## Interactive comment on "Changes in the strength and width of the Hadley circulation since 1871" by J. Liu et al.

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Received and published: 13 March 2012

It is an interesting contribution. The paper nicely illustrates the great potential of the 20CR (Twentieth century reanalysis) to study atmospheric processes over a much longer period than previously was feasible.

I do not comment the data analysis or the conclusions I think official reviewers will do this. However, I have some minor remarks regarding the structure of the paper and the figures. First of all, 'Results' chapter encloses discussion material as well. Hence I suggest renaming this section as 'Results and Discussion’. In addition some primary data assessment (i.e. spectral analysis) is mentioned only in the 'Conclusions'. I recommend presenting the spectral analysis also in the 'Results and Discussion' section. Ideally with detailed methodology, because to provide a statistically solid proof to verify
the mentioned 'secular peak' from a 137yr long time series sounds to be particularly challenging. A figure to visualize these results would be also warmly welcomed.
Vertical axes of the plots in Fig 2 and Fig 4 lack title and dimension. I ask Authors

8, C119-C120, 2012

Interactive
Comment

