BigFoot
LAI Seasonal Trajectory
Hardwood Forest

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest

![LAI Seasonal Trajectory](image_url)
BigFoot
Meteorological Inputs

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest

Precipitation (cm)

Minimum Temperature (°C)

Maximum Temperature (°C)

Vapor Pressure Deficit (kPa)

Shortwave Radiation (MJ m\(^{-2}\) d\(^{-1}\))

PAR (MJ m\(^{-2}\) d\(^{-1}\))

Day of Year

Day of Year

Day of Year
BigFoot
GPP Comparison
BigFoot vs. Tower

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest

BigFoot vs. Tower GPP Comparison

RMSE = 0.93
**BigFoot**

**GPP Comparison**

**BigFoot vs. MODIS**

**Year: 2002**

**Site: HARV (Mass., USA)**

**Biome: Hardwood Forest**

![Graph comparing BigFoot and MODIS GPP](image-url)

- **BigFoot GPP (gC m$^{-2}$ d$^{-1}$)**
- **MODIS GPP (gC m$^{-2}$ d$^{-1}$)**

- **Day of Year**
- **RMSE = 2.56**

- **BigFoot GPP**
- **MODIS GPP**

- **GPP (gC m$^{-2}$ d$^{-1}$)**
- **MODIS GPP (gC m$^{-2}$ d$^{-1}$)**
BigFoot
NPP Comparison
BigFoot vs. MODIS

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest
BigFoot
Carbon Flux Comparison
BigFoot vs. MODIS

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest

![Bar graph comparing BigFoot and MODIS carbon fluxes](image)

- **Carbon Flux (gC m\(^{-2}\) yr\(^{-1}\))**
  - BigFoot:
    - Net Primary Production: 400
    - Autotrophic Respiration: 600
  - MODIS:
    - Net Primary Production: 400
    - Autotrophic Respiration: 600
BigFoot
Meteorological Comparison
Tower vs. DAO*

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest

* DAO – Data Assimilation Office
BigFoot FPAR Comparison
BigFoot vs. MODIS

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest

![Graph showing the comparison of BigFoot FPAR (fraction) and MODIS FPAR (fraction) over the course of a year. The x-axis represents Day of Year, and the y-axis represents FPAR (fraction). The graph includes a scatter plot showing the correlation between BigFoot FPAR and MODIS FPAR.]
BigFoot
LAI Comparison
BigFoot vs. MODIS

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest
BigFoot
LUE Comparison
BigFoot vs. MODIS

Year: 2002
Site: HARV (Mass., USA)
Biome: Hardwood Forest

![Graph showing Light Use Efficiency (gC MJ⁻¹) over Day of Year for BigFoot and MODIS.]