

***Interactive comment on* “Changing climatic and anthropogenic influences on the Bermejo wetland, through archival documents – Mendoza, Argentina, 16th–20th centuries” by M. R. Prieto and F. Rojas**

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REFERI 2

“This research on documentary sources has a short number of previous references. Then, working on unexplored fields, methodological aspects must be worked carefully to optimize information collected from historical archives, evaluating results with critical attitude with the aim to help and improve future works”.

Answer-: Methodological aspects have been worked carefully to optimize information

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collected from historical archives. Evolution of Bermejo wetland have been analyzed from documentary sources. This work is the fruit of several years of systematic research, searching and gathering information on specific documentary sources in the Historical Archive of Mendoza. We drew a long term plan to exhaust all existing information on the subject. The information was traced according to natural and anthropogenic indicators previously determined. In the Appendix at the end of the text, we added a complet list of documents used from Colonial and Independent periods of Mendoza Historical Archive. There is much information on the subject. An extensive search was performed in regional and national archives, but we concluded that the information from Archivo Histórico de Mendoza was the best, most complete and realistic for our analysis.

Referi 2 asked also for and a short description about: characteristics of Mendoza River and its basin River regime, statistics about water discharge, characteristics about wetlands area.

Answer: That Referi 1 asked it also. Is done: a more clear description of methodology work on archive and a short description of Mendoza River and statistic are included in the Study Area Section .

-Referi 2- Chapter 3 "Methodology and sources" must be extended. It contain any results, but this chapter must focuse on documentary sources worked: type of historical archives, relation of documentary sources selected and collected, criteria applied for that, information contained on documents, information obtained, how this collection is made”

Answer: Methodology and sources was extended, as both in the construction of the series of Mendoza river flow, as in the reconstruction of the surface of the swamp, we explain the treatment of information and a complete relation of documentary sources selected and collected was included at the end of text in the Appendix: referencial information: archive, doc. series, codes, years, vol., pages... It is done

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- Referi 2: This is very evident for cartographic sources. Why only four maps are showed and analyzed

Answer: In Methodology and sources, we explain the processes of selection of the maps and why we choose specially that selected maps (for this new version we added one more from 1874) According to referee 1 indications, this has been clarified.

Technical corrections: - p. 3777, line 19. "the archival use of maps to reconstruct changes" is a sentence with no clear significance.

Answer: We made a clear reference to the maps as "documentary sources" in the case of manuscripts. "Archivo Histórico de Mendoza" was written in italic as previous references. - p. 3781, line 15. "," by "."

Interactive comment on Clim. Past Discuss., 7, 3775, 2011.

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