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Effects of capillary fringe and truncation factor on pore-water pressure and water table variation in dewatering and watering sand column experiments

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Highlights

- A series of dewatering and watering sand column experiments were conducted to investigate the shallow groundwater dynamics regarding the influence of capillary fringe and truncation factors.
- Spatiotemporal variations of the pore-water pressure response to a minute amount of water exchange were studied in detail.
- Temporal variation of the water table in the dewatering and watering experiments was quantitatively presented.
- Influence of truncation factors on the pressure head increment and water table variation was revealed for the watering experiment.

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