eenheid

BE: Diest Formation

DE:

Hydraulic conductivity [m/d] of BRz1a by model area

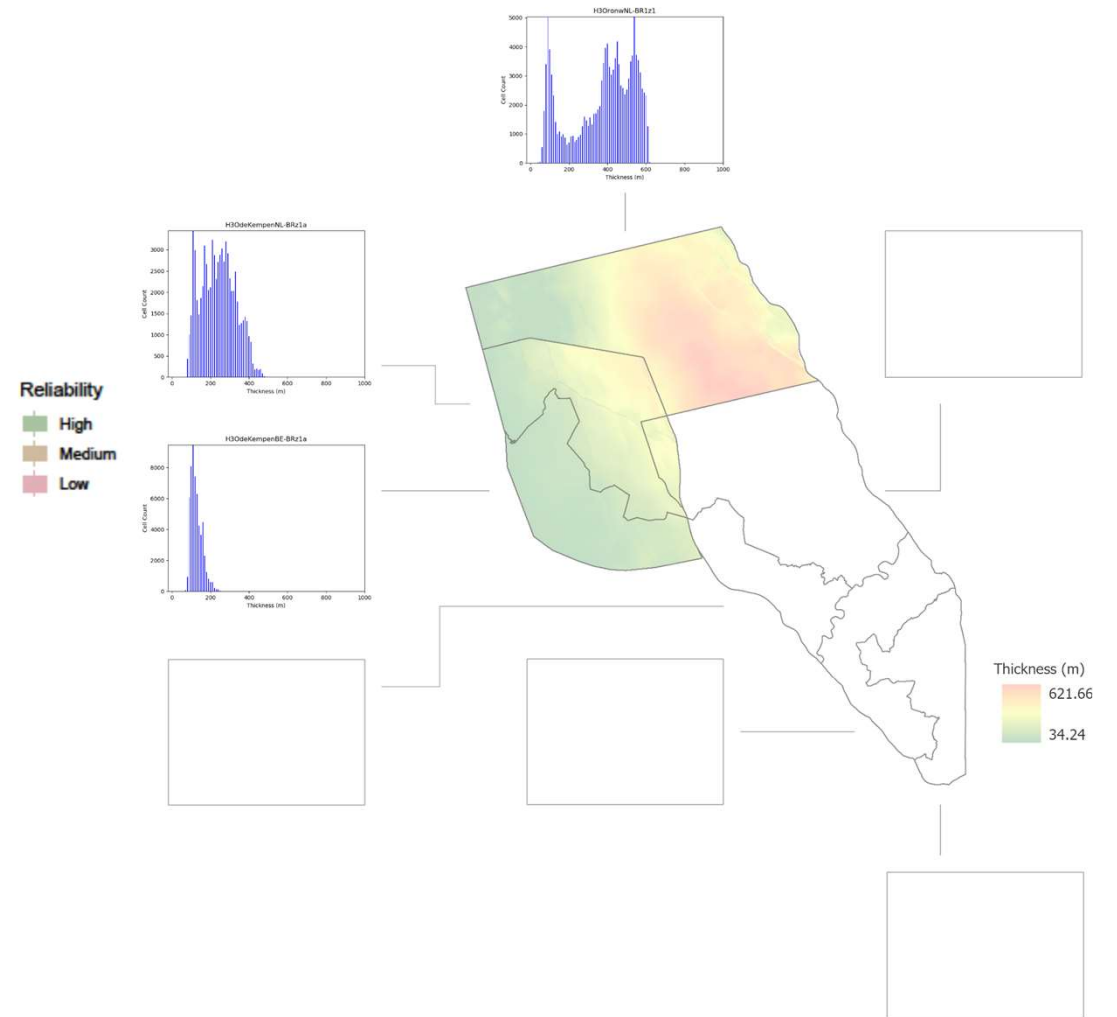
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement between NL and BE data, the slightly larger BE values may be due to palaeogeographical differences

Thickness [m] of BRz1a by model area



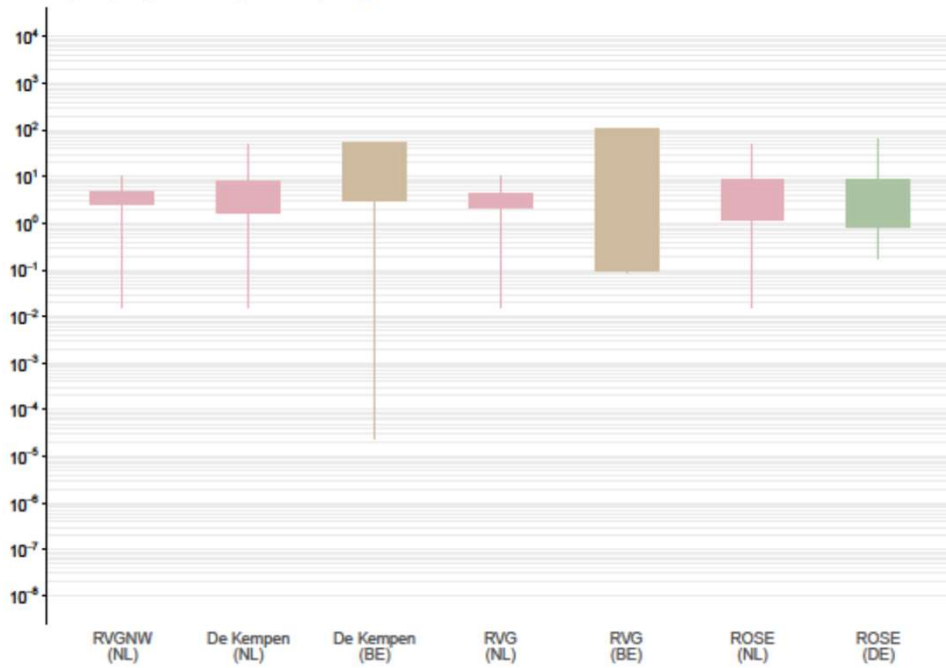
Unit BRz1

NL: Fm. van Breda, 1e zandige eenheid

BE: Diest and Berchem Formation

DE: Ville-Fm., Neurath-Sand, Hor. 6D

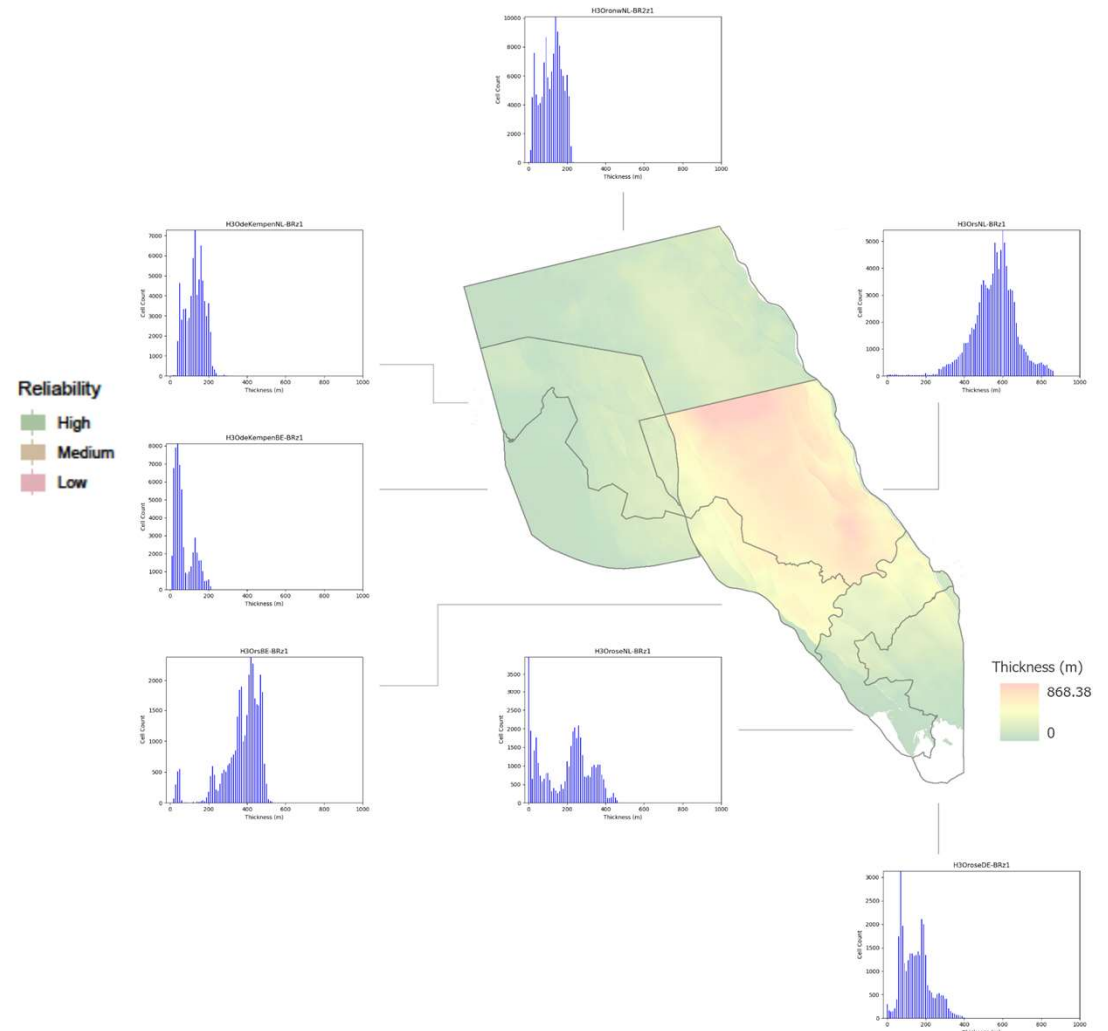
Hydraulic conductivity [m/d] of BRz1 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- BE data show very large ranges, because as a result of the correlation exercise BRz1 includes two different formations with varying K values (Diest and Bolderberg in RVG, and Diest and Berchem in De Kempen)

Thickness [m] of BRz1 by model area



Unit V1b1

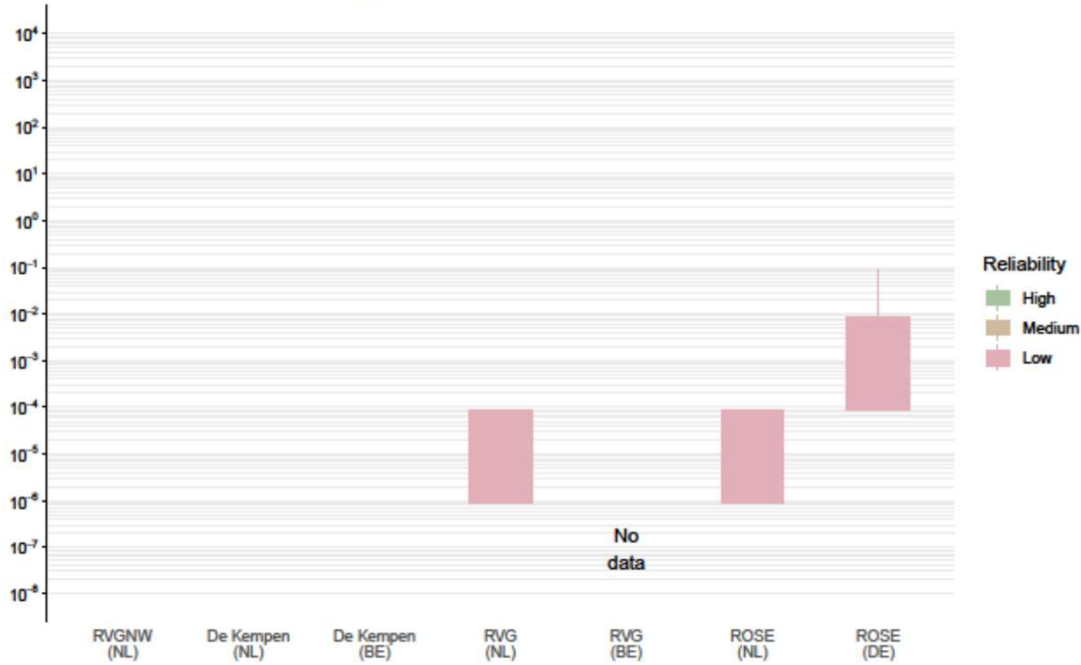
NL: Fm. van Ville, 1e bruinkooleenheid

BE: Miocene Aquifer System

DE: Ville-Fm., Flöz Frimmersdorf, Hor. 6C

Hydraulic conductivity [m/d] of V1b1 by model area

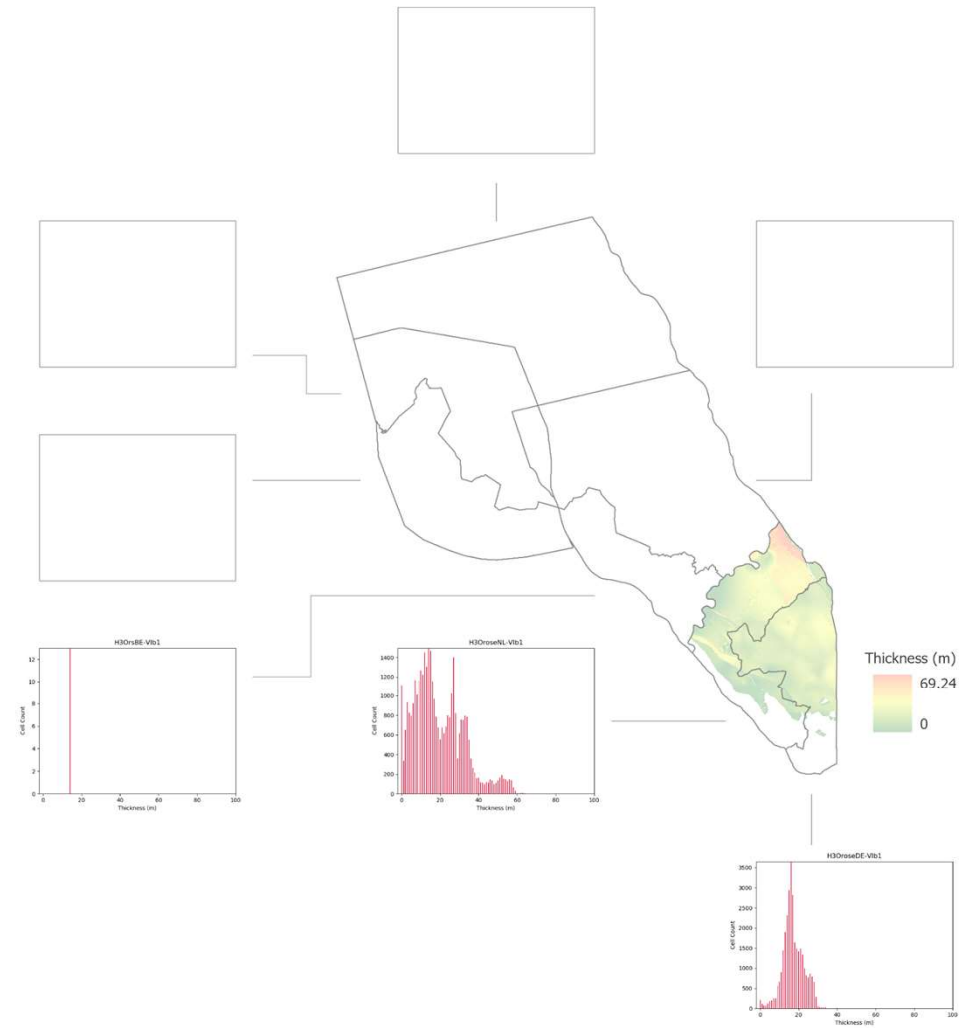
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- The reasons for the significantly higher values for DE project area are not clear and should be investigated in follow-up projects. Due to a lack of data NL values are based on German information.

Thickness [m] of V1b1 by model area



Unit BRz3

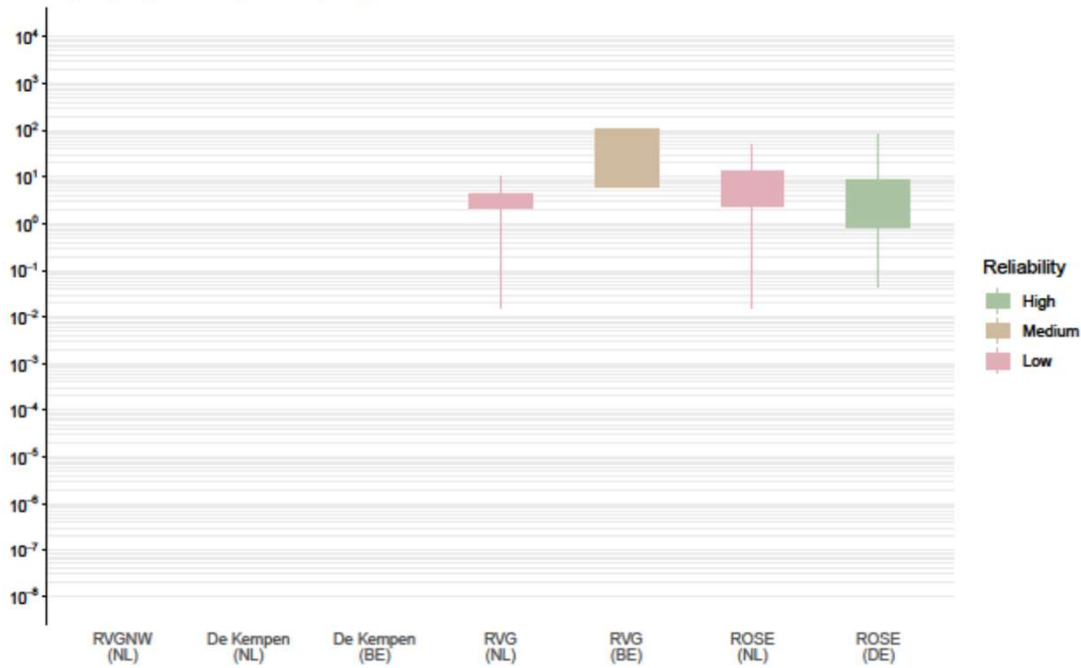
NL: Fm. van Breda, 3e zandige eenheid

BE: Bolderberg Formation

DE: Ville-Fm., Frimmersdorf-Sand, Hor. 6B

Hydraulic conductivity [m/d] of BRz3 by model area

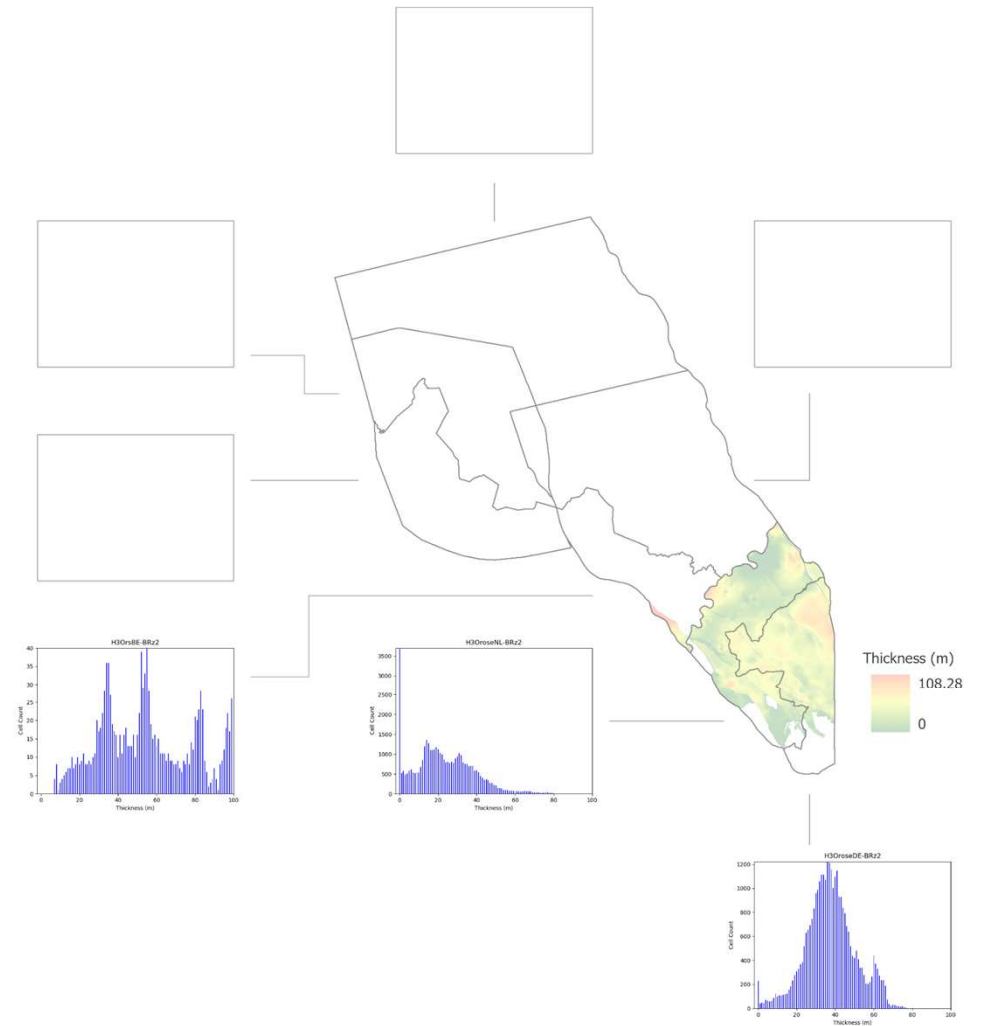
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement between NL-BE-DE data; BE expert range for RVG is rather large, even though this unit correlates with one formation only (Bolderberg), the reason for this large range remains unknown

Thickness [m] of BRz3 by model area



Unit V1b2

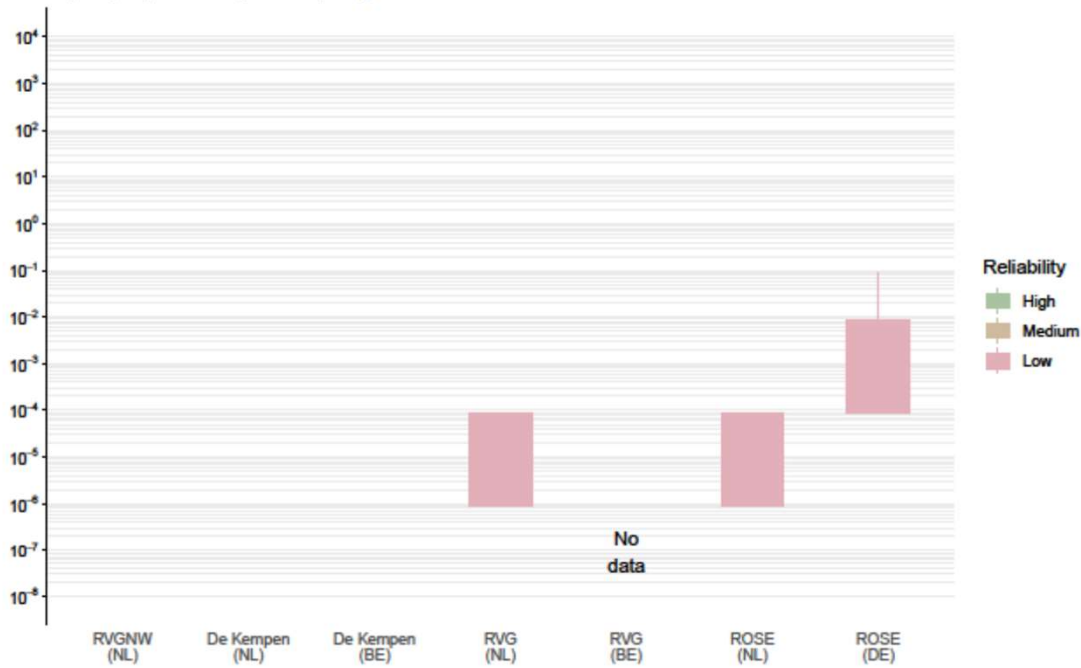
NL: Fm. van Ville, 2e bruinkooleenheid

BE: Miocene Aquifer System

DE: Ville-Fm., Flöz Morken I, Hor. 6A

Hydraulic conductivity [m/d] of V1b2 by model area

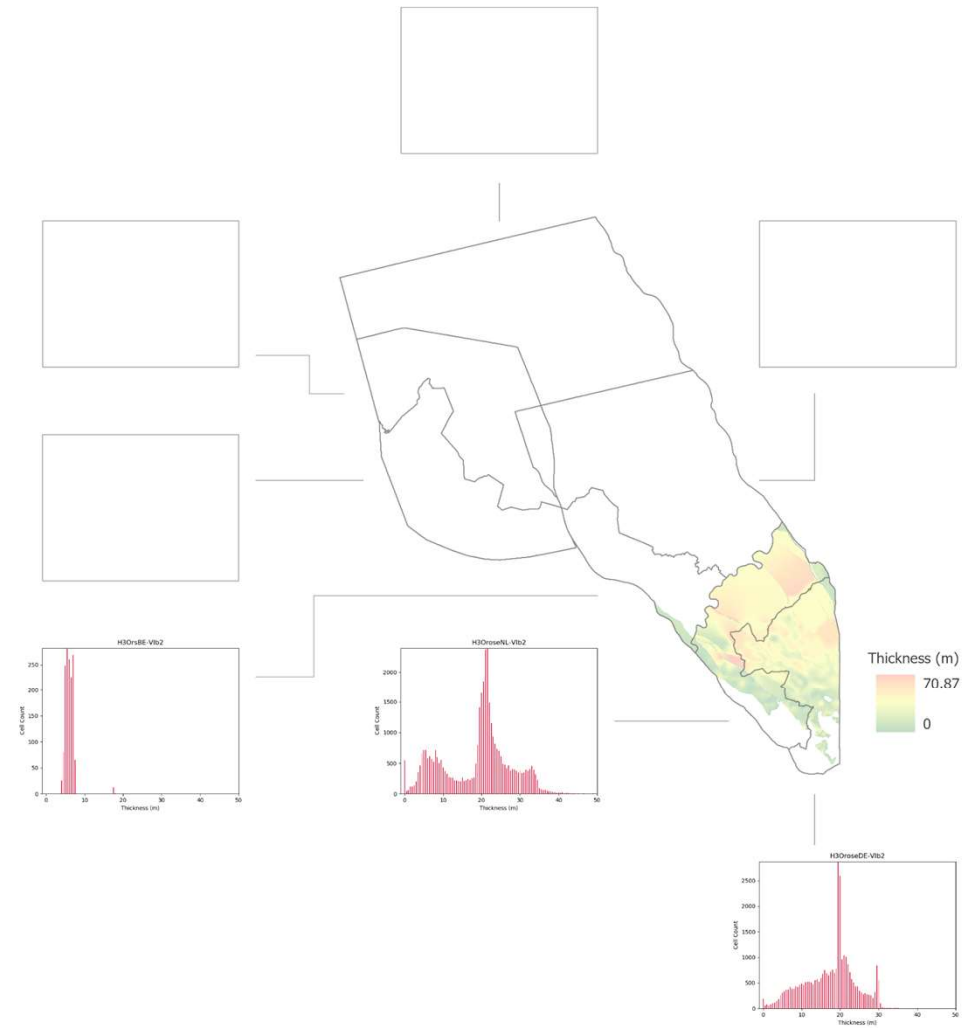
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- The reasons for the significantly higher values for DE project area are not clear and should be investigated in follow-up projects. Due to a lack of data NL values are based on German information.

Thickness [m] of V1b2 by model area



Unit BRz4

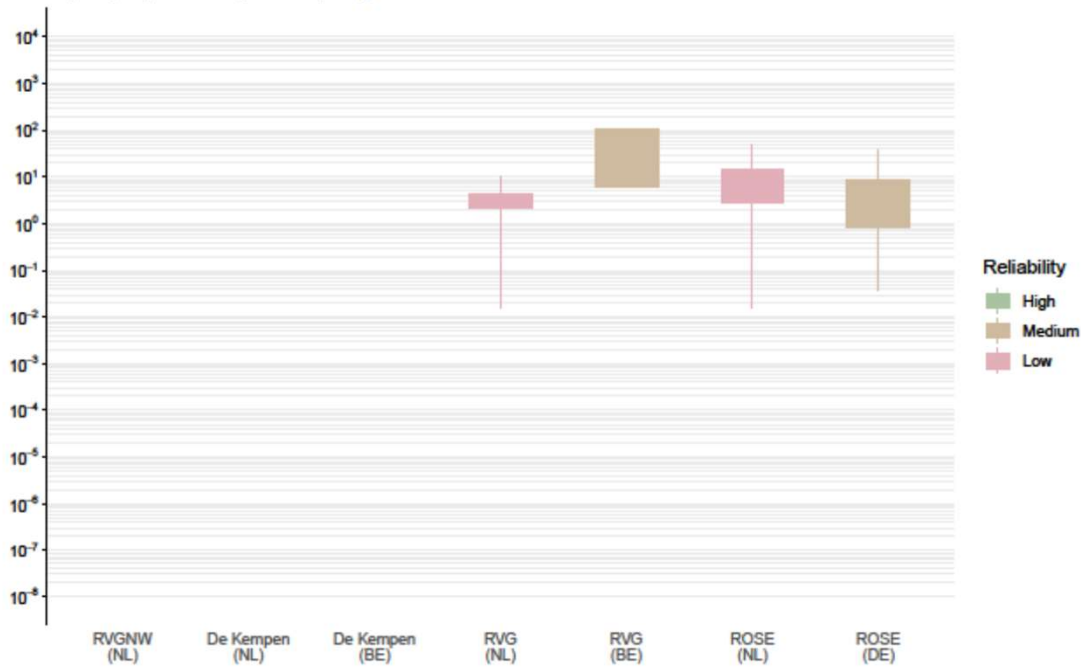
NL: Fm. van Breda, 4e zandige eenheid

BE: Bolderberg Formation

DE: Breda-Fm., Kakert-Sub-Fm.

Hydraulic conductivity [m/d] of BRz4 by model area

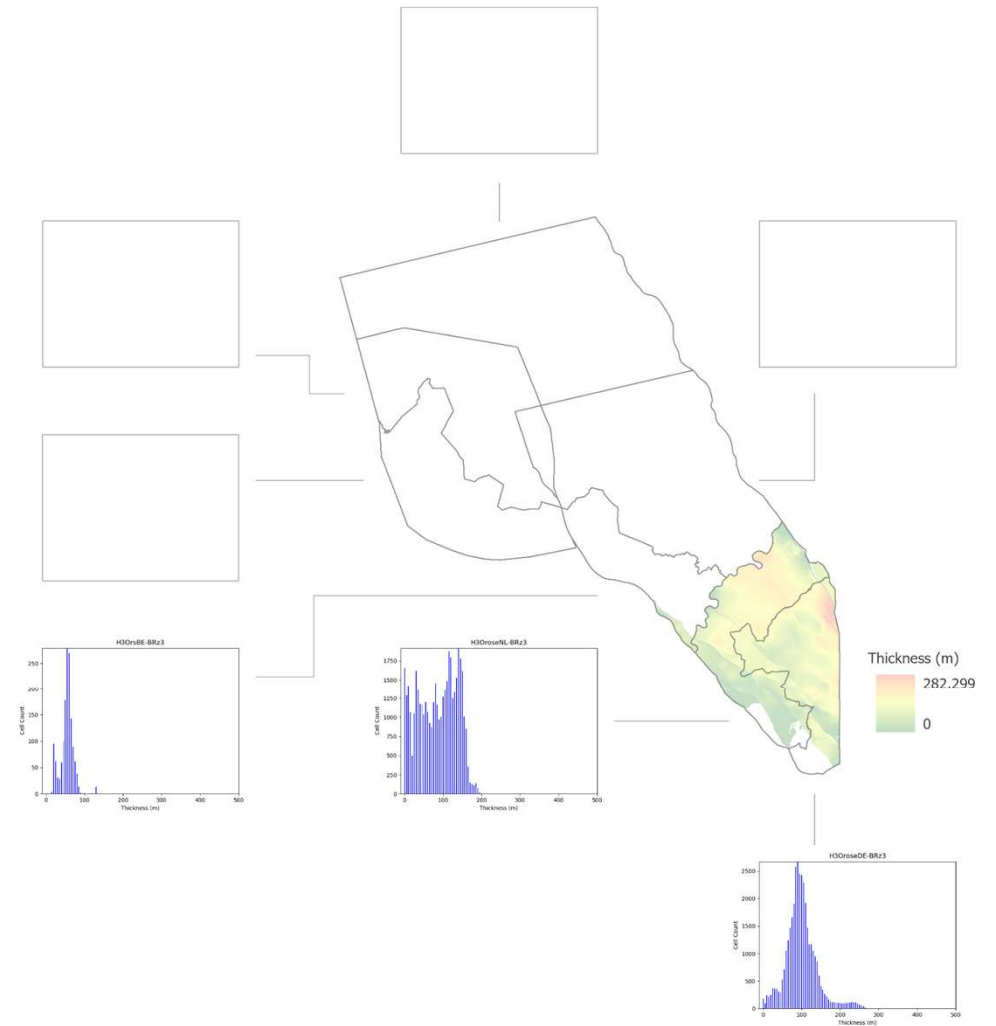
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement between NL-BE-DE data; BE expert range for RVG is rather large, even though this unit correlates with one formation only (Bolderberg), the reason for this large range remains unknown

Thickness [m] of BRz4 by model area



Unit VESOc

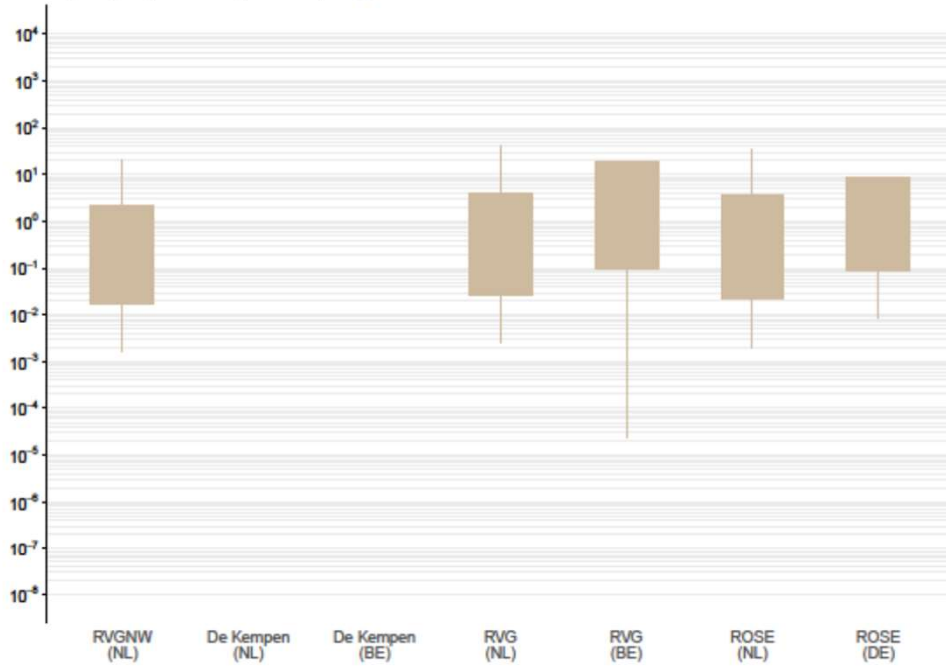
NL: undefined in REGIS II v2.2. Fm. van Veldhoven, Lp. van Someren

BE: Berchem and/or Voort Formation

DE: Grafenberg-Fm., Veldhoven-Fm.

Hydraulic conductivity [m/d] of VESOc by model area

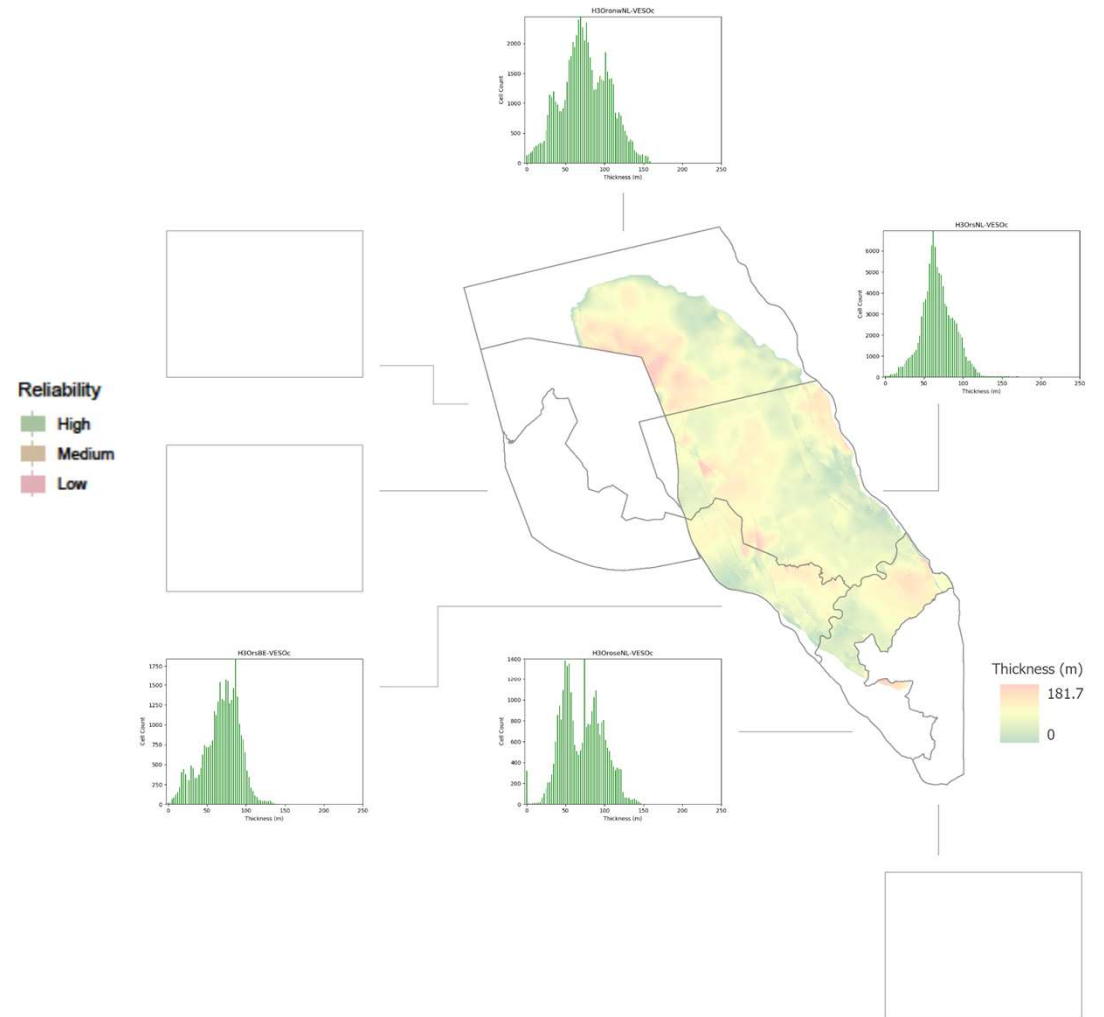
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall good agreement between NL-BE-DE data, the slightly larger BE values are probably due to the fact that this unit is at shallower depth, less compacted and contains relatively coarse material

Thickness [m] of VESOc by model area



Unit VEWik1

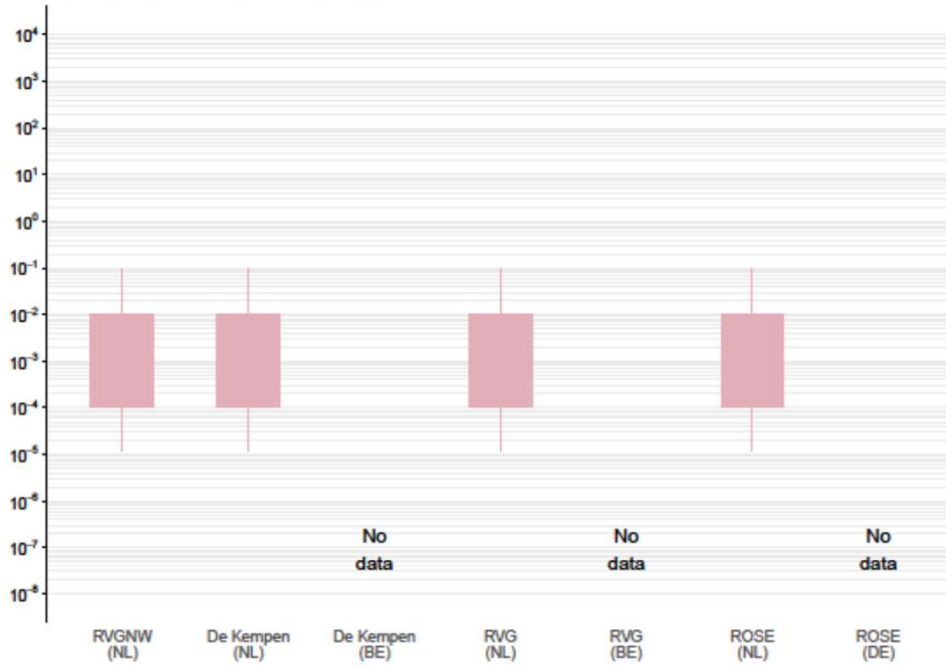
NL: undefined in REGIS II v2.2. Fm. van Veldhoven, Lp. van Wintelre

BE: Voort Formation (Veldhoven Clay)

DE: Veldhoven-Fm.

Hydraulic conductivity [m/d] of VEWik1 by model area

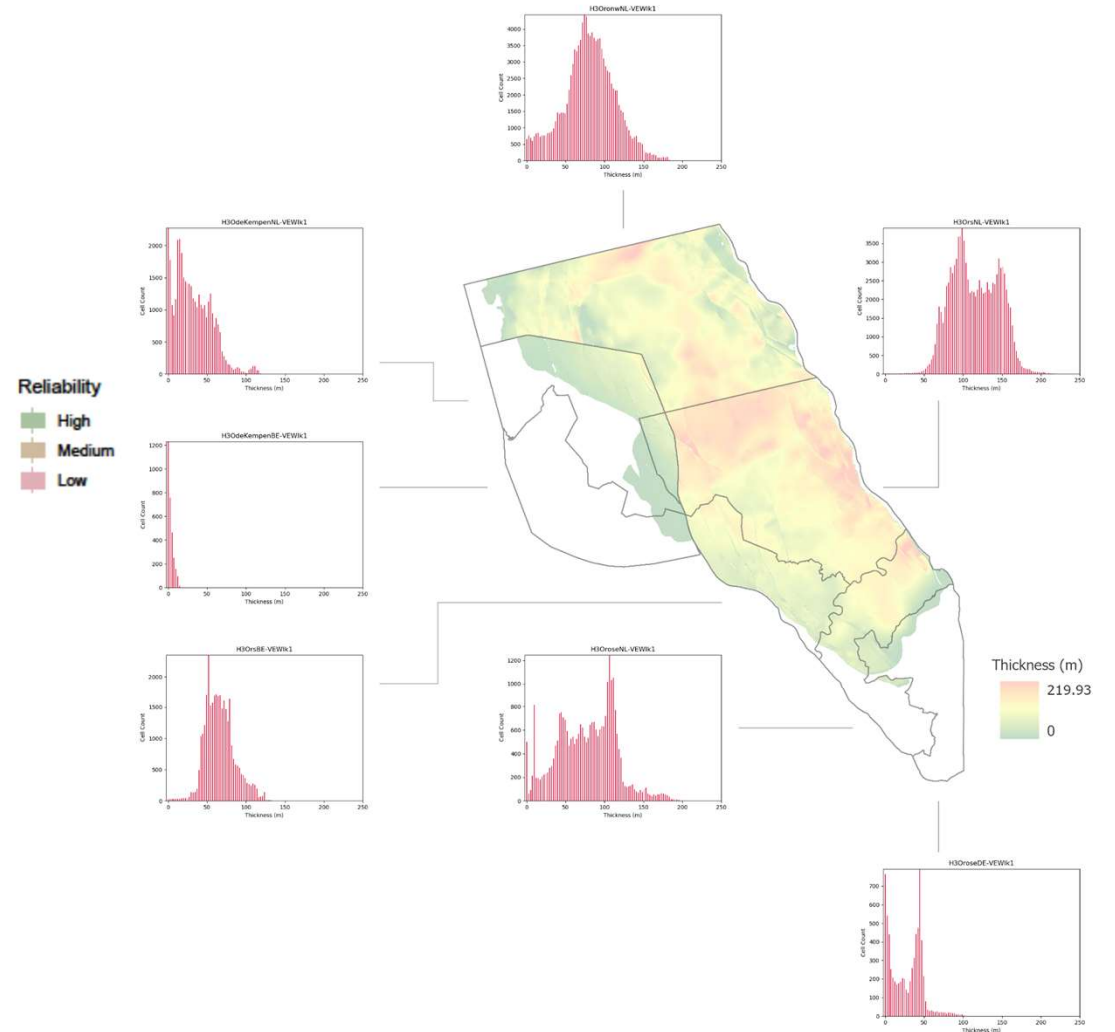
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of VEWik1 by model area



Unit VEVOc

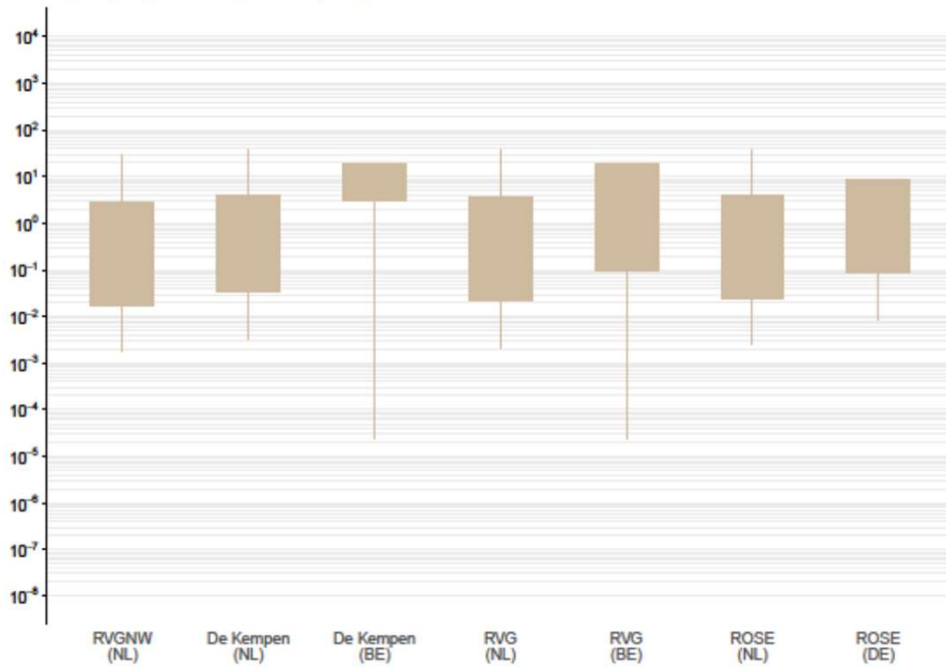
NL: Fm. van Veldhoven, Lp. van Voort, complexe eenheid

BE: Berchem and/or Voort Formation

DE: Grafenberg-Fm., Veldhoven-Fm.

Hydraulic conductivity [m/d] of VEVOc by model area

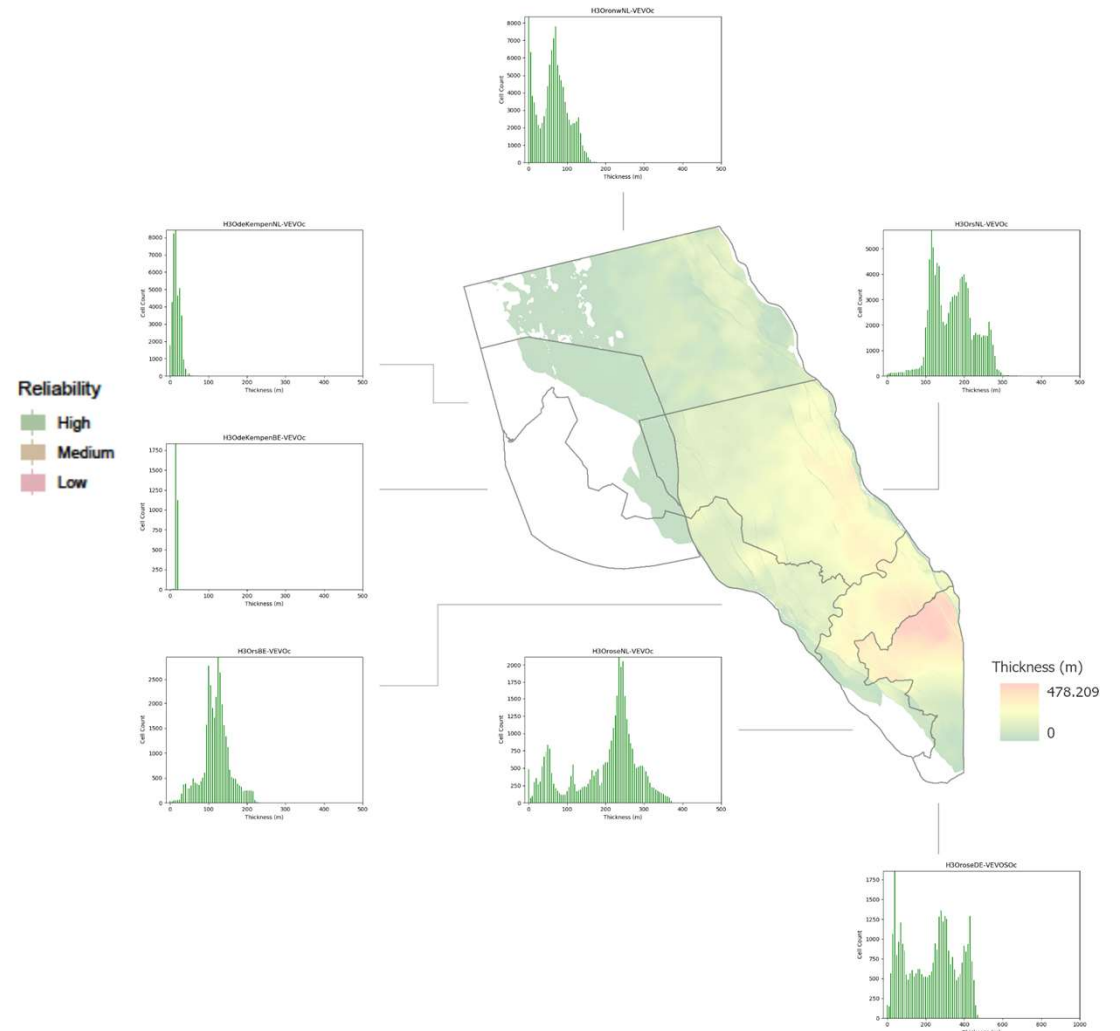
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Overall fair agreement between NL-BE-DE data, slightly larger BE values are probably due to the fact that this unit is rather sandy in this area

Thickness [m] of VEVOc by model area



Unit RUz2

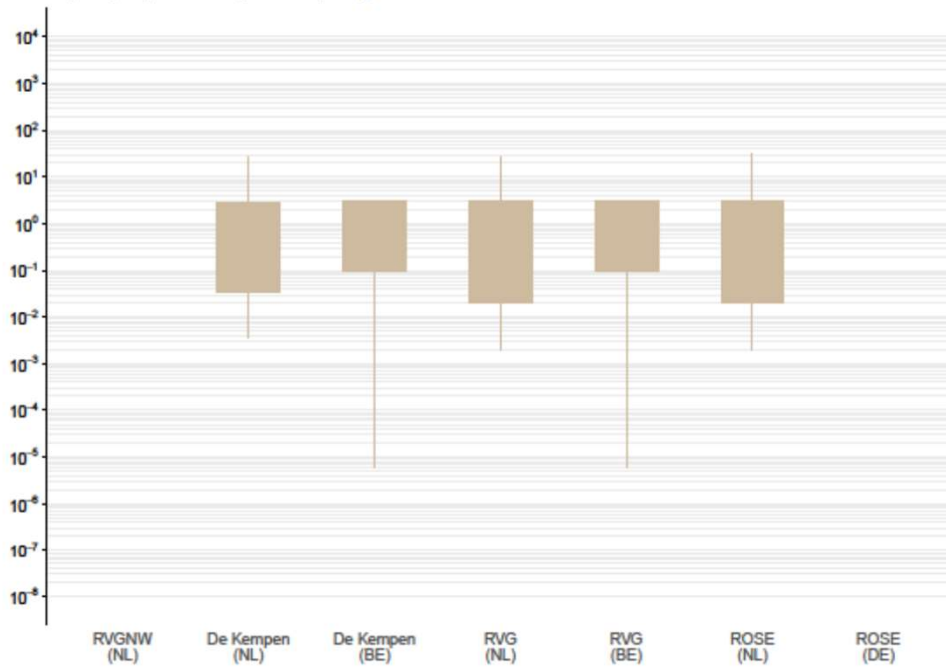
NL: Rupel Fm., 2e zandige eenheid

BE: Eigenbilzen Sands

DE: undefined in NRW

Hydraulic conductivity [m/d] of RUz2 by model area

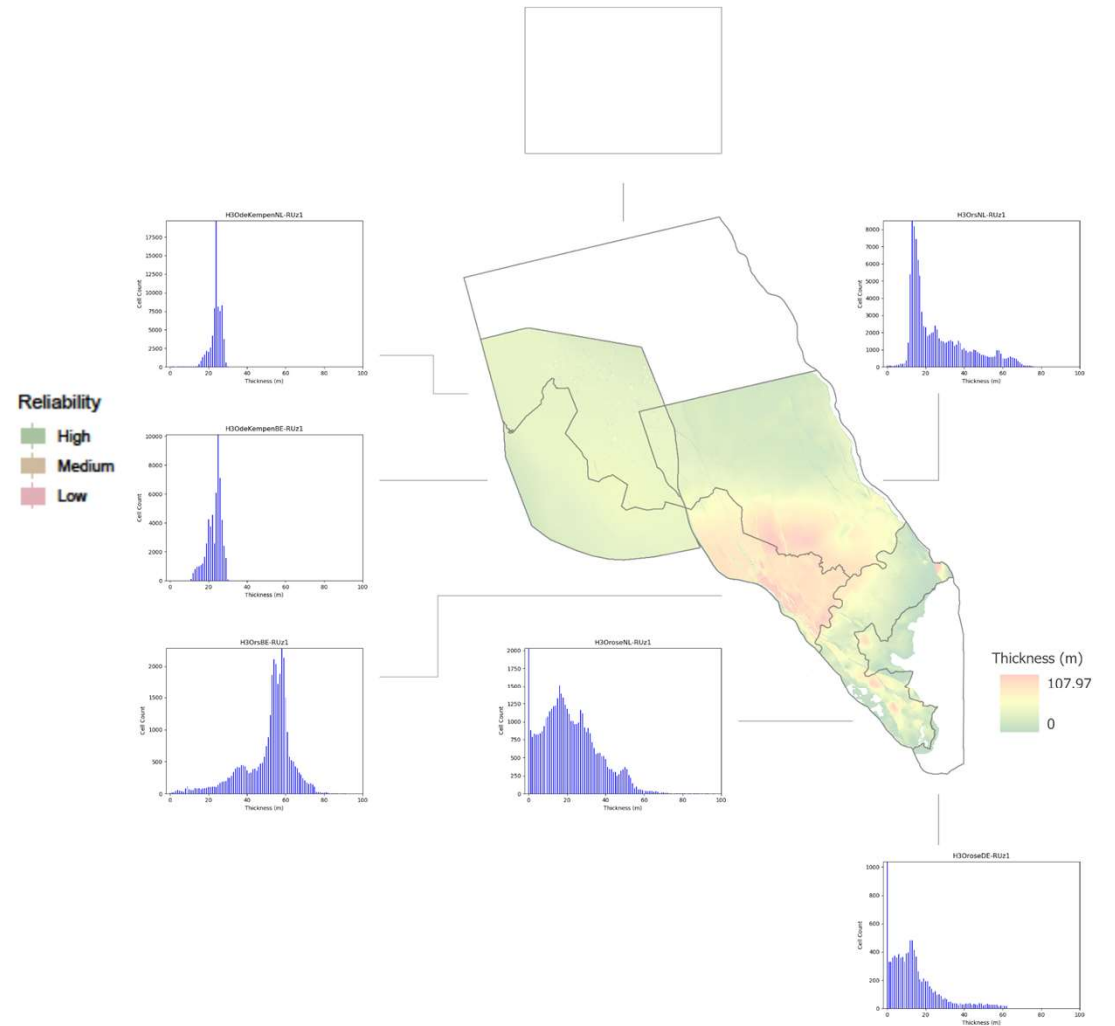
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Relatively good agreement between NL and BE data, the very low absolute minimum for BE data is based on individual small-scale permeameter tests and may not be representative for the entire unit

Thickness [m] of RUz2 by model area



Unit RUBOK1

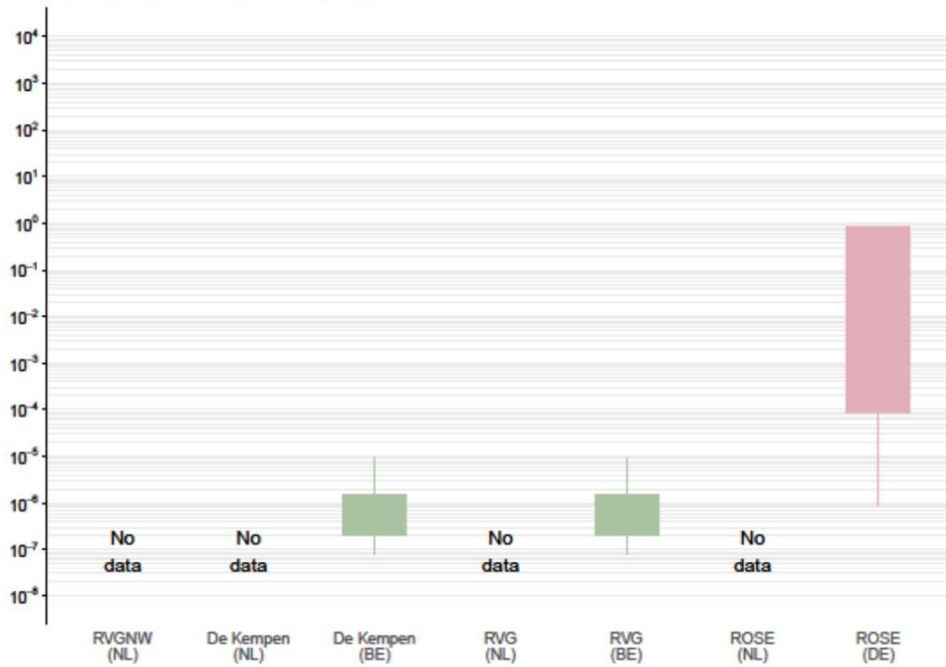
NL: Rupel Fm., (Lp. van Boom,) 1e kleine eenheid

BE: Boom Clay Aquitard

DE: Rupel-Fm., Ratingen- und Lintfort-Sub-Fm., Hor. 03 und 04A

Hydraulic conductivity [m/d] of RUBOK1 by model area

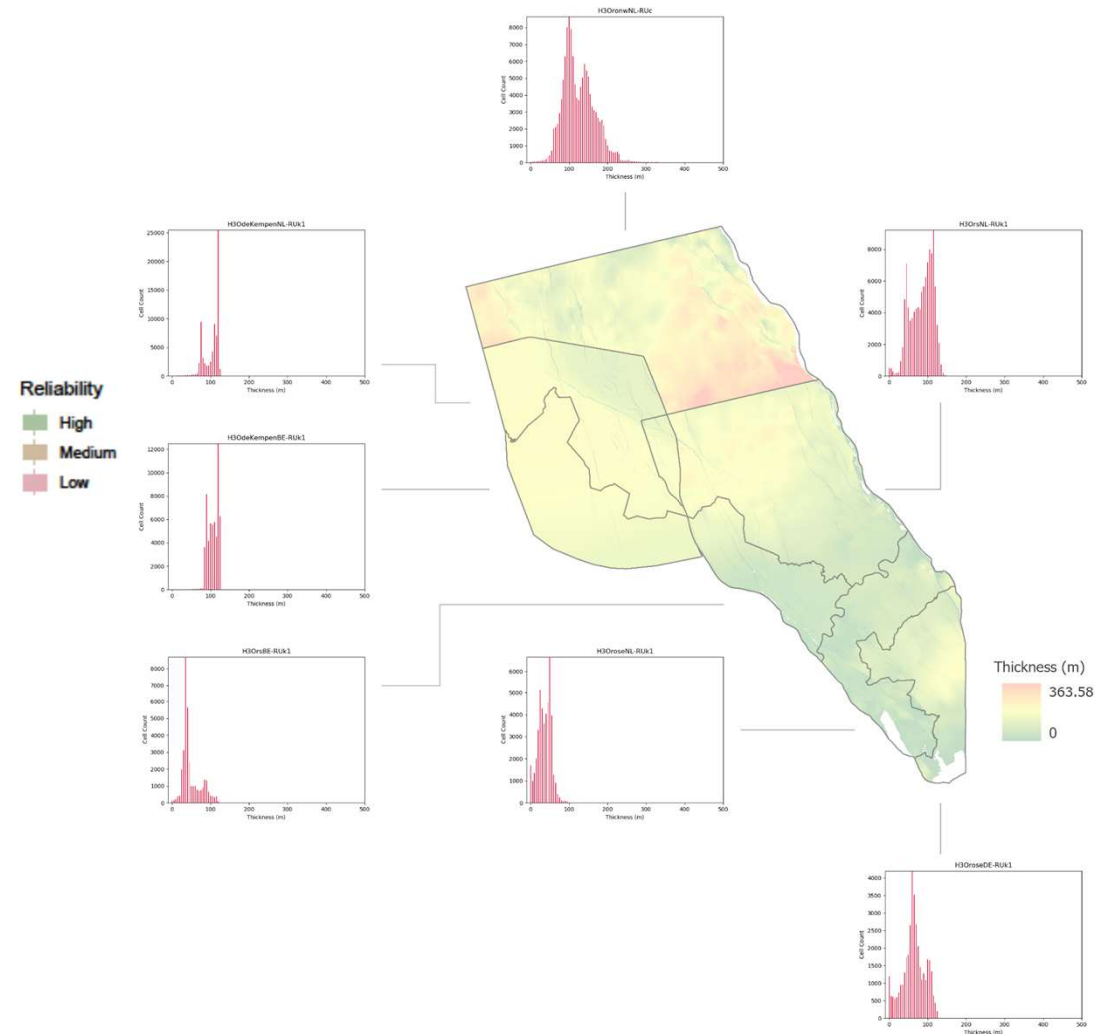
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- No data for the NL part. DE values are much higher than BE values as a result of the palaeogeographical situation and possibly also the limited depth of this unit in that area. It is recommended to study the properties of this unit in a follow-up project.

Thickness [m] of RUBOK1 by model area



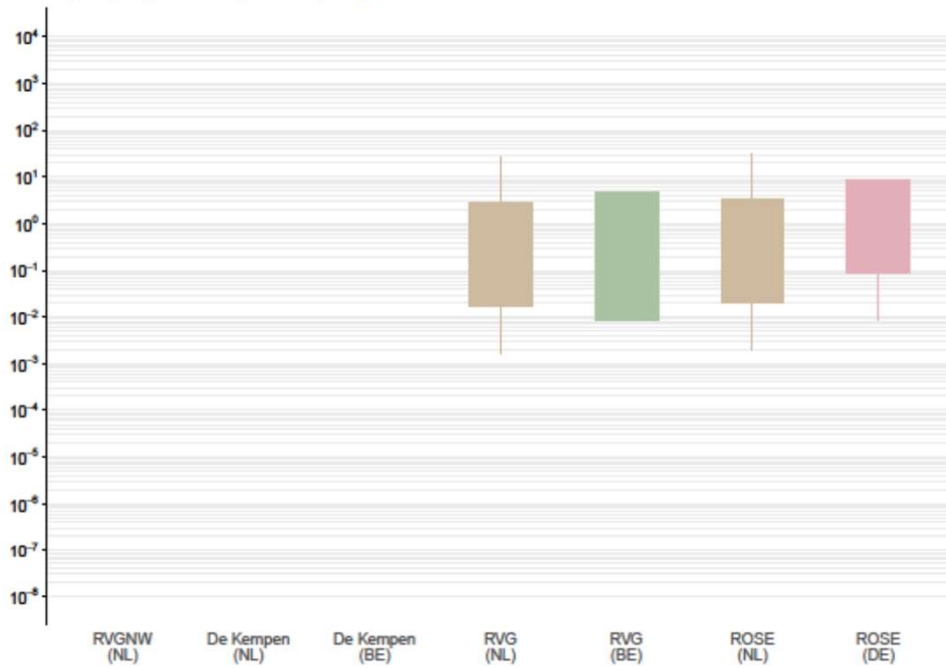
Unit RUz3

NL: Rupel Fm., 3e zandige eenheid

BE: Kerniel-Kleine Spouwen-Berg Sands

DE: Rupel-Fm., Walsum-Sub-Fm., Hor. 02

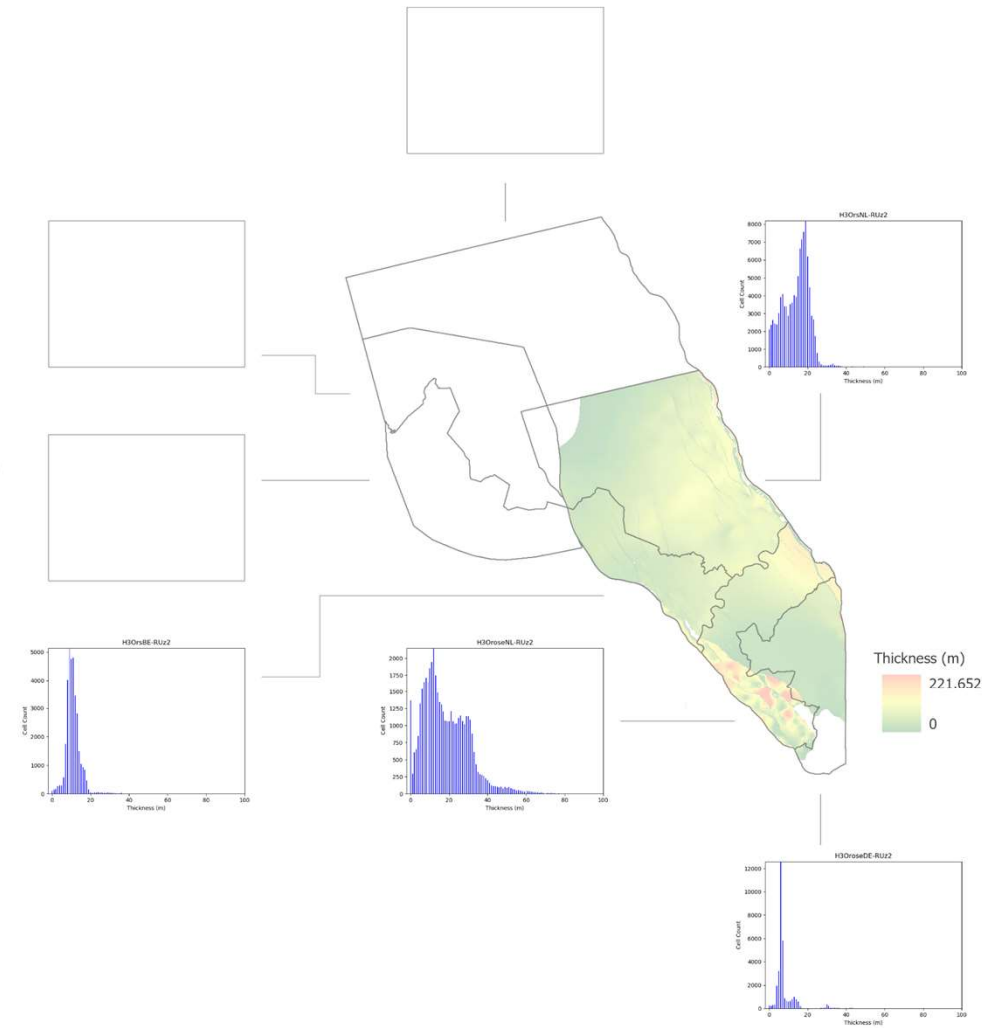
Hydraulic conductivity [m/d] of RUz3 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL-BE-DE data

Thickness [m] of RUz3 by model area



Unit TOGOk1

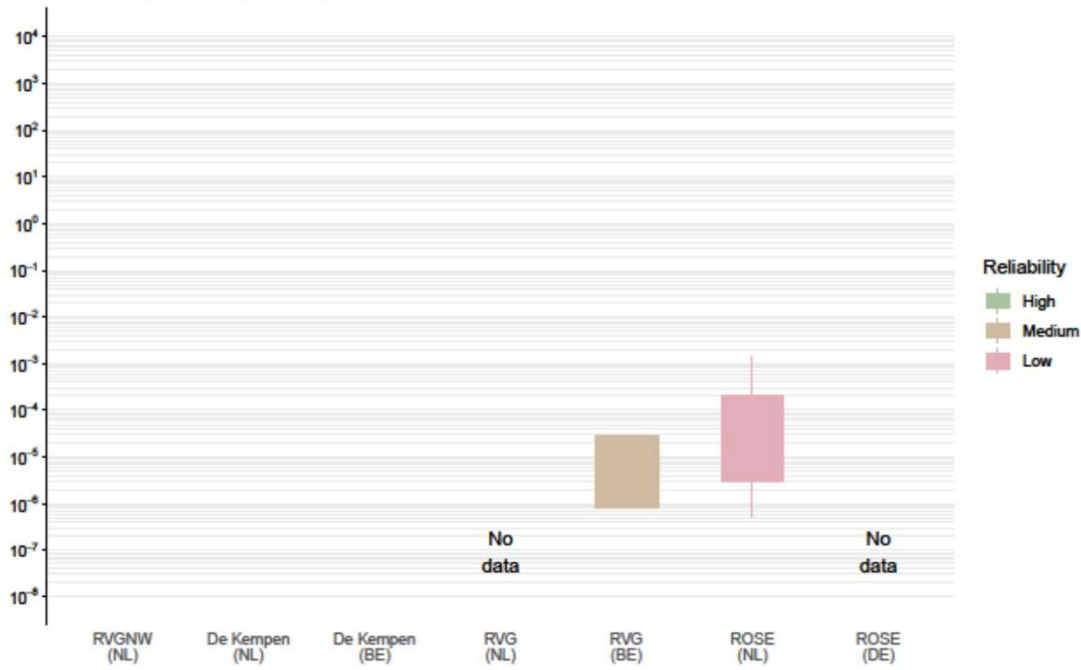
NL: Fm. van Tongeren, Lp. van Goudsberg, 1e kleiige eenheid

BE: Henis Clay

DE: Tongeren-Fm., Gereonsweiler-Sub-Fm.

Hydraulic conductivity [m/d] of TOGOk1 by model area

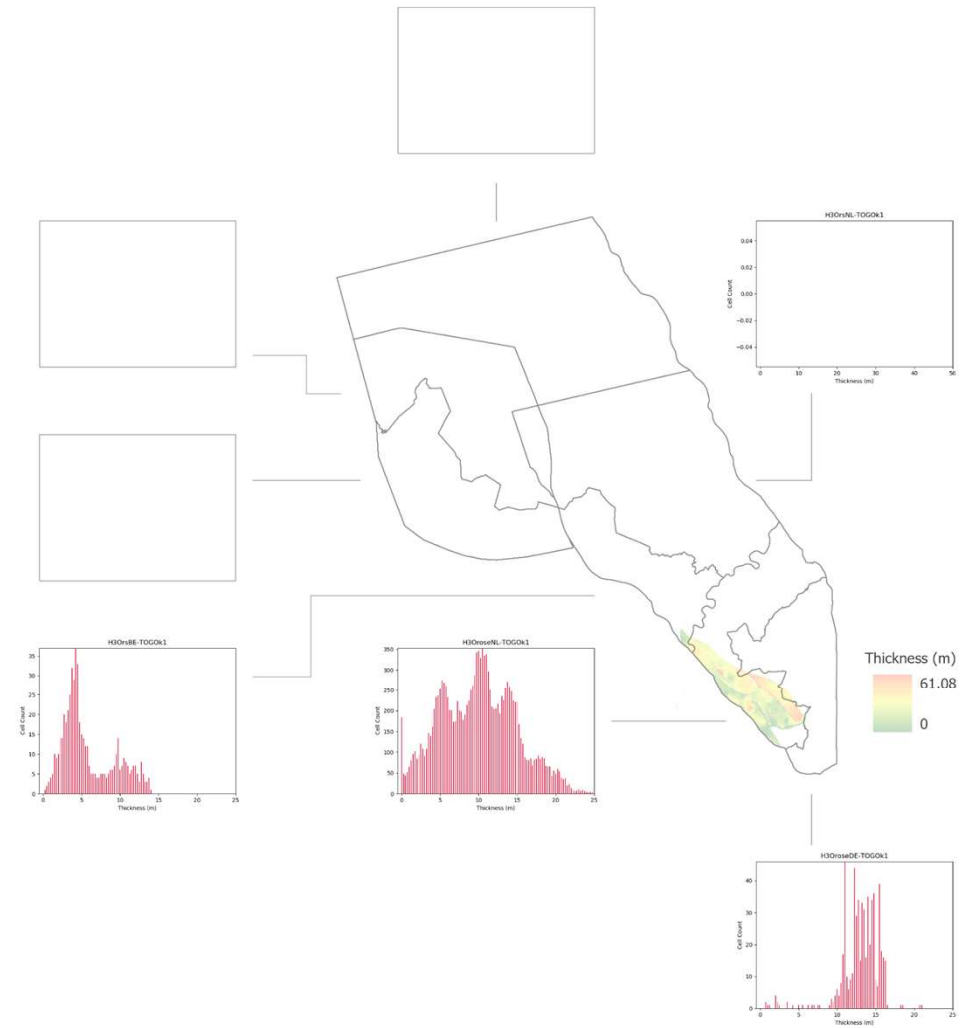
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Very good agreement between NL-BE-DE data

Thickness [m] of TOGOk1 by model area



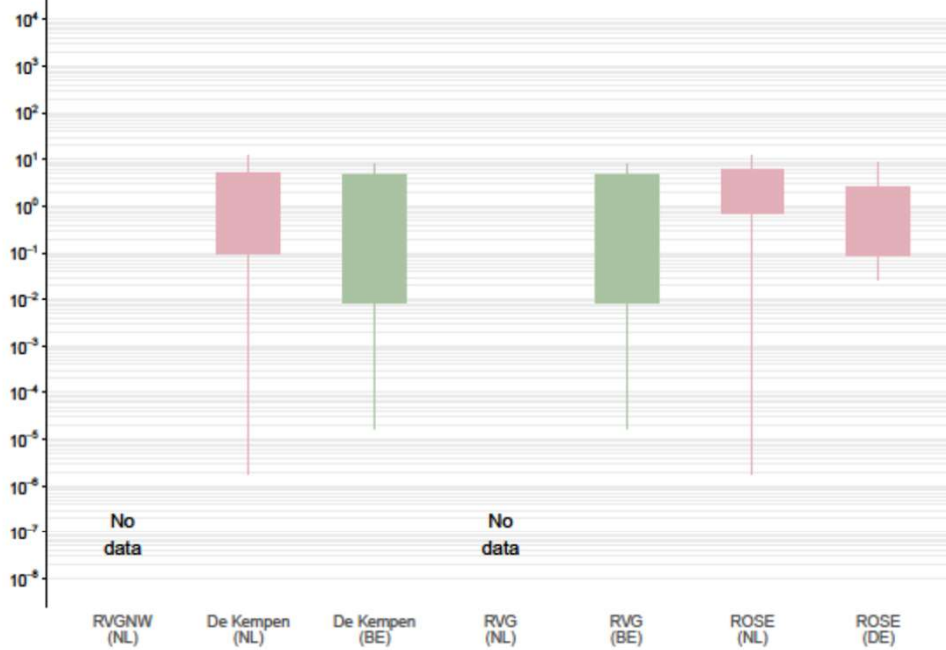
Unit TOz2

NL: Fm. van Tongeren, 2e zandige eenheid

BE: Ruisbroek-Berg Sands and Lower Oligocene Aquifer(De Kempen), Neerrepn and Grimmertingen Sands(RVG)

DE: Tongeren-Fm., Gereonsweiler-Sub-Fm.

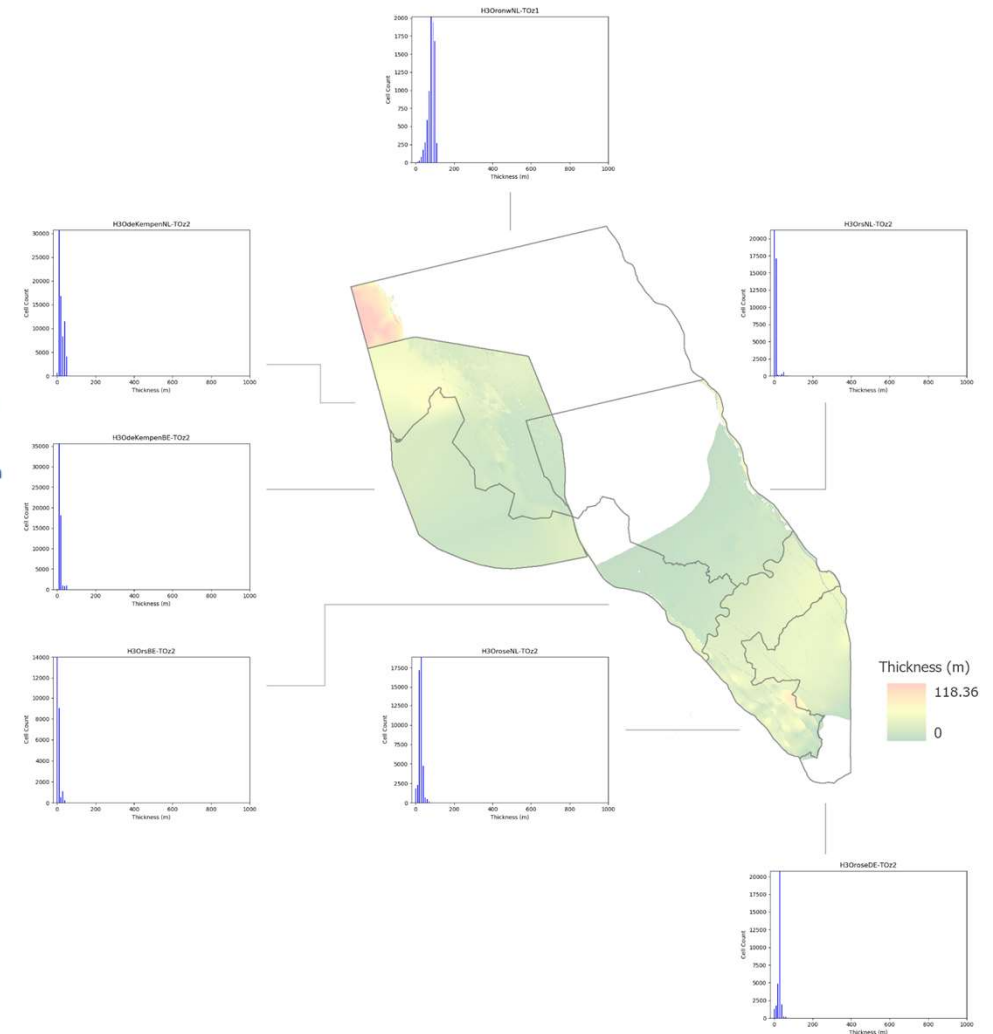
Hydraulic conductivity [m/d] of TOz2 by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Relatively good agreement between NL-BE-DE data, the low absolute minima for BE data is based on small-scale permeameter tests. The low absolute minimum for NL is based on the presence of clay layers present in this sandy unit.

Thickness [m] of TOz2 by model area



Unit MAC

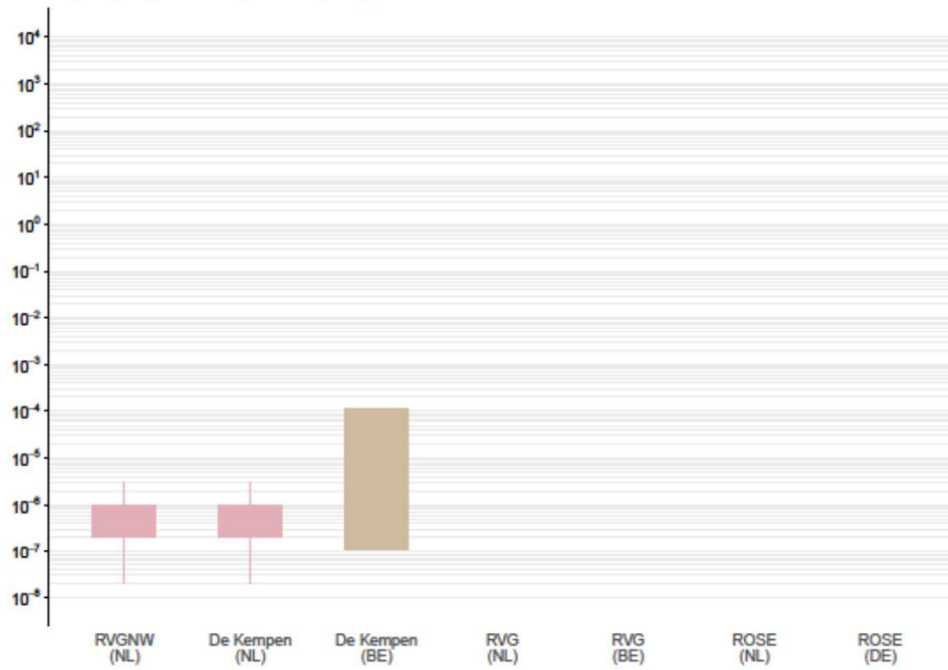
NL: Fm. van Dongen, Laagpakket van Asse, 1e kleiige eenheid

BE: Bartoon Aquitard System and Wemmel Sands

DE:

Hydraulic conductivity [m/d] of MAC by model area

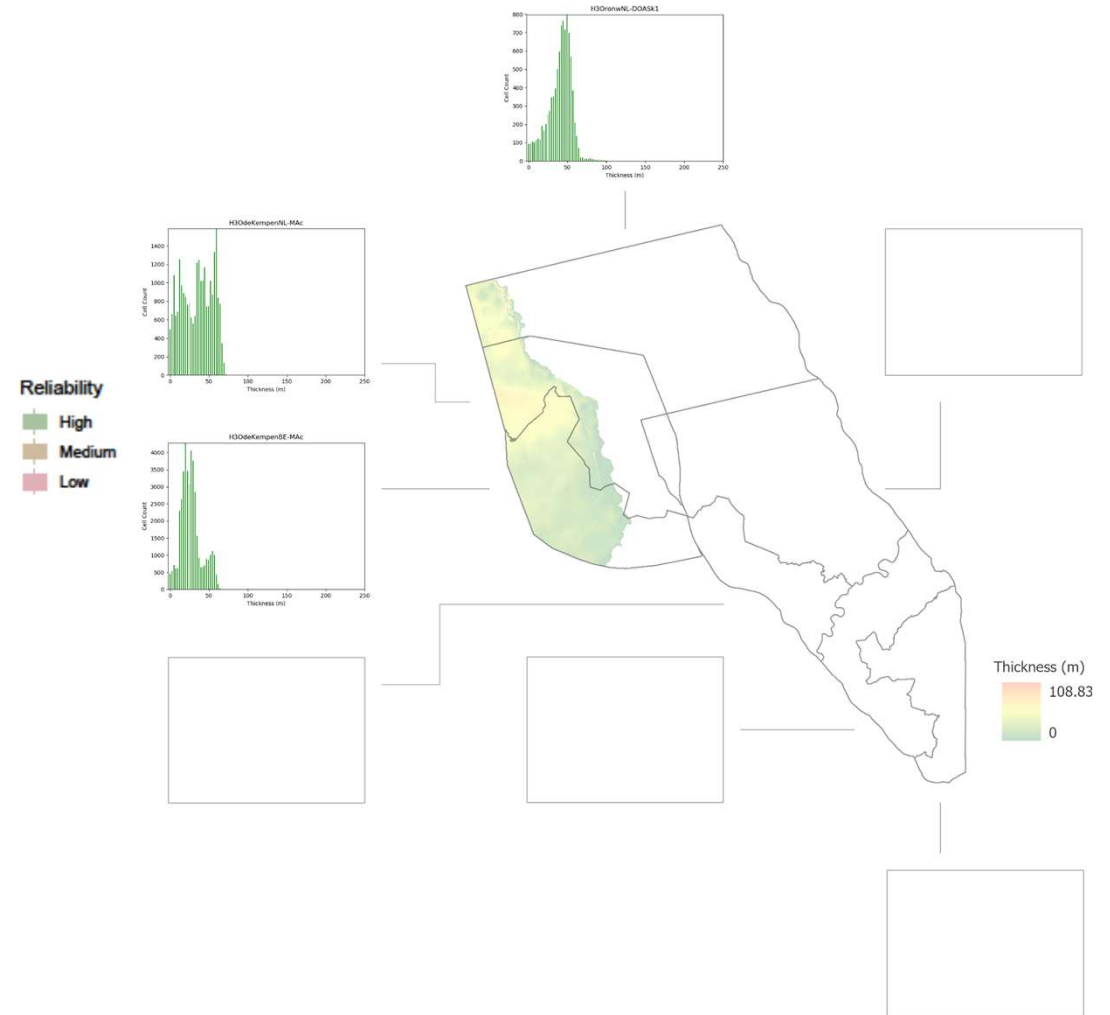
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- NL ranges fall within BE data range, the larger BE ranges remain unexplained

Thickness [m] of MAC by model area



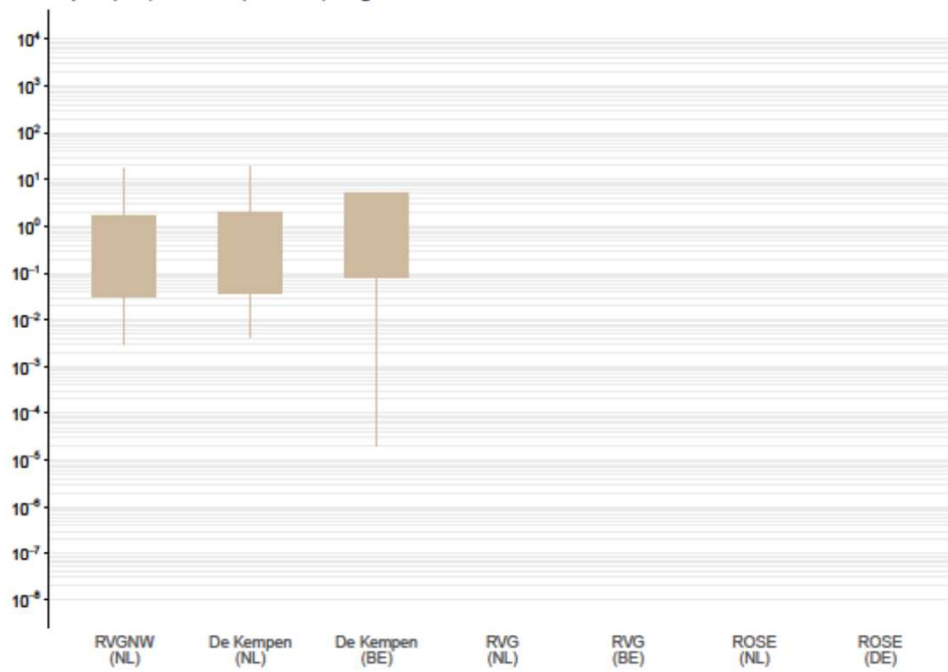
Unit EZc

NL: Fm. van Dongen, 3e zandige eenheid

BE: Brussel and Lede Sands

DE:

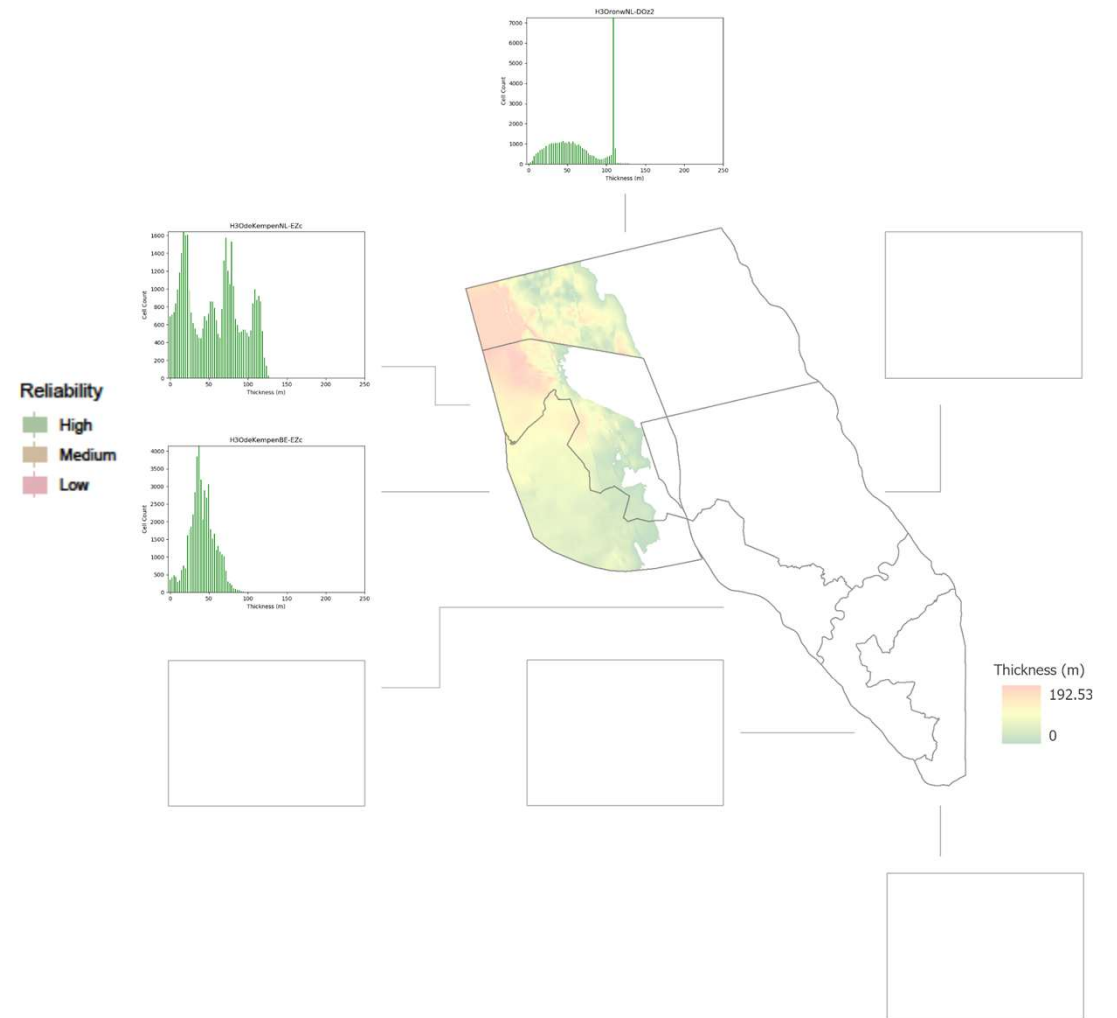
Hydraulic conductivity [m/d] of EZc by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Good agreement between NL and BE data

Thickness [m] of EZc by model area



Unit GBc

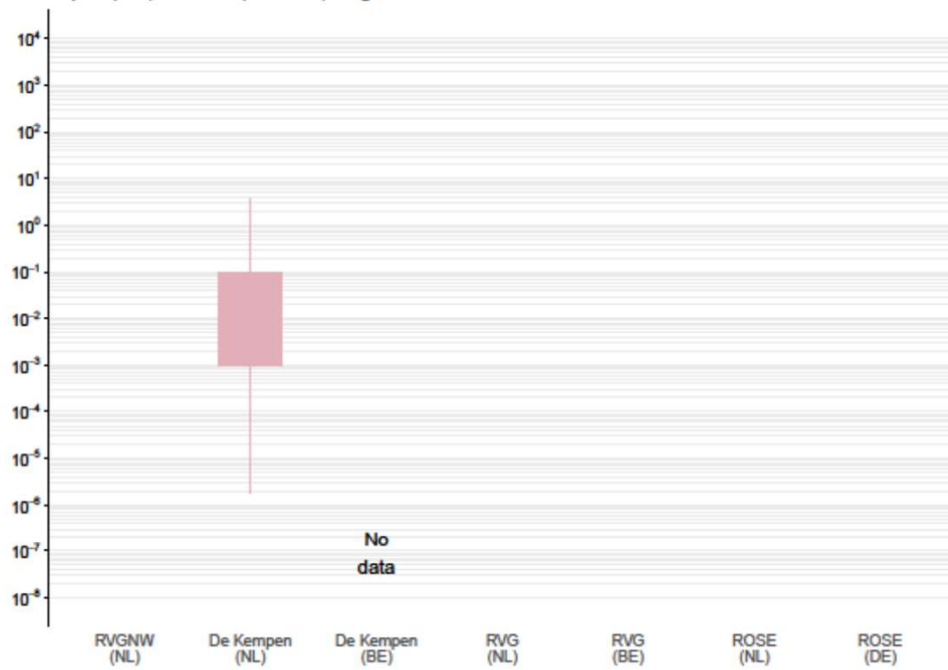
NL:

BE: Pittem and Merelbeke Clay

DE:

Hydraulic conductivity [m/d] of GBc by model area

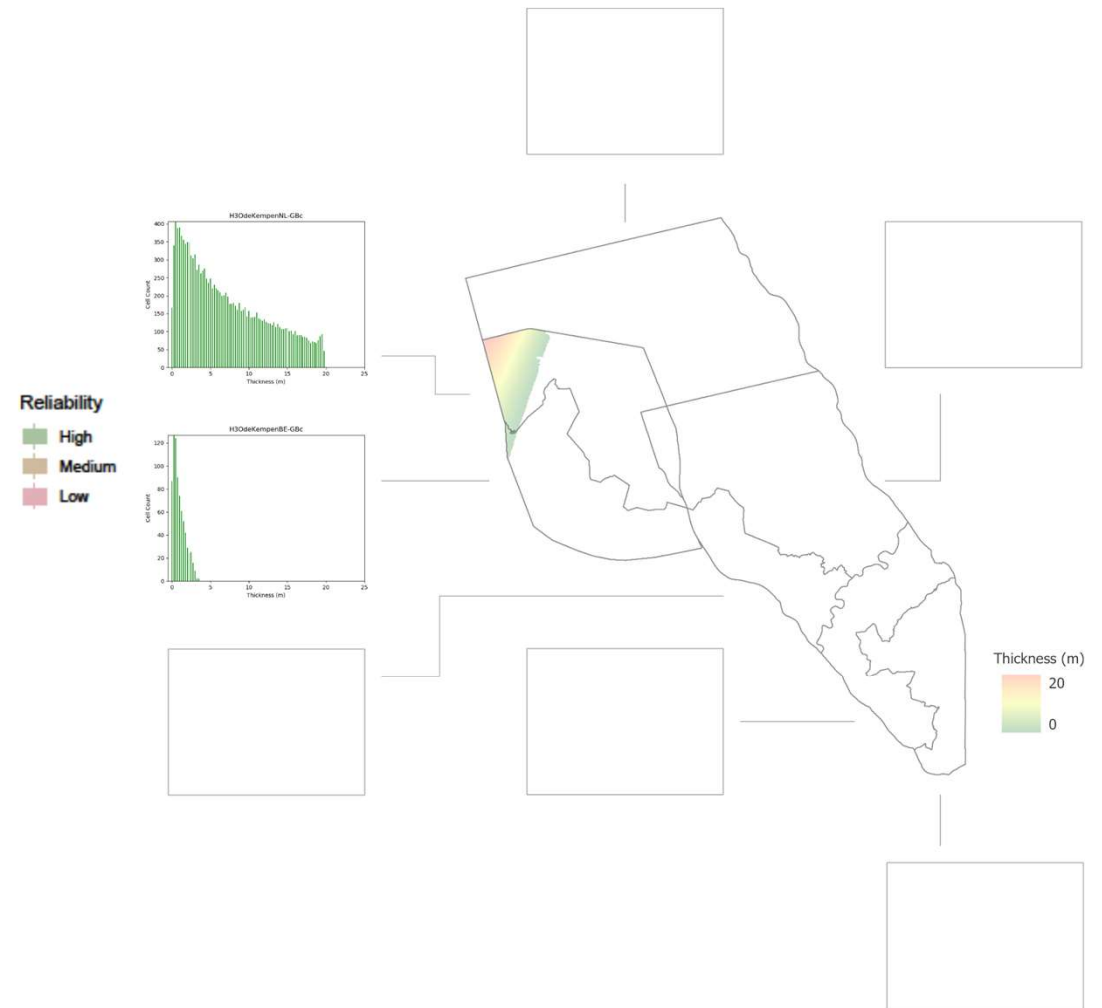
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data

Thickness [m] of GBc by model area



Unit TTc

NL: Fm. van Dongen, Laagpakket van Ieper, 1e kleiige eenheid

BE: Ypresian Aquifer and Kortemark Silt

DE:

Hydraulic conductivity [m/d] of TTc by model area

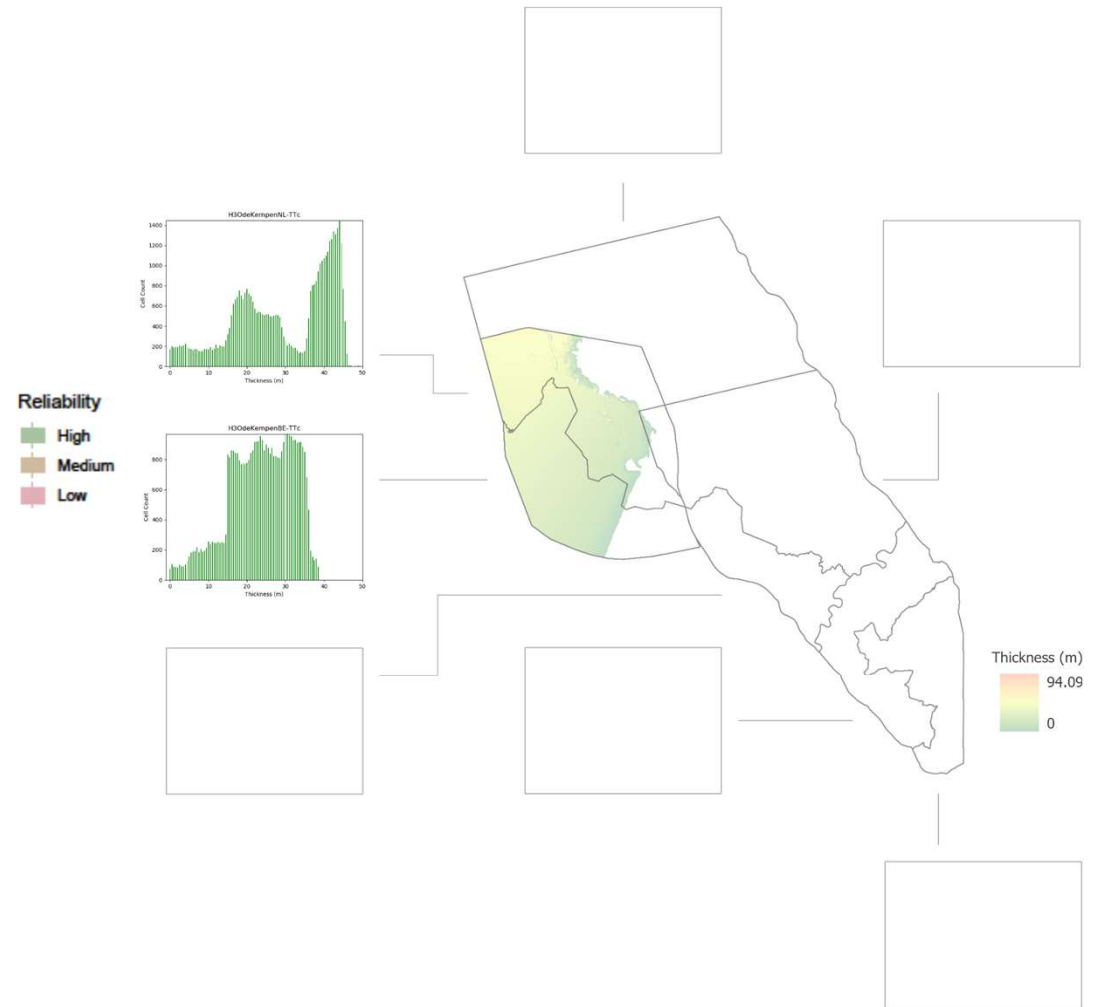
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Values and ranges are lower/smaller for NL data, maybe due to palaeogeographical situation

Thickness [m] of TTc by model area



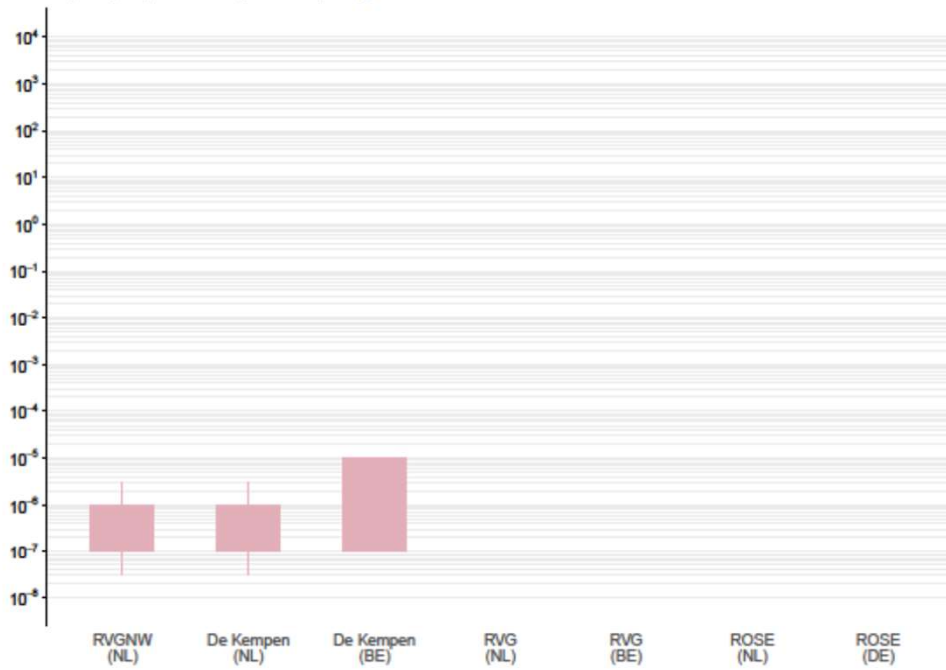
Unit KOc

NL: Fm. van Dongen, Laagpakket van Ieper, 1e kleiige eenheid

BE: Ypresian Aquitard System (Kortrijk Formation)

DE:

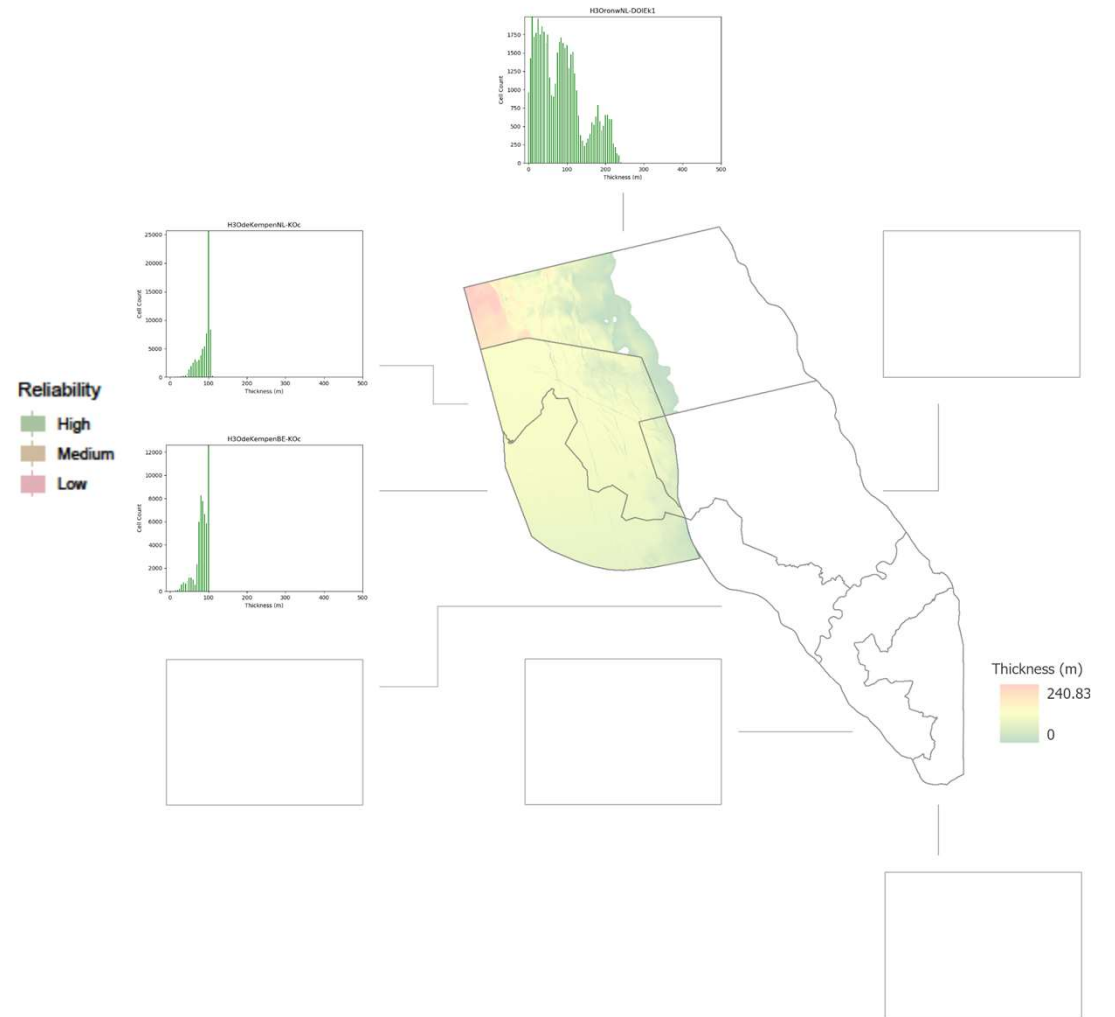
Hydraulic conductivity [m/d] of KOc by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Good agreement between NL and BE data

Thickness [m] of KOc by model area



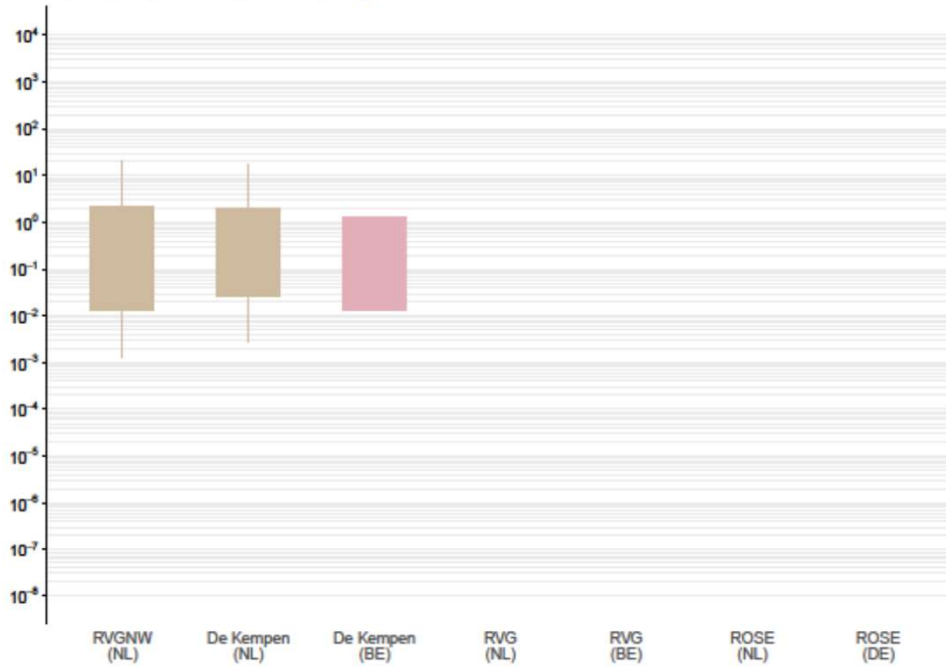
Unit TNc

NL: Fm. van Dongen, 4e zandige eenheid

BE: Loksbergen-Dormaal Sands

DE:

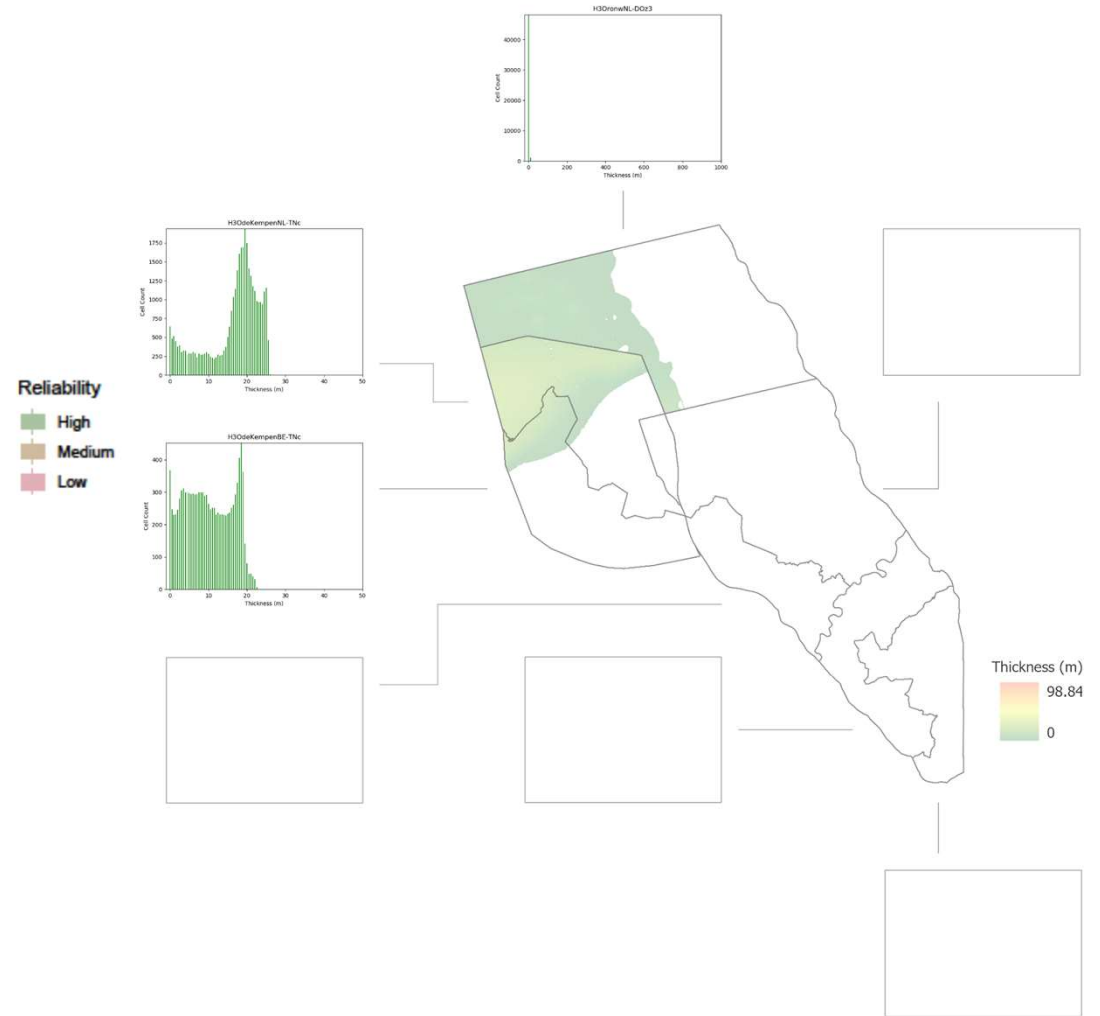
Hydraulic conductivity [m/d] of TNc by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Fair agreement between NL and BE data

Thickness [m] of TNc by model area



Unit HAC

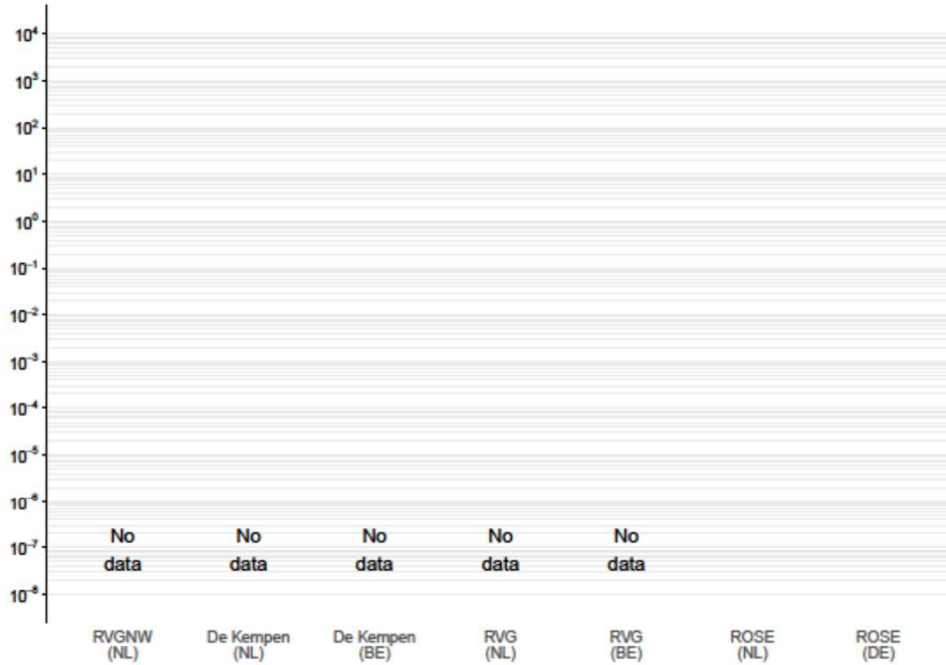
NL: undefined in REGIS II v2.2. Fm. van Landen, Lp. van Reussel, Lp. van Liessel en Lp. van Gelinden

BE: Grandglise Sand, Lincent and Halen-Waterschei Silt-Clay(De Kempen, Halen Silt and Waterschei Clay(RVG)

DE:

Hydraulic conductivity [m/d] of HAC by model area

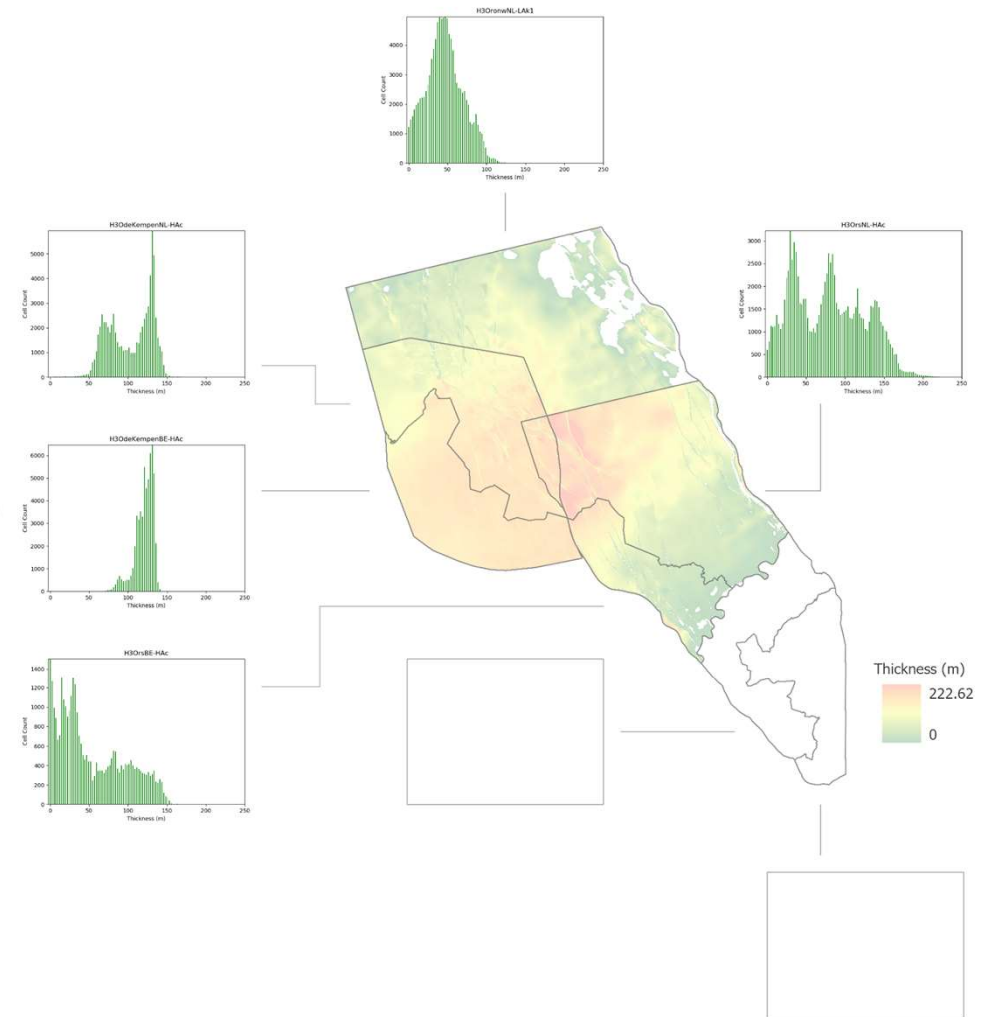
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- No data

Thickness [m] of HAC by model area



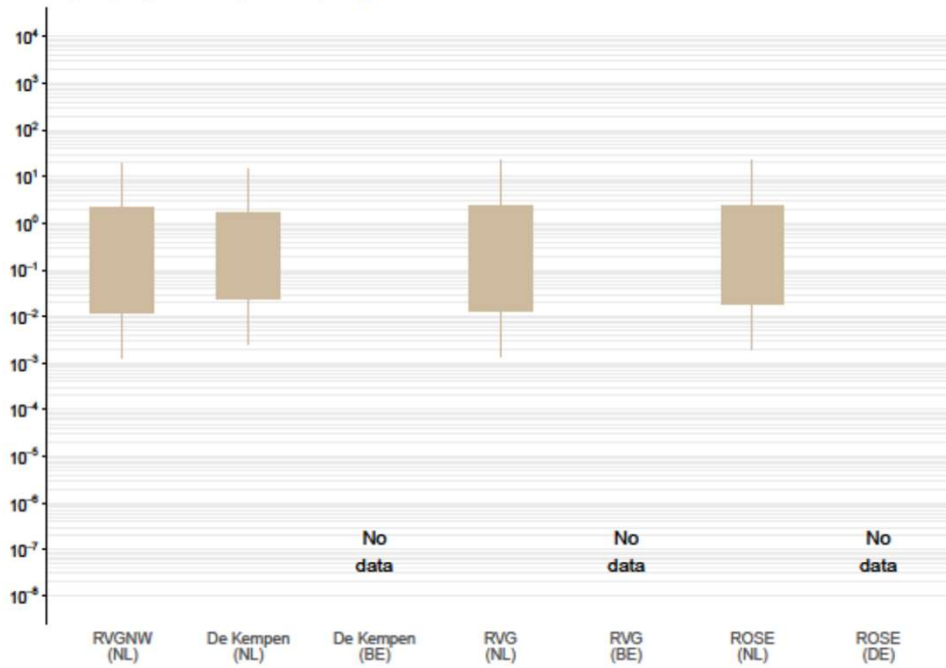
Unit HSc

NL: undefined in REGIS II v2.2. Fm. van Landen, Lp. van Orp

BE: Gelinden Marls and Orp Sand

DE: Landen-Fm., Heers-Sub-Fm.

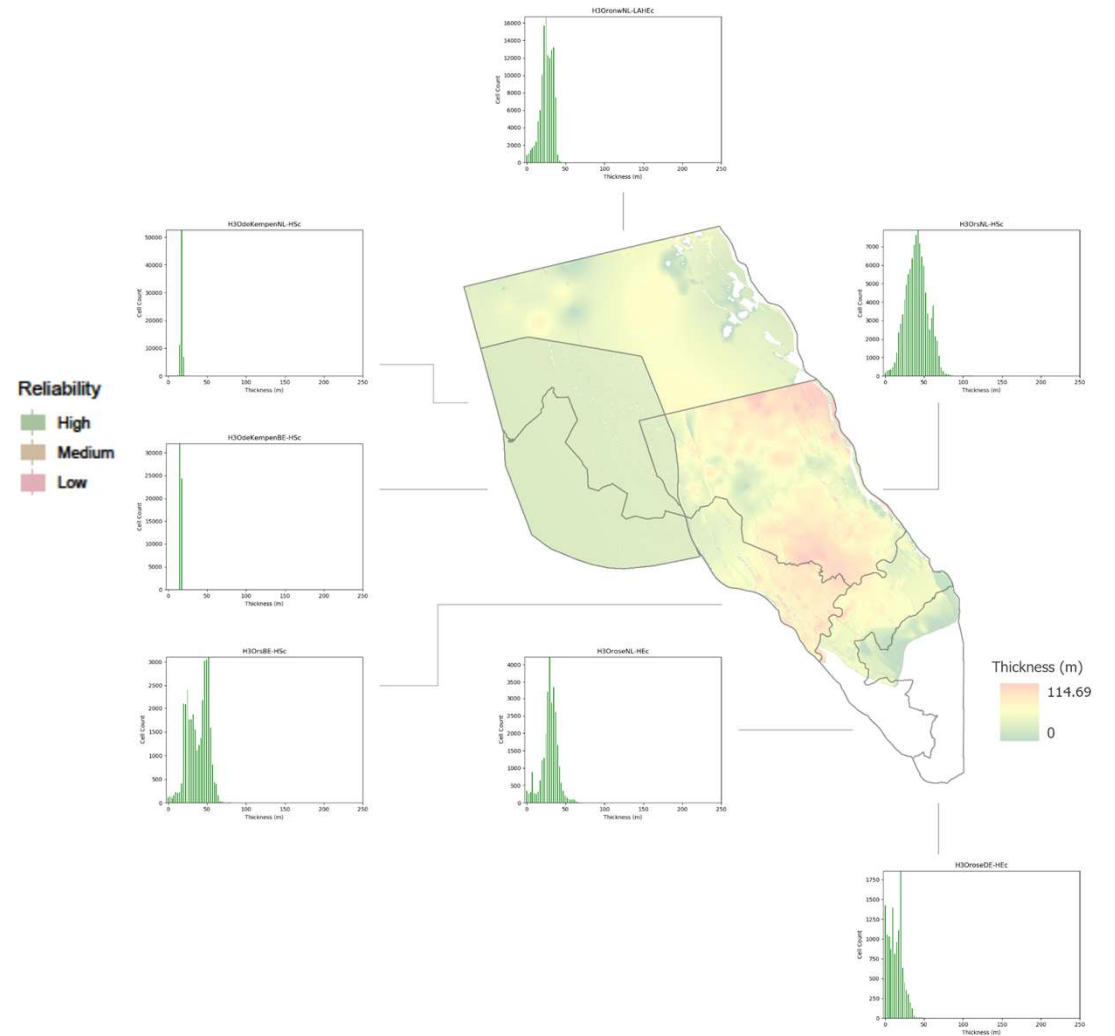
Hydraulic conductivity [m/d] of HSc by model area
Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data, based on outcrop analogues

Thickness [m] of HSc by model area



Unit OPc

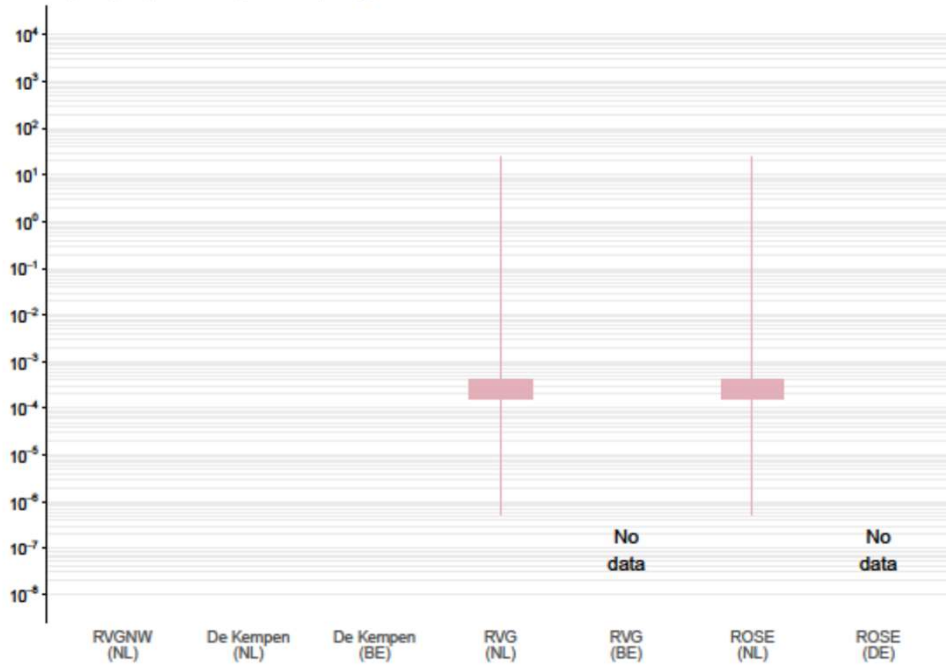
NL: Fm. van Landen (Lp. van Swalmen), complexe eenheid

BE: Eisden Sand and Opoeteren Clay

DE: Landen-Fm., Gelinden-Sub-Fm.

Hydraulic conductivity [m/d] of OPc by model area

Expert (box) and data (whiskers) ranges



Notes on observed trends and differences:

- Only NL data, predominantly based on borehole information outside the project area

Thickness [m] of OPc by model area

