

***Interactive comment on* “Dynamics of resource production and utilisation in two-component biosphere-human and terrestrial carbon systems”
by M. R. Raupach**

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The paper is an interesting contribution in the field of earth system science and matches the objectives of the special issue in particular with respect to pattern dynamics. Although the hydrological aspects are implicitly considered in the paper, it is a valuable contribution. Overall the reviews have been positive in the sense that the paper provides a valuable contribution to the understanding of the biosphere - human interaction and the terrestrial carbon system and as such should be part of this special issue.

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The main critical point has arisen from the fact that the analytical approach requires simplifying assumptions in order to provide general outcomes. This is a typical conflict that occurs when the simplifying assumptions are being questioned while the need to arrive at general patterns derived from analytical solutions of system equations has been given priority. I would like to point out that simplicity is not a drawback as long as the limitations and the applicability are discussed adequately. Some suggestions on the validity of the model assumption have been made by one of the reviewer and the response by the author seems adequate to address these points. In light of this, a revised manuscript that incorporates comments on the issues addressed in the author's response should be published.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 3, 2279, 2006.

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