

## ***Interactive comment on “Optimizing cropland cover for stable food production in Sub-Saharan Africa using simulated yield and Modern Portfolio Theory” by P. Bodin et al.***

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Thank you for referring this yield dataset.

Just two small comments related to your following statement: "Secondly, the climate input data used in this study was based on GCM model runs which albeit having been bias corrected cannot be said to represent the actual climate variability for each individual grid cell even for current climate."

1) The downward shortwave radiation data obtained from the Japanese 25-year reanalysis were used as the input when estimating crop yields. Reanalysis data are GCM outputs generated using the data assimilation technique to force a GCM to follow

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observation.

2) In addition to yield estimates, the yield dataset of Iizumi et al. (2014) includes grid-cell yield statistics values (though only for available grid cells).

Just for your reference.

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Interactive comment on Earth Syst. Dynam. Discuss., 5, 1571, 2014.