Hydrol. Earth Syst. Sci. Discuss., 8, C2669-C2671, 2011

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Interactive comment on "Classification of thermal waters based on their inorganic fingerprint and hydrogeothermal modelling" by I. Delgado-Outeiriño et al.

I. Delgado-Outeiriño et al.

jsimal@uvigo.es

Received and published: 10 July 2011

Please, find attached: 1) reply to referee 2 (as figure-1.pdf) 2) new manuscript version after revision (as figure-2.pdf)

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 4559, 2011.

C2669

Thanks for the comments

Please locate Galicia. Galicia was located.
Please replace "partial lest squared" for "partial least squared". "Least" has been already

changed. - Please, consider re-phrasing the last paragraph. The last paragraph has been re-written.

Results and discussion

- I guess there is a mistake in this section. In the section 3 "Results and discussion" should be included:

- 3.1. Chemical composition of waters and ionic ratios. 3.2. Geothermometer results.
- 3.3. Hydrogeochemical modelling.

I think I makes no sense the present form of this section.

Yes, there should be a mistake. The subsections 'geothermometer results' and hydrogeochemical modelling' should be in the section of 'results and discussion'.

Page 4566 in the last paragraph the authors said that samples of cluster I were the youngest nes. Could the authors explain it?

ones. Outure a union seguini in the We believe the rate enough parameters to conclude that water samples corresponding to group lare young water or maybe water samples that are continually mixing with groundwater. Figure 3 shows as the Ca-5, Mg-7 and Fe/2 content, as well as hardness and height characterize the waters of this group. Firstly, the higher content in Ca-2 and Mg-7 of these waters according to the sequence of Chebotare includes the presence of youngstratice water. These results are correborated with those obtained by the ratios CT/FSO, *, CT/HCO,* and Ct/*-SO,*-7/HCO,* and Ct/*-SO,*-7/HCO,*- and

Under the references, some journal titles were abbreviated while others were not. The authors should be consistent.

Fig. 1. reply to referee 2

Hydrol. Earth Syst. Sci. Discuss., 8, 4559-4581, 2011 www.hydrol-earth-syst-sci-discuss.net/8/4559/2011/ doi:10.5194/hessd-8-4559-2011

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This discussion paper is/has been under review for the journal Hydrology and Earth System Sciences (HESS). Please refer to the corresponding final paper in HESS

Classification of thermal waters based on their inorganic fingerprint and hydrogeothermal modelling

I. Delgado-Outeiriño 1 , P. Araujo-Nespereira 1 , J. A. Cid-Fernández 1 , J. C. Mejuto 2 , E. Martínez-Carballo 3 , and J. Simal-Gándara 3

¹Geodynamics Group, Marine Geo-science and Territory Rationalization Department, Faculty of Science, University of Vigo, Ourense Campus, 32004 Ourense, Spain ²Physical-Chemistry Department, Faculty of Science, University of Vigo, Ourense Campus,

32004 Ourense, Spain

Nutrition and Bromatology Group, Analytical and Food Chemistry Department, Faculty of Food Science and Technology, University of Vigo, Ourense Campus, 32004 Ourense, Spain

Received: 29 March 2011 - Accepted: 15 April 2011 - Published: 5 May 2011

Correspondence to: J. Simal-Gándara (jsimal@uvigo.es)

Published by Copernicus Publications on behalf of the European Geosciences Union.

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Fig. 2. new manuscript version after revision

HESSD 8, 4559-4581, 2011 Classification of thermal waters based on their inorganic I. Delgado-Outeiriño et al.