

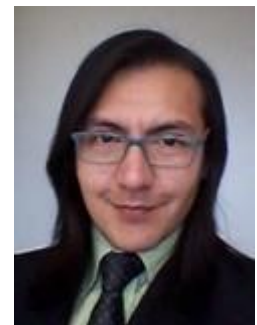


DR. CARLOS ANGULO

Scientific support

Approaches for characterization and assessment of agricultural production and productivity

Keywords: Yield assessment, Productivity characterization, Agricultural systems transformation, Modelling.



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I apply, develop and implement a variety of conceptual and mathematical modelling tools and approaches in order to gain insights in the mechanisms influencing agricultural production and productivity.

I am working with two main focus in the project GlobE-Wetlands in East Africa:

1. Characterization of wetlands in respect to their agricultural use suitability.
 Based on the work of transdisciplinary team, a potential agricultural production typology is developed. Supported by a potential production typology, causal relationships of disparities between suitable and actual use are assessed in order to offer coherent guidance for the dilemma of using or protecting wetlands.
2. Determination of main productivity constrains in rice based wetland agricultural systems.
 In cooperation with AfricaRice, an extensive on-farm survey and validation on-farm experiments are carried out. Data obtained from both mentioned sources are used for yield variability and yield gap analysis. Alternatives to improve productivity are given based on the obtained importance of yield limiting factors.

Cluster	All
Work Package	All
Countries of work	Kenya, Tanzania, Ruanda,Uganda
Institute	Institute of crop science and resource conservation – Division plant nutrition in the (sub)tropcis.
University/Organisation	University of Bonn