

## ***Interactive comment on “Determining regional limits and sectoral constraints for water use under climate change” by T. K. Lissner et al.***

**R. Harding (Referee)**

rjh@ceh.ac.uk

Received and published: 27 May 2014

This paper uses the results of two climate models and two RCPs, as well as climate projects, to assess the impacts of climate change and population increase on the adequacy of water resources. The aim is to produce an analysis which will produce integrated overviews which are useful in the policy context. A methodology is described and applied to two case studies. The presentation of the impacts of climate and social change across regions is a considerable challenge and I would say this paper is a useful contribution to this process. Broadly the paper is clearly written and presented and I can recommend publication with minor amendments.

A few detailed comments: 1. Page 4699: A schematic of the approach would be useful.

C1561

2. Page 4700 lines 9 to 11. This is awkward phrasing – the word ‘account’ is used in two different senses in the sentence. See also line 26. 3. Page 4701 line 2. ‘Detailed analyses’ of what?

4. Page 4702 line 8. I suggest referencing: Michelle T. H. van Vliet et al. Vulnerability of US and European electricity supply to climate change, *Nature Climate Change*, 2, 676–681 (2012) 5. Page 4707 section 2.3.2. I would like to see some more detail and context on the climate change and population scenarios used – for example how does the rainfall change in the two regions? 6. Page 4714 lines 13 and on. How good is the data from other regions – is there a recommendation on collecting better information? 7. Page 4714 lines 21 and following. How would we verify these results – are they realistic?

---

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 4695, 2014.

C1562