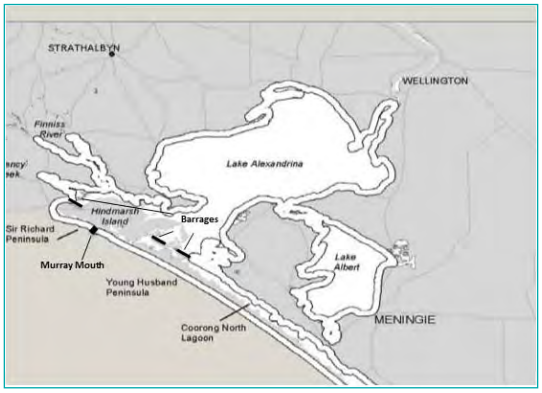
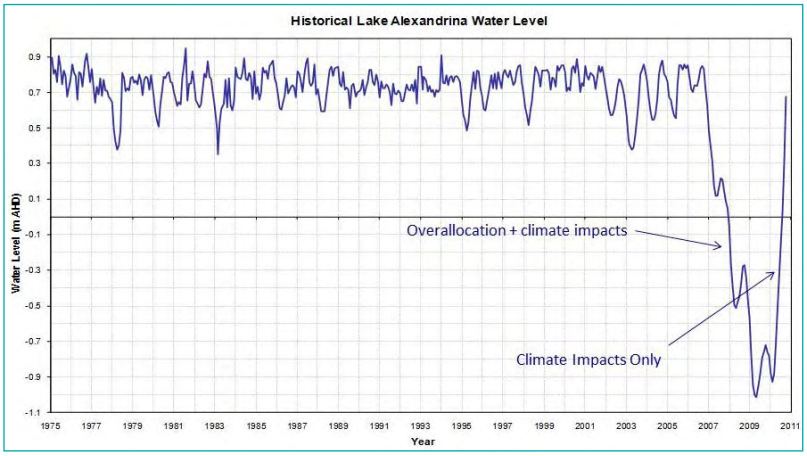


Above: Map of Lakes Alexandrina and Albert showing the River Murray entering downstream of Wellington and exiting at the Murray Mouth. Map: Kerri Muller.



Right: Lake Alexandrina water levels during the Millennium Drought dropped to unprecedented lows ~50 cm above the modelled widespread acidification tipping point. Normal pool level fluctuates around +0.75 mAHD. Graph: Kerri Muller.

Bibliography and notes

1 Ngarrindjeri Nation (2007) Sea Country Plan: Caring for Ngarrindjeri Country and Culture. Ngarrindjeri Tendi, Ngarrindjeri Heritage Committee and Ngarrindjeri Native Title Management Committee, Meningie, South Australia.

2 Fitzpatrick R., Shand P., Marvanek S., Merry R., Thomas M., Raven M., Simpson S. and McClure S. (2008) Acid sulfate soils in subaqueous, waterlogged and drained soil environments in Lake Albert, Lake Alexandrina and River Murray below Blanchtown (Lock 1): properties, distribution, genesis, risks and management. CSIRO Land and Water Science. Report 46/08, ***and*** Fitzpatrick R., Grealish G., Shand P., Marvanek S., Thomas B., Creeper N., Merry R. and Raven M. (2009) Preliminary assessment of acid sulfate soil materials in Currency Creek, Finniss River, Tookayerta Creek and Black Swamp region, South Australia. CSIRO Land and Water Science. Report CLW 01/09.

3 Murray-Wallace C.V., Bourman R.P., Prescott J.R., Williams F., Price D.M. and Belperio A.P. (2010) Aminostratigraphy and thermoluminescence dating of coastal aeolianites and the later Quaternary history of a failed delta: The River Murray mouth region, South Australia. Quaternary Geochronology 5: 28–49.

4 Cann J.H., Bourman R.P. and Barnett E.J. (2000) Holocene foraminifera as indicators of relative estuarine-lagoonal and oceanic influences in estuarine sediments of the River Murray, South Australia and their palaeoclimatic implications. Quaternary Research 53: 378–391.

5 Fluin J., Haynes D. and Tibby J. (2009) An Environmental History of the Lower Lakes and Coorong. Available from: http://www.environment.sa.gov.au/files/sharedassets/public/cllmm/cons-gen- environmentalhistorycoorongloweralakes.pdf [11 September 2015].

6 Hammer M., Unmack P.J., Adams M., Johnson J.B. and Walker K.F. (2010) Phylogeographic structure in the threatened Yarra Pygmy Perch *Nannoperca obscura* (Teleosti: Percichthyidae) has major implications for declining populations. Conservation Genetics 11: 213–223.

7 Hipsey M.R., Busch B.D., Coletti J.Z. and Salmon S.U. (2011) Lower Lakes hydro-geochemical model development and assessment of acidification risks. University of Western Australia Technical Report prepared for South Australian Water Corporation, Adelaide.

8 Sim T. and Muller K.L. (2005) A fresh history of the lakes: Wellington to barrages, 1800s to 1935. River Murray Catchment Water Management Board, Berri, South Australia.

9 Pumping water from Lake Alexandrina to Lake Albert to stay above its tipping point prevented widespread acidification. Muller (2011) also considered stopping pumping to Lake Albert.

10 Muller K.L. (2008) Environmental Impact Assessment for the proposed temporary weir at Pomanda Island. South Australian Department of Environment and Heritage.

11 Muller K.L. (2011) Ecological consequences of managing water levels to prevent acidification in Lakes Alexandrina and Albert: Technical Report. Report to the Department for Environment and Natural Resources, Adelaide, South Australia.

12 MDBA (2014) Drought Emergency Framework for Lakes Alexandrina and Albert, Commonwealth of Australia.

13 For review see: Balston J.M., Billington K., Brodhurst O., Kosturjak A., Milne T., Muller K.L., Rebbeck M. and Trevithick M. (2012) Gap identification of the climate change impacts on the Murray-Darling Basin region of South Australia. South Australian Murray-Darling Basin Natural Resource Management Board, Strathalbyn, South Australia.

14 Maunsell (2008) Environmental Impact Assessment for proposed weir at Pomanda Island, near Wellington in South Australia. South Australian Department for Environment and Heritage.

15 Objective of 2 million tonnes of salt from the River Murray System into the Southern Ocean each water accounting period. S9.09, Basin Plan (2012).