

## ***Interactive comment on “Self-similar pattern formation and continuous mechanics of self-similar systems” by A. V. Dyskin***

**A. V. Dyskin**

Received and published: 1 December 2006

The author is grateful to the reviews for their comments which help improving the quality of the paper. My response to the particular comments is below.

### **1 Referee 1**

#### **1.1 Section 6 on permeability does read as an extension of convenience**

I do not agree. The theory presented in the last part of the paper is a general theory of self-similar scaling of physical properties and state variables. The permeability is an

important property the scaling of which has been addressed in the paper.

## 1.2 Before publication, the English needs to be improved in places

That is done.

## 2 Referee 2 – comments were not available

## 3 Referee 3

### 3.1 The abstract may perhaps be shortened, reflecting in a more concise way the main contributions of the article

Done.

### 3.2 Instead of the word “Chapter” it should say instead “Section” to describe the sections of the manuscript

Done.

### 3.3 I wonder if the author may provide additional intuitive explanations, say eq. (4), eq. (16) and eq (18)

Some further explanations are added.

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

### 3.4 I found section 4 a bit hard to follow and I wonder if it could be shortened without affecting the message of the article.

Unfortunately, this section cannot be shortened as it introduces the theory central to the main conclusions of the paper. Some further explanations are added to the section.

---

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 3, 1879, 2006.

**HESSD**

3, S1595–S1597, 2006

---

Interactive  
Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper