Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2020-91-AC4, 2020 © Author(s) 2020. This work is distributed under the Creative Commons Attribution 4.0 License.



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Interactive comment

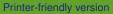
Interactive comment on "A new criterion for determining the representative elementary volume of translucent porous media and inner contaminant" by Ming Wu et al.

Ming Wu et al.

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Received and published: 21 September 2020

Response to Referee #2: Please see the attached PDF file "Response_to_HESS_Referee2_R1.pdf" in which we have given a point-by-point response to Reviewers' comments. Note that the following text in Arial Narrow font denotes Editor's and Reviewers' comments and in Times New Roman font denotes our response to the comments in the review. In our resubmission, the marked PDF file (Wu_et_al_R1_marked.pdf) has clearly indicated all changes to the original manuscript. Also, in our marked PDF file, marked in a green strikethrough font is the text that should be removed from the original manuscript and marked in a red font is





the text that has been added to the revision. In addition, Line number(s) mentioned below is referred to as that line numbering in the marked revised manuscript.

Please also note the supplement to this comment: https://hess.copernicus.org/preprints/hess-2020-91/hess-2020-91-AC4supplement.zip

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2020-91, 2020.

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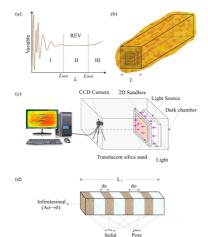


Discussion paper



Fig. 1

Device for acquisition of p



Pore

35

Fig. 1. (a) Variable changes as measured scale (L) increment in conceptual curve (Costanza-

Robinson et al., 2011); (b) Scale effect and the cuboid image window geometry; (c) System

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Discussion paper

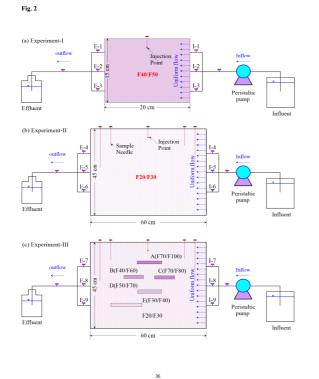
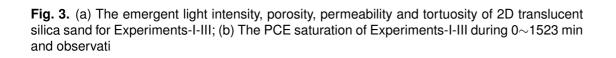


Fig. 2. (a) The system sandbox equipment of Experiment-I; (b) The system sandbox equipment of Experiment-II; (c) The system sandbox equipment of Experiment-III

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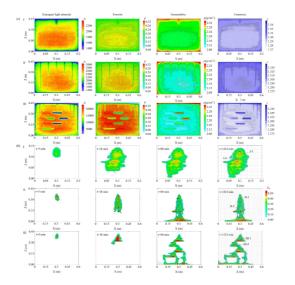
Discussion paper





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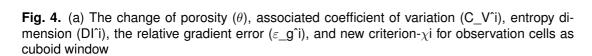
Fig. 3

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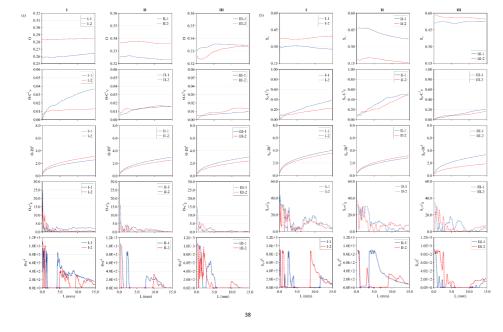
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C6



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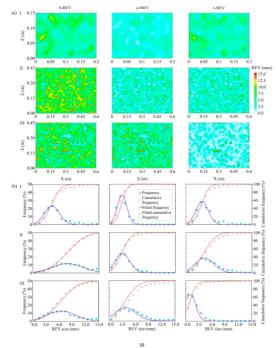


Fig. 5. (a) The distributions of minimum REV sizes of porosity, sand density and tortuosity for Experiments-I-III; (b) The frequency of minimum REV sizes of Experiments and fitted models

Fig. 6

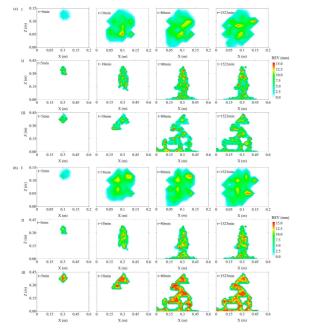


Fig. 6. (a) The distributions of So-REV sizes during $0\sim$ 1523 min for Experiments-I-III; (b) The distributions of AOW-REV sizes during $0\sim$ 1523 min for Experiments-I-III



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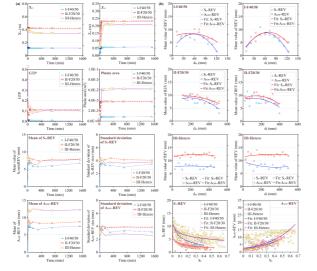
Fig. 7. (a) The mass center coordinate of PCE plume, GTP, plume area and the mean, standard

deviation of So-REV and AOW-REV during 0~1523 min; (b) The change of average REV size

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Fig. 7

as the distance dl, dm increas



Interactive

comment

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