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Reply on RC1

Lore Talle Verryckt et al.

Author comment on "Vertical profiles of leaf photosynthesis and leaf traits, and soil nutrients in two tropical rainforests in French Guiana before and after a three-year nitrogen and phosphorus addition experiment" by Lore Talle Verryckt et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-142-AC1>, 2021

We thank reviewer 1 for their positive assessment of our manuscript. We have requested and received the monthly rainfall data at both sites during the period of the experiment and will include these data in the dataset.

The B/S/T symbol indicates the topography of our plots, referring to the plots situated at the bottom of a valley, the slope or intermediate section of the elevation, and hilltops where the slope evens out. These valley bottoms and hilltops only differ maximal 20-50m in elevation over horizontal distances of 200-400m. The differences in topography result in differences in soil structure (more sandy at the bottom and more clayey at the top) and thus nutrient availability. All plots are situated in lowland tropical forests with high incoming solar radiation. It follows that the solar energy that is incident on these plots over a set period of time is similar. Therefore, we do not see the added value of the insolation index.