

Interactive comment on “The integrated water balance and soil data set of the Rollesbroich hydrological observatory” by Wei Qu et al.

Anonymous Referee #1

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First of all, the article is well written, has a clear structure and gives a good overview of the presented data. Below I added some content related remarks and technical corrections:

- Content related questions:

- Line 201: Can you be more precise about the unexpected increase in soil moisture content? Compared to what is it an increase and can it be seen on figure 6? Why was it unexpected?
- Figure 6: Is this a sensor which is representative for all sensors?
- Figure 8: There seems to be a rising trend in the soil moisture signal from the start until the system maintenance (approximately 1.5 years). Was this expected, C1

and if not, is the data still useful/can this be corrected?

- Soil moisture sensors have been installed at 87 locations, what about spatial trends in the data set?
- At <http://www.tereno.net> there seem to be more locations available with soil moisture data within the Rollesbroich catchment. Is it possible to include those extra locations in this paper?

- Technical corrections:

- Line 53: have been → has been
- Line 134: was ... at → was measured at
- Line 239: (DDP) ... as → (DDP) acts as
- Line 243: TEODOOR ... three → TEODOOR in three
- Line 332: space between % and clay
- Line 342: parameter → parameters
- Figure 5: y-axis label: rather 'delta V' than 'V'
- Figure 6: legend: uncorrect-ed, correct-ed
- Figure 7: frame around first 2 subplots, not around last 2 subplots
- Figure 10: units