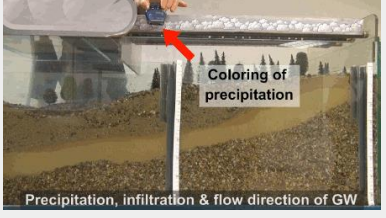
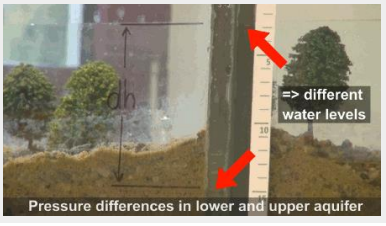
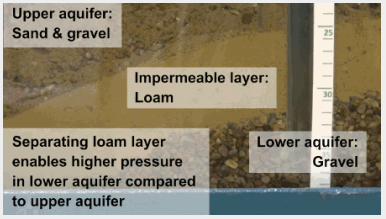
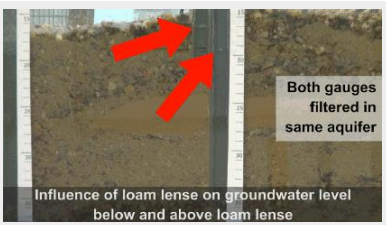

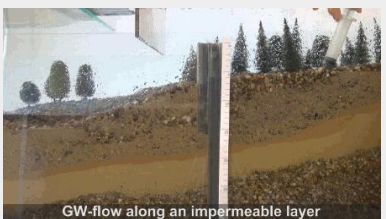


# Water in the landscape – a sandbox model

## Part II – Visualization of hydrological processes

The water cycle	<a href="#">0:19</a>	
1. Precipitation, infiltration & flow direction of groundwater	<a href="#">0:50</a>	 <p>Coloring of precipitation</p> <p>Precipitation, infiltration &amp; flow direction of GW</p>
2. Pressure conditions in the groundwater	<a href="#">1:52</a>	
2.1 Different pressure heads in lower and upper aquifer	<a href="#">1:57</a>	 <p>=&gt; different water levels</p> <p>Pressure differences in lower and upper aquifer</p>
2.2 Artesian Well	<a href="#">3:26</a>	 <p>Upper aquifer: Sand &amp; gravel</p> <p>Impermeable layer: Loam</p> <p>Lower aquifer: Gravel</p> <p>Separating loam layer enables higher pressure in lower aquifer compared to upper aquifer</p>
2.3 Local aquitard – A loam lense	<a href="#">4:50</a>	 <p>Both gauges filtered in same aquifer</p> <p>Influence of loam lense on groundwater level below and above loam lense</p>
2.4 Overview of water levels	<a href="#">6:19</a>	 <p>Confined GW in lower aquifer</p> <p>Overview of water levels</p>
3. Visualization of flow directions with tracer (ink)	<a href="#">7:17</a>	
3.1 Movement of water in the subsurface	<a href="#">7:23</a>	 <p>GW-flow along an impermeable layer</p>

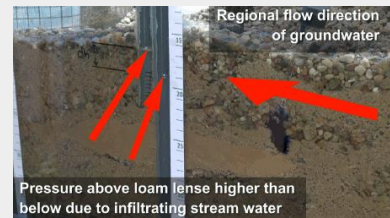
3.2 Interaction of stream and groundwater

[9:31](#)



3.3 Local inversion of regional groundwater flow direction

[10:27](#)



4. Simulation of sea level rise

[11:39](#)

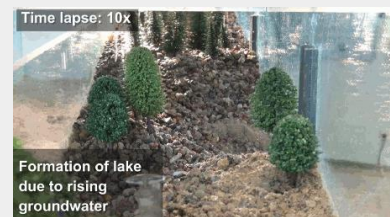


5. Water flow through lake as part of water cycle

[12:45](#)

5.1 Dependency of lake water level from groundwater level

[12:51](#)



5.2 Suspended loam particles unveil flow through the lake

[13:32](#)

