

## ***Interactive comment on “Regional-scale identification of groundwater-surface water interaction using hydrochemistry and multivariate statistical methods, Wairarapa Valley, New Zealand” by M. R. Guggenmos et al.***

**Anonymous Referee #1**

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In general terms, the use of English language is very correct and comprehensible and the figures are very clear as well. However, there are some suggestions about the figures and tables and little typographic corrections/suggestions about the text that I would like to remark:

In table 1, S26/0001 has no value in bold text marking which value might have led the site to be identified as outlier.

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In table 3, HCO<sub>3</sub> is not marked in bold despite being referred in the text as one of the elements with higher weighting.

Figures 2a-2c are only readable when using zoom 300%, if it were possible to separate them, they would be easier to consult. As well, I would rather recommend color scales than grey scales for the maps.

Figure 6 should be corrected on its legend on line 2 and 3 (see attached pdf).

In Figure 9 it might be useful to put the axes crossing at (0,0) so it would be easier to distinguish when the values of each component tend to be negative or positive.

During the text, clusters are referred as “cluster” (with lower case c) at the beginning and tend to be referred as “Cluster” (with capital C) at the end. I would homogenize them.

Other typographic corrections/suggestions are found on:

Page 6445, line 12, line 24

Page 6446, line 28

Page 6447, line 6

Page 6450, lines 21-23

Page 6452, line 15

Page 6453, line 15

Page 6460, line 19, line 29

Page 6462, line 21

Page 6463, line 3

Page 6465, line 8, line 12, line 14, line 14

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Page 6466, line 28, line 29

Page 6468, line 13

See the attached pdf file, for these last corrections/suggestions, they are marked as comments.

I hope these comments are useful for the correction of this article.

Please also note the supplement to this comment:

<http://www.hydrol-earth-syst-sci-discuss.net/8/C3677/2011/hessd-8-C3677-2011-supplement.pdf>

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