

Interactive
Comment

Interactive comment on “Dynamic seasonal nitrogen cycling in response to anthropogenic N-loading in a tropical catchment, Athi–Galana–Sabaki River, Kenya” by T. R. Marwick et al.

Anonymous Referee #2

Received and published: 1 September 2013

P8646, L14: Data of NO₂ is not presented. Is it negligible and is DIN assumed to be a sum of NH₄ and NO₃?

P8646, L29: Is “5–7 60 mL” correct?

P8649: Data of conductivity shown in Fig. 2d is not described in the text at all.

P8449–8650, 8656: Total DIN is discussed without any figures or tables. Similar to the question in P8646, L14, results on DIN and N compositions should be presented in more detail.

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P8650, L11: The 2nd “WRST” should be “WSRT”.

P8650, L23: CH4 in Fig. 4b should be touched.

P8651, L1-12: Comparison of d18O and POC:PN between three seasons are not shown in any figures or tables.

P8652, L19-23: Because data of river discharge was not available, loading of nitrogen or sediment cannot be directly discussed. Thus, the authors should avoid such an expression as “it is apparent that these seasonal DIN export observations agree with the suggestion of. . .”.

P8654, L19-22: The authors did not present any proof on “the dense coverage of the water surface by macrophytes during the dry season may inhibit the outgassing of N2O to the atmosphere”.

P8655, L11: “where NO3- is” should be “where delta NO3- is”.

P8660, L20: “Mayorga et al., 2010” is not listed in the references section.

P8674, Fig. 1(a): Please indicate Nairobi River, Athi River, Tsavo River, Galana River, etc. in the map so that readers can understand the distribution of important land uses.

P8674, Fig. 2: “Dissolved O2” and “pH” should be switched according to the order in the text.

P8682, Fig. 10(b): Please explain how to draw the non-linear line.

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