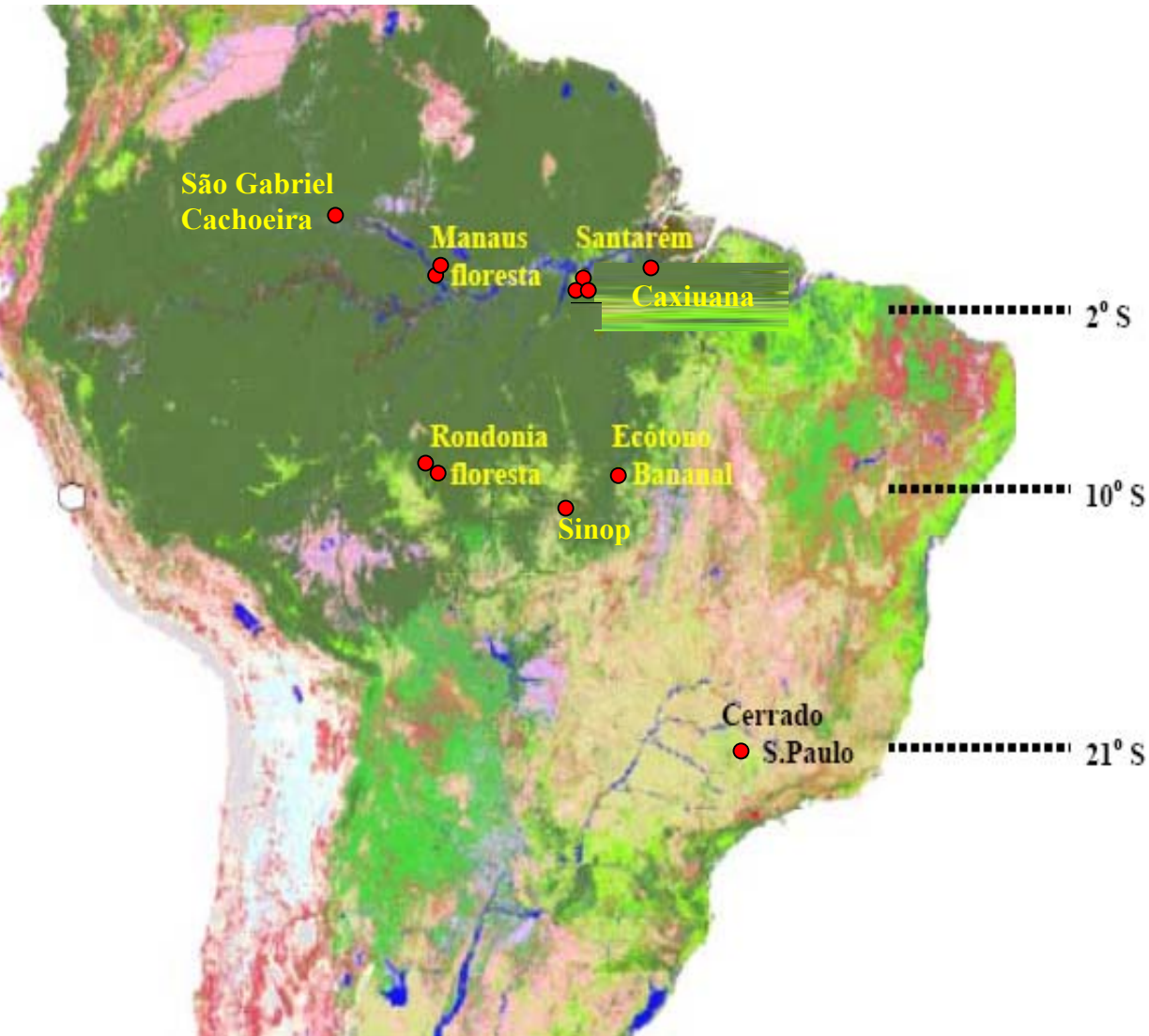
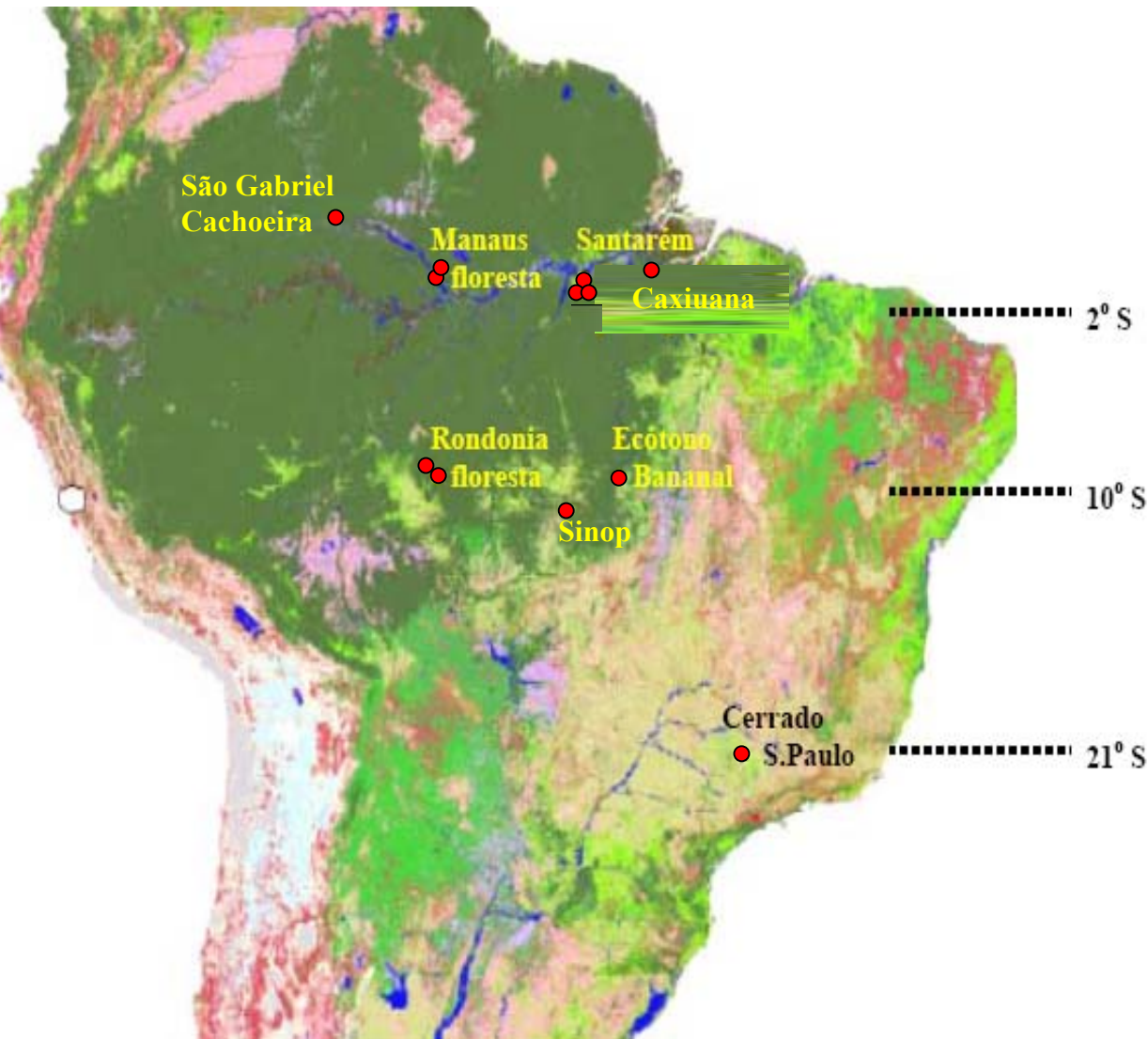


Scaling Carbon Fluxes with models and remote sensing



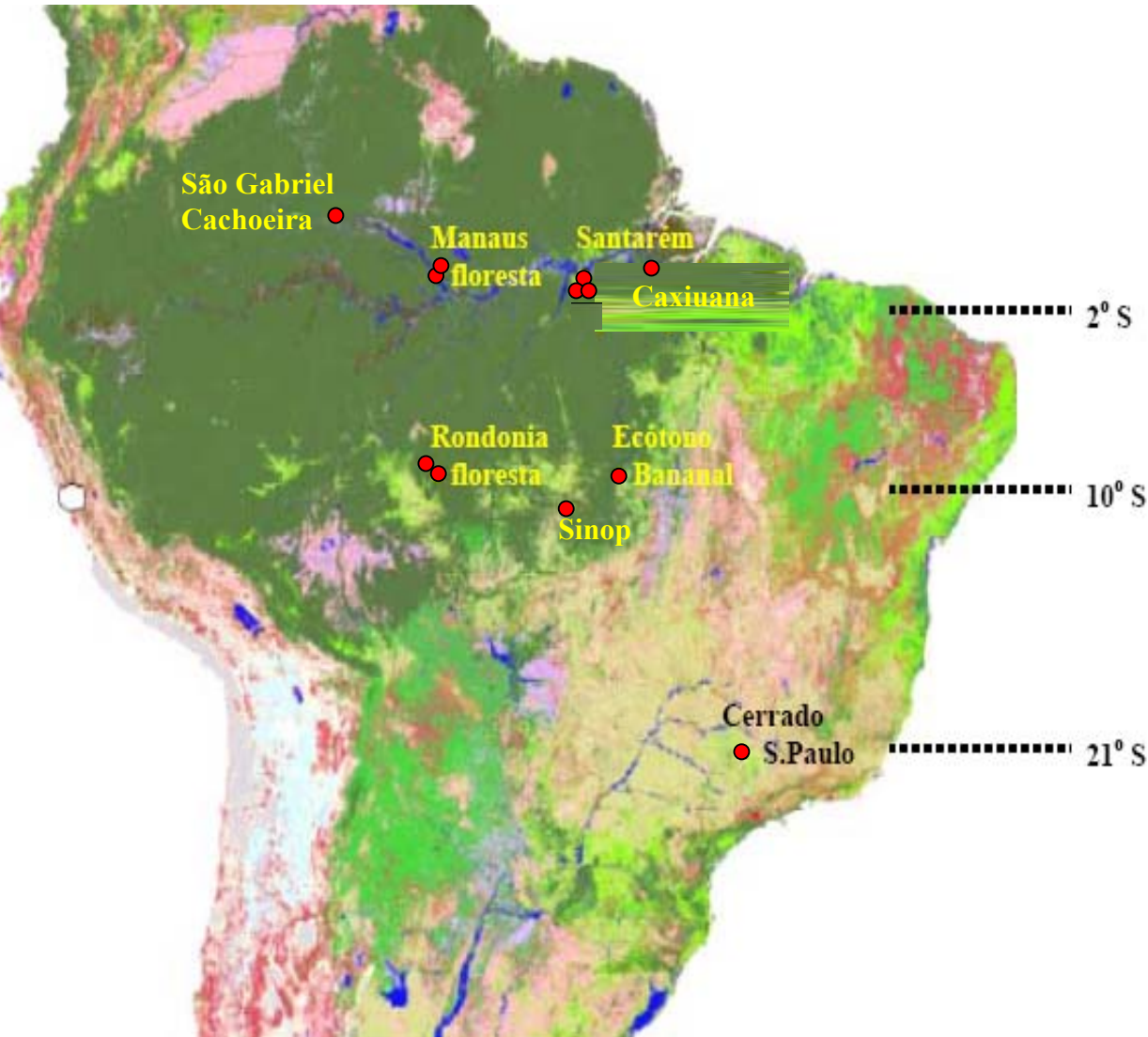
Scaling Carbon Fluxes with models and remote sensing



Eddy flux data from a dozen towers spans:

- 1.5 - 3.5 m annual precip
- from 0° - 21°S
- from primary wet forest to Cerrado, including pasture and agriculture sites

Scaling Carbon Fluxes with models and remote sensing



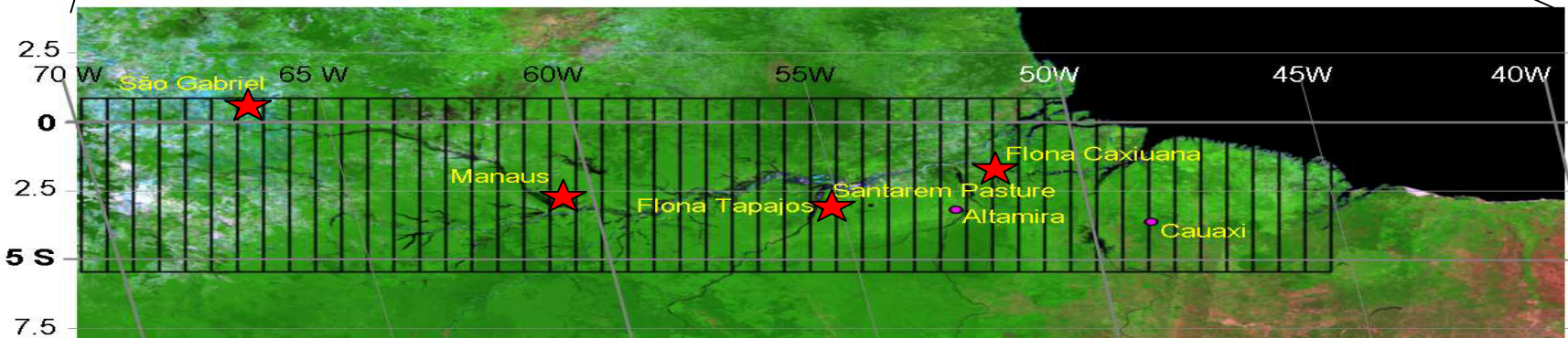
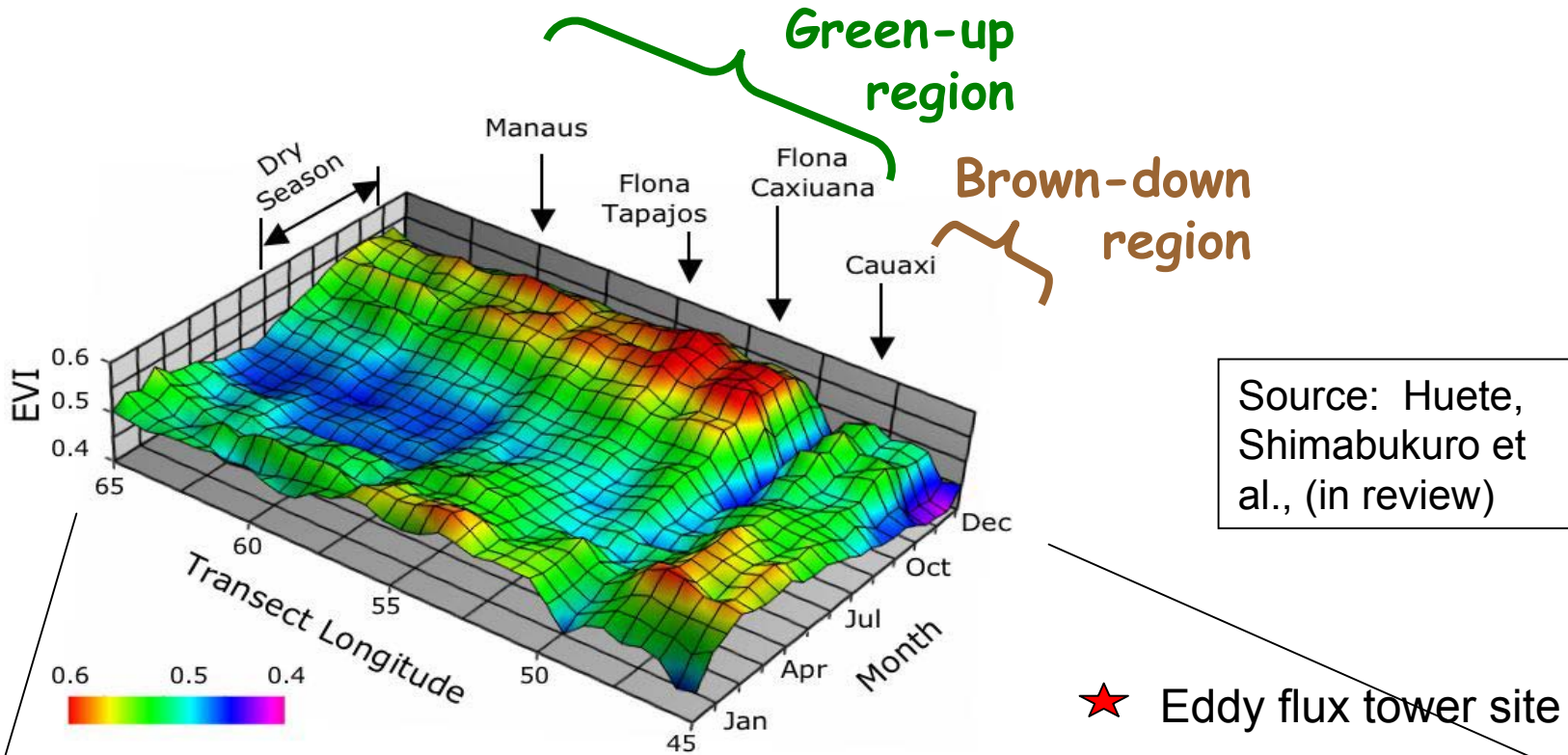
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Goals for Data

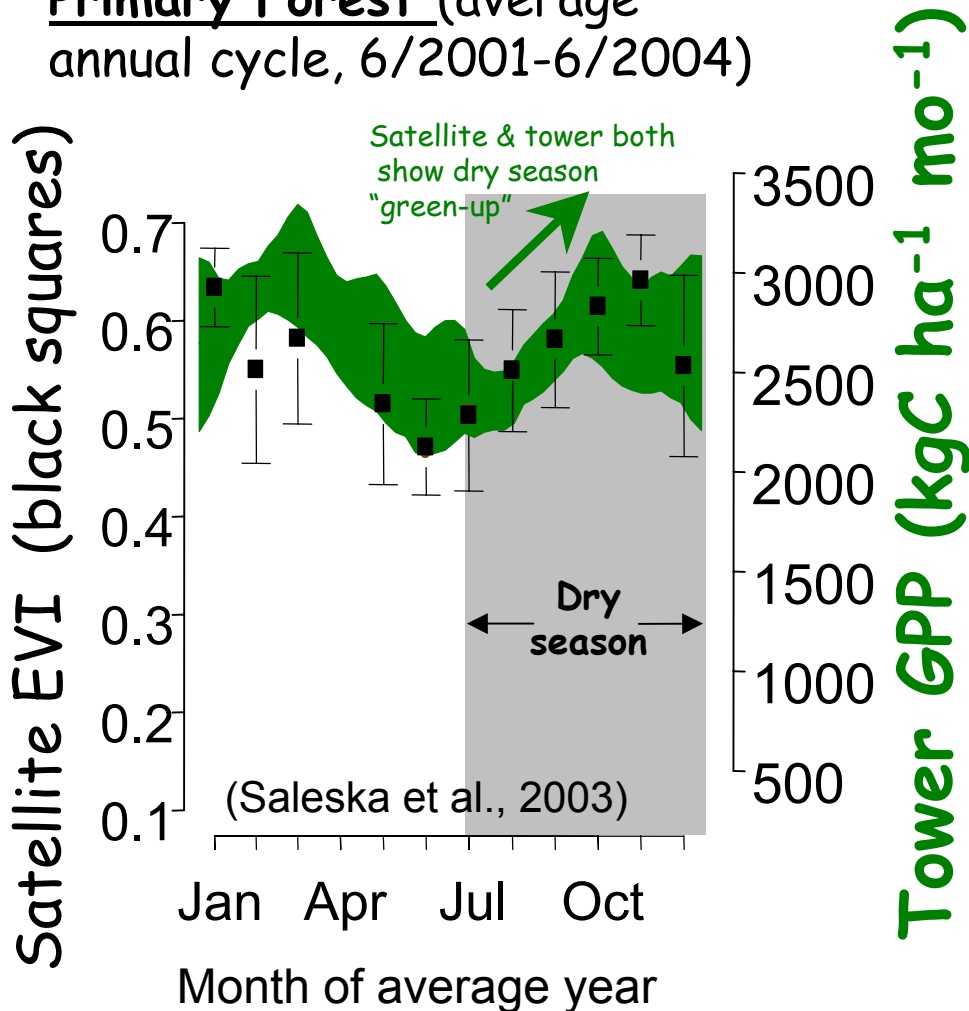
- Cross-site comparisons of ecosystem properties
- parameterize and test models
- data-grounded extrapolations with remote sensing

EXAMPLE: Remote sensing Data (MODIS Enhanced Vegetation Index, EVI) shows that broad areas of Amazon forest “green up” in the dry season:



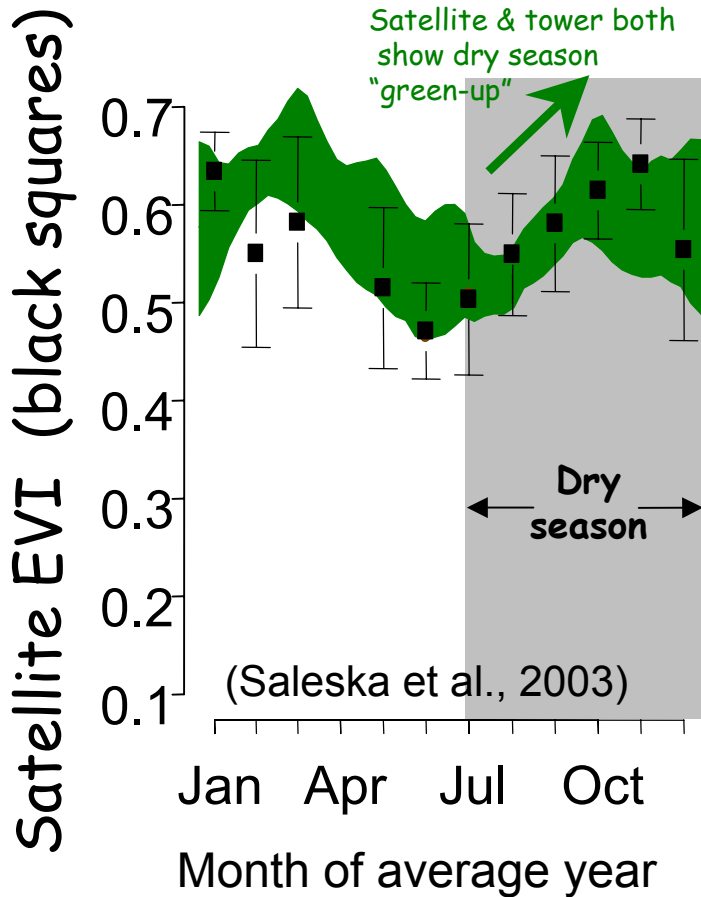
EXAMPLE: Santarem region ground-test: satellite observations (MODIS EVI) vs. Tower-based GPP

Primary Forest (average
annual cycle, 6/2001-6/2004)

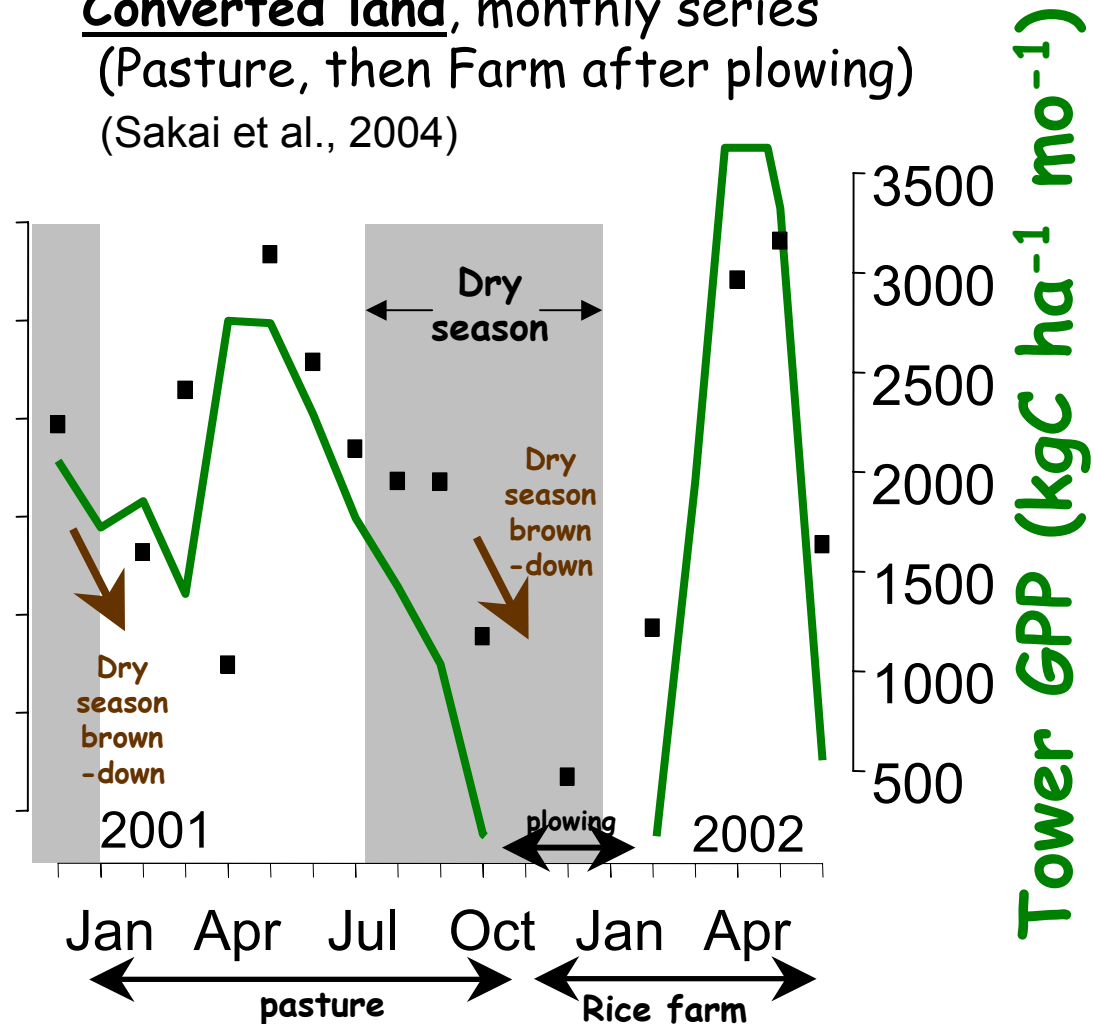


EXAMPLE: Santarem region ground-test: satellite observations (MODIS EVI) vs. Tower-based GPP

Primary Forest (average
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Converted land, monthly series
(Pasture, then Farm after plowing)
(Sakai et al., 2004)



Goals for synthesis breakout on "Scaling carbon fluxes"

Saturday, 10:30am, Co-Chairs: S. Saleska, A. Nobre, H. da Rocha

Goals for synthesis breakout on "Scaling carbon fluxes"

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- Bring together community working on eddy flux tower measurements, modeling, and remote sensing
- Develop plan to generate Products:
 - integrated eddy flux dataset (rigorously cross-checked) from multiple sites
 - Model testing with integrated flux dataset
 - Remote sensing extrapolation from integrated flux dataset
- INPA-hosted Workshop in 2006