

Interactive comment on “The dynamics of cultivation and floods in arable lands of central Argentina” by E. F. Viglizzo et al.

E. F. Viglizzo et al.

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Comment of D. Le Maitre:

It is not clear to me why the authors use administrative boundaries rather than hydrological or geo-hydrological boundaries to delineate subunits for analysis or simply treat each rainfall and groundwater level as a separate record (subdivided into highland and lowland as appropriate).

Reply from Viglizzo E F:

Good point. To study the dynamics of cultivation and floods along a 25-year period we decided to take advantage of existing records (on land use, precipitation and groundwater level) from different sources. Given that land-use data (provided by public-service

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surveys) were organized in political districts, we proceeded on a district-oriented analysis. Therefore, we also arranged precipitation and groundwater records to a district format. This may not be ideal considering current remote-sensing technology, but certainly preserved us from setting aside valuable long-term data-sets.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 5, 2319, 2008.

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