**Hydrology and
Earth System
Sciences**

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Discussions

Interactive comment on "Building long-term and high spatio-temporal resolution precipitation and air temperature reanalyses by mixing local observations and global atmospheric reanalyses: the ANATEM method" *by* A. Kuentz et al.

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All three reviewers find the manuscript very interesting, globally well written and suggest only minor revisions for publication in HESS. I would like to ask the authors to answer these reviews as soon as possible and well before preparing the revised version (detailed suggestions about the language do not need a detailed answer in the public discussion).

I would like to add a further comment on the mathematical notation: HESS does not

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Interactive Discussion

Discussion Paper

use multi-letter variable names, which is well respected by the notation used in the manuscript. But I do not think that notations like $T_{\mathrm{LM,ANA}^k_d}$ with multi-letter indices and with nested indices are useful (I am not even sure I have seen this before). First of all, why is the time step d not written as an argument, i.e. $T(d)$.? Next, I would suggest to use a similar notation as in Bayesian statistics where $T(d|k, M_A)$ would stand for the temperature on day d given the model M_A and given the k-the analogue.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 311, 2015.