



Corrigendum to “The three-dimensional groundwater salinity distribution and fresh groundwater volumes in the Mekong Delta, Vietnam, inferred from geostatistical analyses” published in Earth Syst. Sci. Data, 13, 3297–3319, 2021

Jan L. Gunnink¹, Hung Van Pham^{2,3}, Gualbert H. P. Oude Essink^{3,4}, and Marc F. P. Bierkens^{3,4}

¹TNO Geological Survey of the Netherlands, Utrecht, the Netherlands

²Division of Water Resources Planning and Investigation for the South of Vietnam (DWRPIS),
Ho Chi Minh City, Vietnam

³Department of Physical Geography, Utrecht University, Utrecht, the Netherlands

⁴Department of Subsurface and Groundwater Systems, Deltares, Utrecht, the Netherlands

Correspondence: Jan L. Gunnink (jan.gunnink@tno.nl)

Published: 17 August 2021

Two columns of information in Tables 1 and 2 were accidentally omitted from the tables upon submission of the paper. Below is an explanation of what was missing as well as the corrected tables.

In Table 1, the intrinsic formation factor, F_i , as checked by comparison with TDS-Ec(groundwater) data from Buschman et al. (2008) and An et al. (2014), is not shown, although the table caption mentions that it should be there. It is now included (between brackets) in the column “Intrinsic formation factor F_i [–]” in the corrected table below.

In Table 2, the column for the indicator 3 g L^{-1} TDS is missing, which is corrected in the updated table below.

Table 1. Intrinsic formation factor and drainable porosity for lithology classes. The intrinsic formation factor (F_i) from literature (de Louw et al., 2011; Faneca Sánchez et al., 2012) and in brackets F_i as checked by comparison with TDS-Ec(groundwater) data from Buschman et al. (2008) and An et al. (2014). Drainable porosity based on Johnson (1967).

Lithology	Intrinsic formation factor F_i [–]	Drainable porosity [–]
Gravel	7 (–)	0.23
Coarse sand	5–6 (5.0)	0.27
Medium sand	4–4.5 (4.3)	0.26
Fine sand	3–3.5 (3.0)	0.21
Silt	2–2.8 (2.0)	0.08
Clay/peat	1–1.5 (–)	0.02

Table 2. Cumulative probabilities at indicator thresholds for each aquifer.

Aquifer	Indicator (g L^{-1} TDS)											
	0.25	0.5	0.75	1	2	3	5	7.5	10	15	20	30
qh	0.03	0.06	0.08	0.1	0.22	0.36	0.56	0.72	0.82	0.93	0.96	1
qp3	0.18	0.23	0.31	0.36	0.52	0.61	0.76	0.84	0.9	0.95	0.98	1
qp2-3	0.18	0.29	0.38	0.45	0.58	0.68	0.81	0.89	0.93	0.98	0.99	1
qp1	0.17	0.26	0.35	0.41	0.55	0.64	0.75	0.84	0.9	0.96	0.98	1
n22	0.22	0.34	0.44	0.51	0.69	0.78	0.86	0.91	0.94	0.98	0.99	1
n21	0.18	0.32	0.4	0.49	0.71	0.81	0.90	0.95	0.97	0.98	0.99	1

References

- An, T. D., Tsujimura, M., Le Phu, V., Kawachi, A., and Ha, D. T.: Chemical characteristics of surface water and groundwater in Coastal Watershed, Mekong Delta, Vietnam, *Proc. Environ. Sci.*, 20, 712–721, 2014.
- Buschmann, J., Berg, M., Stengel, C., Winkel, L., Sampson, M. L., Pham Thi Kim Trang, P. T. K., and Viet, P. H.: Contamination of drinking water resources in the Mekong delta floodplains: Arsenic and other trace metals pose serious health risks to population, *Environ. Int.*, 34, 756–764, <https://doi.org/10.1016/j.envint.2007.12.025>, 2008.
- de Louw, P. G. B., Eeman, S., Siemon, B., Voortman, B. R., Gunnink, J., van Baaren, E. S., and Oude Essink, G. H. P.: Shallow rainwater lenses in deltaic areas with saline seepage, *Hydrol. Earth Syst. Sci.*, 15, 3659–3678, <https://doi.org/10.5194/hess-15-3659-2011>, 2011.
- Faneca Sánchez, M., Gunnink, J. L., van Baaren, E. S., Oude Essink, G. H. P., Siemon, B., Auken, E., Elderhorst, W., and de Louw, P. G. B.: Modelling climate change effects on a Dutch coastal groundwater system using airborne electromagnetic measurements, *Hydrol. Earth Syst. Sci.*, 16, 4499–4516, <https://doi.org/10.5194/hess-16-4499-2012>, 2012.
- Johnson, A. I.: Drainable porosity – compilation of drainable porosities for various materials, United States Government Printing Office, Washington, Geological Survey water-supply paper 1662-D, 1967.