

Review of

Alleviating interpretational ambiguity in Hydrogeology through clustering-based analysis of transient electromagnetic and surface nuclear magnetic resonance data

P1L31: "...to improve resolution of..." => "...to improve the identification of..."

P5L27 (After the reference to Larsen et al., 2000): This might be a suitable position to inform the reader briefly about T2 and T2*, both being a product of the inversion of the steady state SNMR data. T2 is first mentioned in the results section without any explanation where it comes from. Instead, a short introduction somewhere in the methods section is needed.

P6L6 The information that T2* is linked to pore size should appear before discussing the dead time issue. I recommend copy-and-pasting the whole sentence to P6L1 after "...termination is not possible". The link to the very last sentence in this paragraph ("This can be used...") would get lost in this case, but this one not necessary anyway and can be removed.

P7L8 on => of

P9L15 "results section" => "methods section"

P11L4 in => and

P13L3 First mentioning of T2 – This parameter should be introduced beforehand, please see my comment on P5L27.

P13L13 "...less interaction of excited hydrogen spins with the grain surfaces"

P15L1 The sentence starting with "The two data points..." is a relic from the first version of the manuscript and has to be removed.

P15L8: on => of

P15L8: "...are based..." => "...represent..."

P15L9: "...to provide a type of uncertainty." => "...to demonstrate the uncertainty related to the discretization of the resulting model."

P15L14: Figure 8a

P20L16 Figure 10b

P22L17 "when interpreting based only on a single dataset." => "when interpreting one of the individual datasets alone."

P23L17 "...resulting in interactions leading to..." => "...resulting in a faster exchange of energy between excited hydrogen spins and pore walls leading to..."

P23L30 "which proved sufficient in ..." => "which has proven to be sufficient in ..."

P24L12: Remove the extra bracket

P24L29: "possible better to delineate" => "possible to better delineate"