

## Poster# 90

### **Overview of Research Activities at the K34 Site in Manaus, Brazil: Long-Term Datasets and New Data Collection Initiatives**

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Located in the Cuieiras Biological Reserve, about 60 km North of Manaus, Brazil, the K34 site is an intact area in the Amazon tropical forest. The site has been studied for decades, with research activities intensifying after the installation of a 50 m tall tower in 1999. The tower and the surrounding area are well instrumented and data have been collected and used to answer questions ranging from effects of drought, to seasonality of photosynthesis, to carbon assimilation potentials, among many others. These long records of data are invaluable to address questions about long-term effects of climate change, inter-annual variability of vegetation productivity, and validation of long running remote sensing time series, to name a few. Recent additions in research focus and data collection activities are enabling further development of the state-of-the-art in tropical research. In particular, the site is now one of the pilot study sites for the NGEE-Tropics project, and joint research activities are already leading to new insight into effects of a warmer climate, changes in wind regimes, and better understanding on mechanisms regulating emission of volatile organic compounds. This poster will show a summary of the ongoing research efforts at the site, highlighting recent results obtained from long-term datasets and new data collection activities and also opportunities for further investigation.