

Interactive comment on “Hourly soil moisture mapping over West Africa using AMSR-E observations and a satellite-based rainfall product” by T. Pellarin et al.

J. Liu (Editor)

water21water@yahoo.com

Received and published: 13 August 2009

This article provides an original and simple method to map hourly soil moisture on a large scale with observations and satellite-based rainfall data. The method is interesting and useful. However, the presentation is far away from clear. The English language is too poor to understand in many places. I suggest publishing it with major revision.

Besides the comments from Referee #1, the authors should pay attention to the following issues:

(1). The English language is rather difficult to understand. The authors have to 10ask

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper



help from a native English speaker to polish the language.

(2). The abstract is too long. It has to be substantially shortened.

(3). Two resolutions are mentioned in the article: $10 \times 10 \text{ km}^2$ and 30 min. 30 min is equivalent to $50 \times 50 \text{ km}^3$. It is not clear whether the authors use both the resolutions or you only use one. Please clarify this. In addition, "30 min" is not professional at all. "30 arc-minutes" should be used.

(4). P4036 Line26: SHOWN→ showed

(5). P4037 Line 26: $10 \times 10 \text{ km}^2$, 30 min. what's your meaning? do you think they are the same resolution?

(6). P4038 LINE 10-12: this sentence is not clear at all. Pls polish it!

(7). P4039 Line 1-4: explain the reasons for the differences. Line 18: P_j (subscript!!)

(8). P4042 Line 11 "This yields to modify..." I do not understand this sentence.

(9). P4043 Line 3 "locale" is not correct. locale→local. This word is used incorrectly many times in the paper. Correct all! Line 12: June 1st to 30 September: both the dates do not share the same format. LINE 20: "Untrue" is not a correct word here.

(10) P4045 Line 5-7: this sentence is not clear at all. Polish the language.

(11) P4046 Line 1-3: not clear at all. Line 8-9: not clear at all. Line 22-24: not clear at all. Line 29: R2 coefficient → R2. This suggestion applies to other places.

(12) Line 17: based on the use of a rainfall.. →based on a rainfall (13) P4049 Page 7: "essentially" is not a suitable word here. Page 10: Calibration/Validation → calibration/validation

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 6, 4035, 2009.

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

