

Review Comments on gmd-2017-97

Evaluation of Integrated Assessment Model hindcast experiments: A case study of the GCAM 3.0 land use module

The authors revision makes clearer the objectives of this paper and many of the concerns are resolved. Here I point out some of the remained issues.

>Reviewer comment: - Line 3 P2; Are the references all GCAM 3.0?

>Authors' response: Unless otherwise noted, yes.

- Is Edmonds and Reilly (1985) really GCAM 3.0? I am not fully sure from when GCAM uses the version 3.0 but my understanding is that ERB model is not GCAM3.0.

> Reviewer comment: - Line1 P14; I cannot understand this sentence. are USA producer prices used globally?

> Authors' response: we have rewritten this and moved it to our expanded GCAM background section 3.1.

> Authors' changes: Beginning on page 7 line 31, the text now reads: "GCAM uses a global market price (where global supply equals global demand) to set producer prices used by economic agents in profit calculations underlying land allocation decisions. Currently, every land use region shares the same producer price, initially the US base year price for calibration.

- Producer price is available globally from FAOSTAT. Explanation is needed why they use US price