

WPVGA
May 2019
Flux Tower Update

Ankur Desai
UW-Madison

US-CS2
Tri-County School Forest



US-CS1
Heartland Farm

Greenwood

9/2013

P-31

Beechnut Ave

Beechnut Dr

W North Lake St

Hancock

Bighorn Ave

KK

V 51

2nd Ave

4th Ave

5th Ave

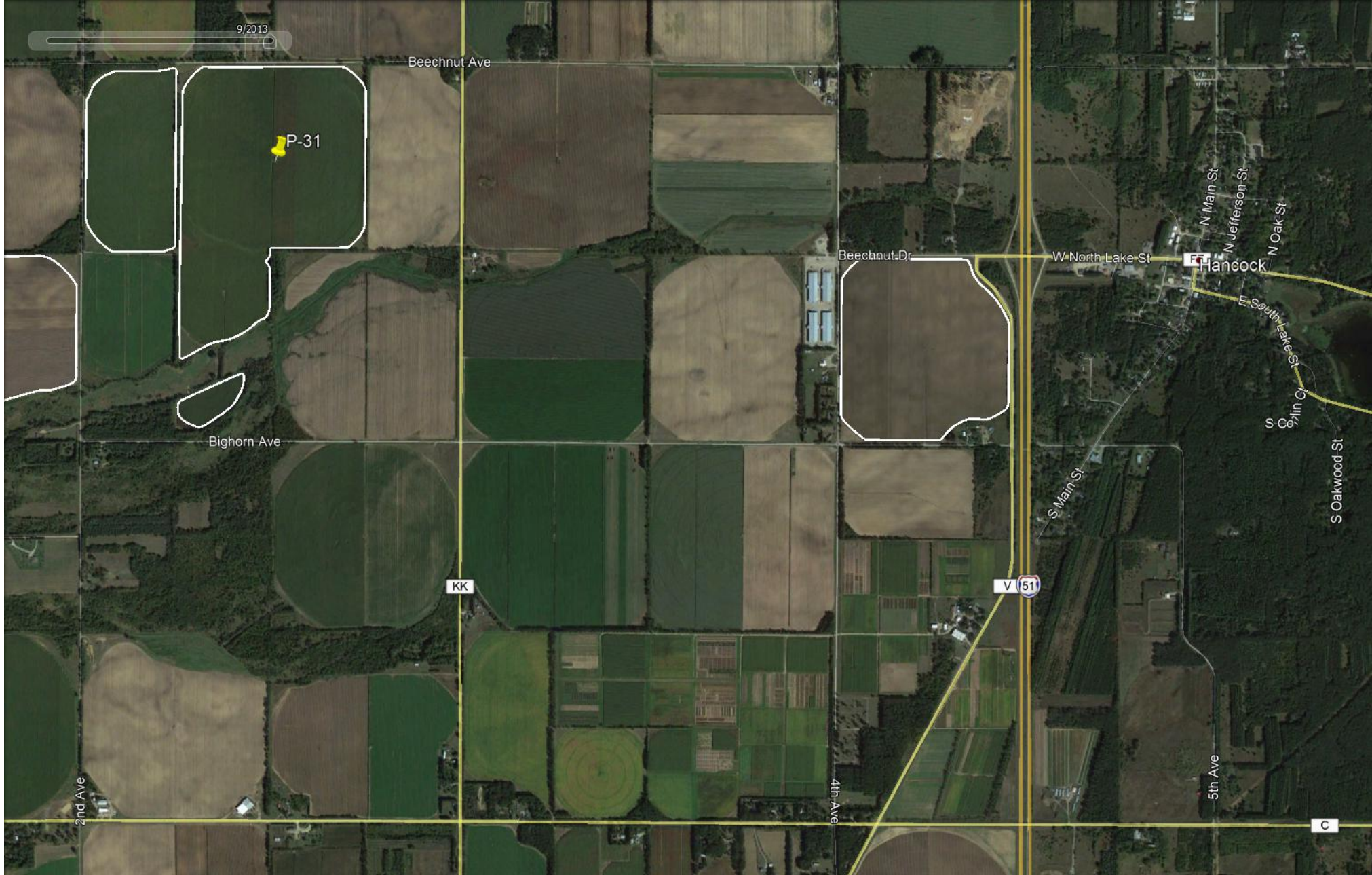
C

N Main St
N Jefferson St
N Oak St

E Southlake St
S C 77th Ln Ct

S Oakwood St

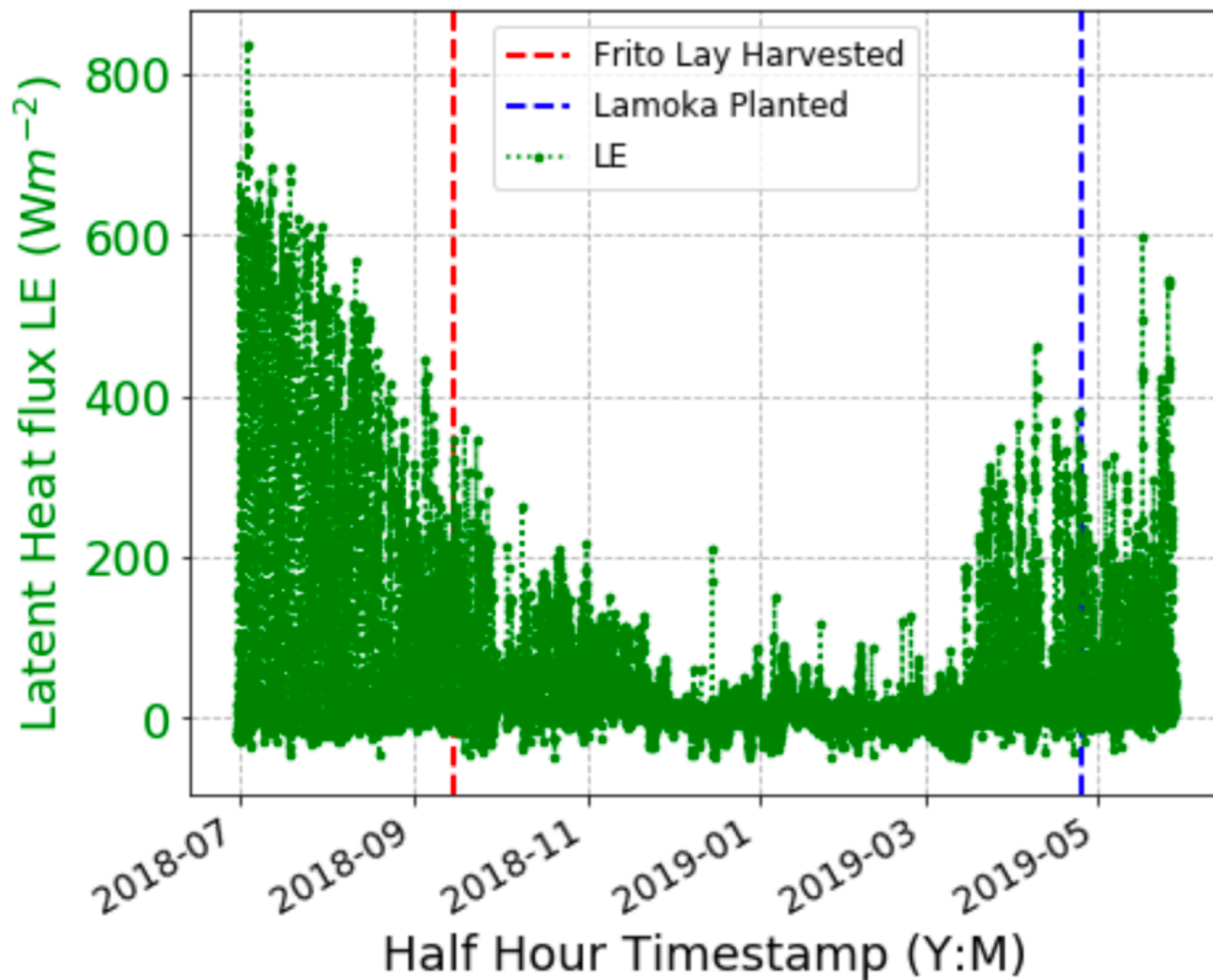
S Main St



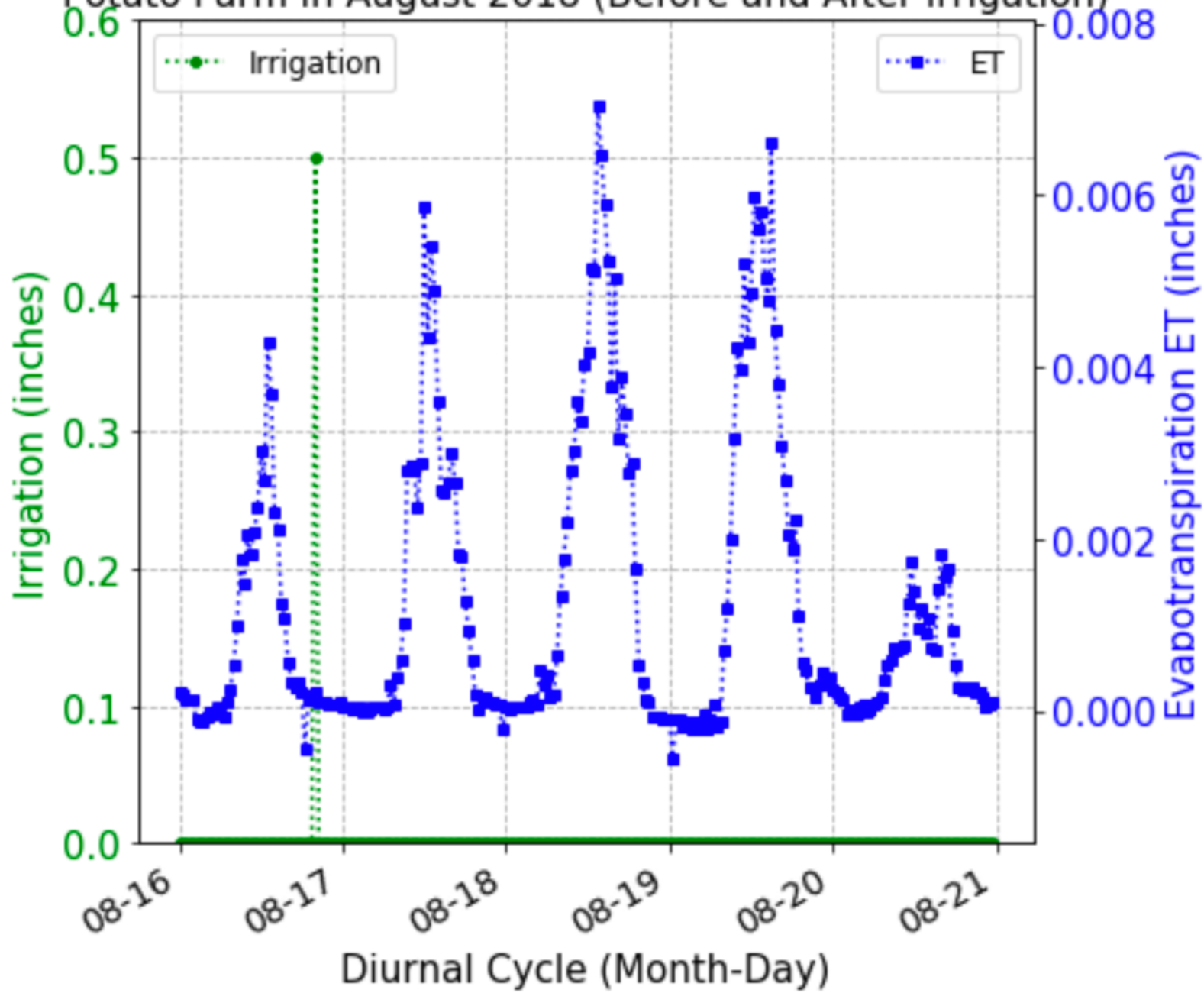


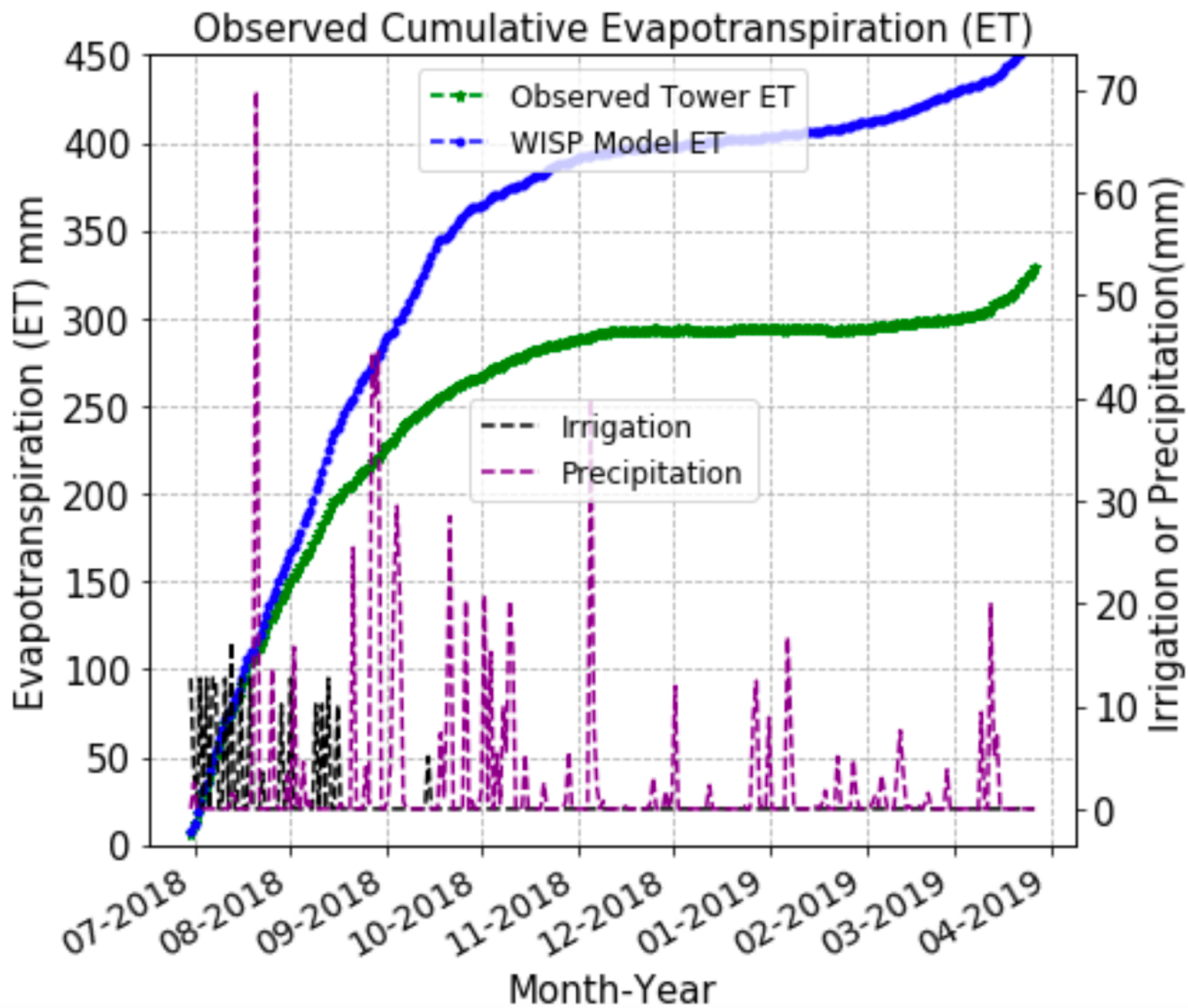


Latent Heat Fluxes in Potatoe Farms

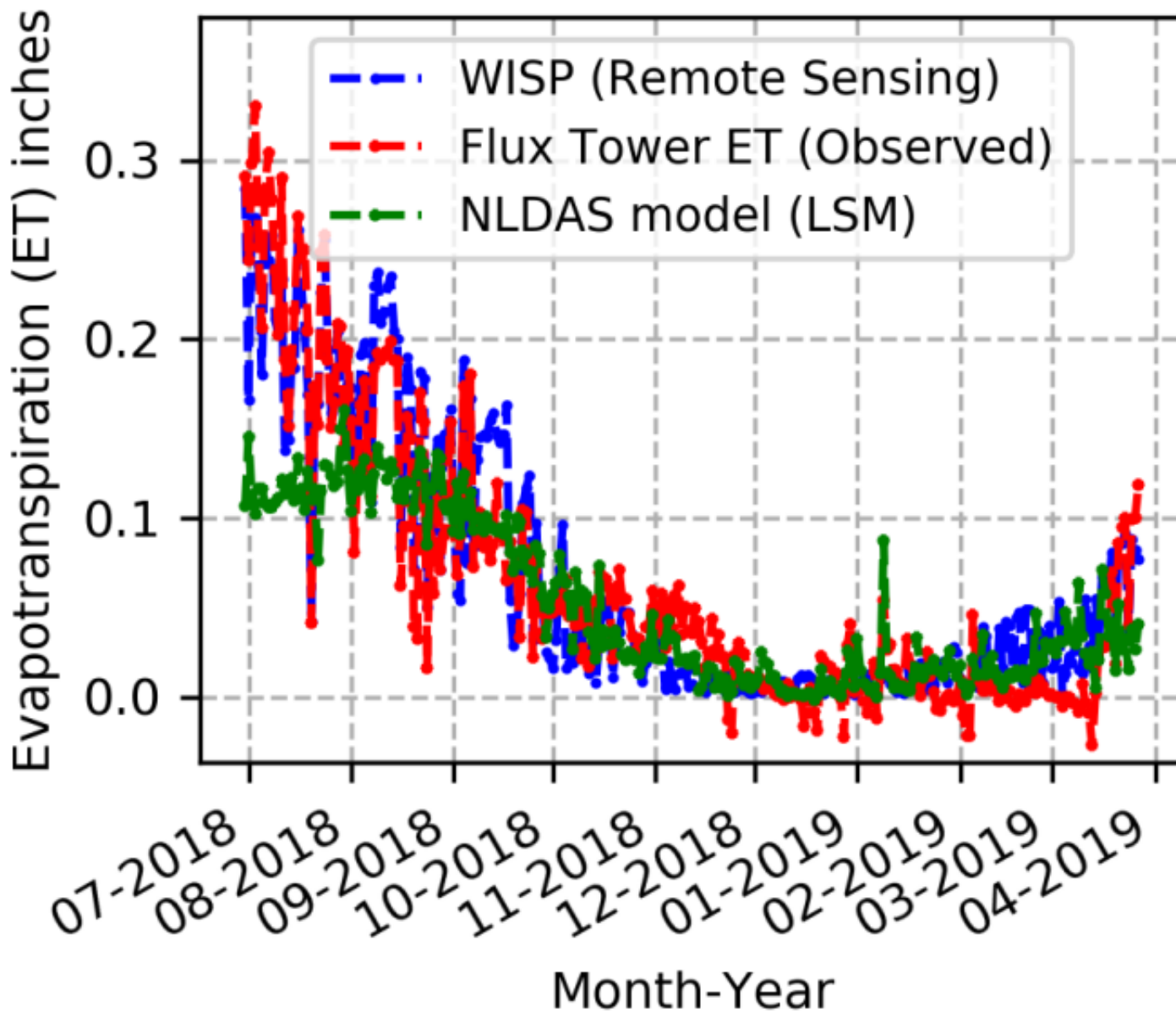


Potato Farm in August 2018 (Before and After Irrigation)

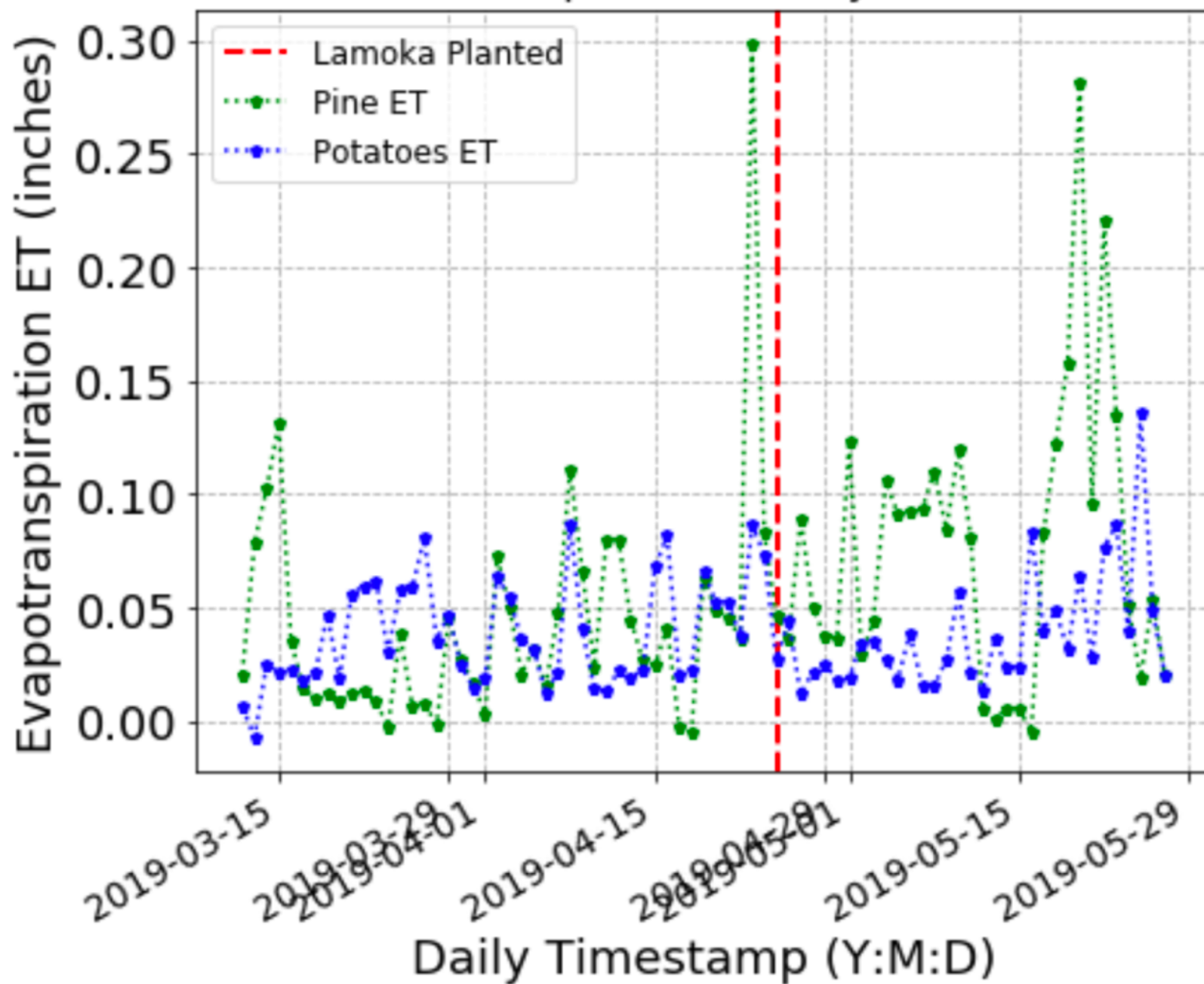




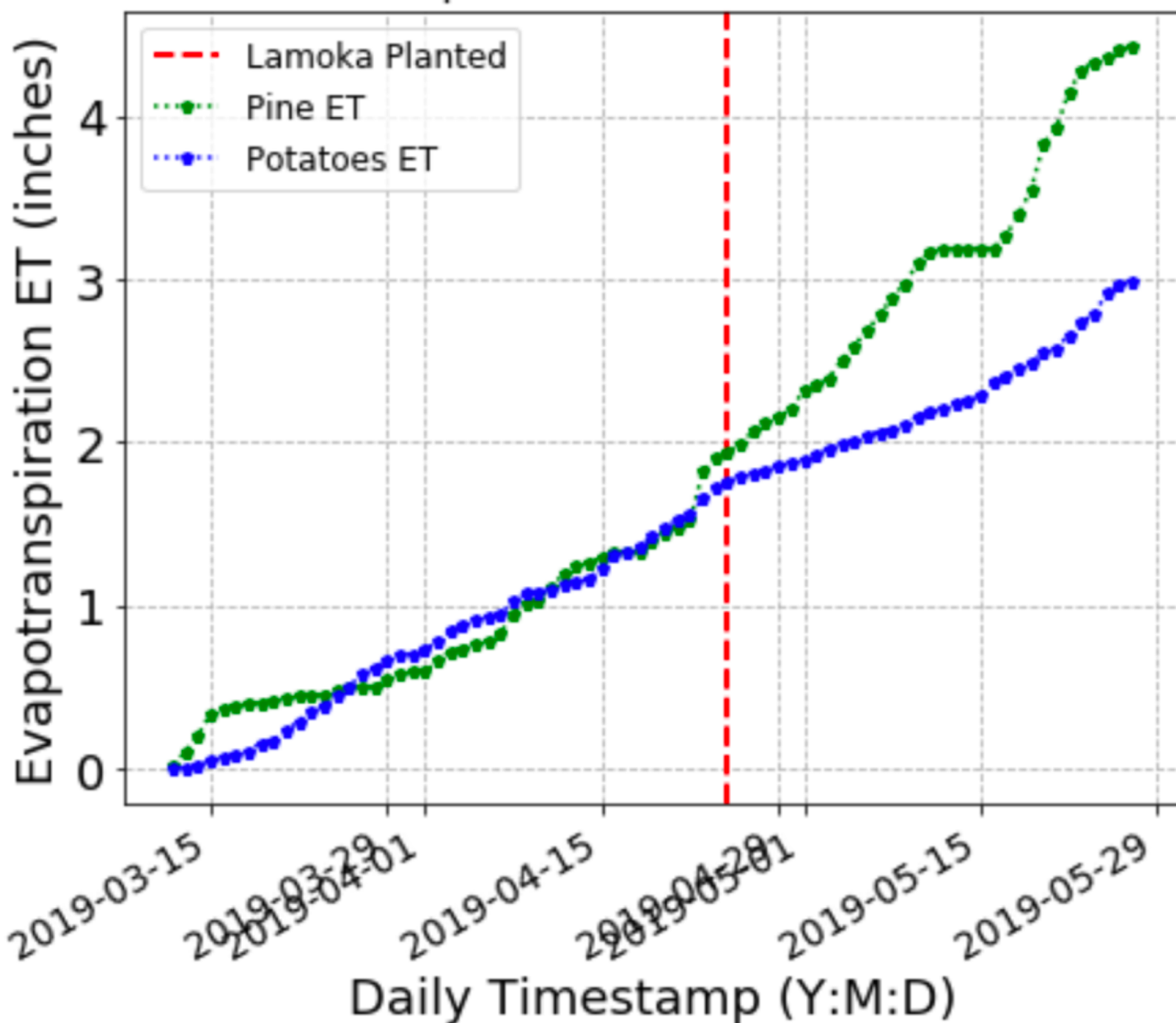
Comparison between Daily Evapotranspiration (ET)

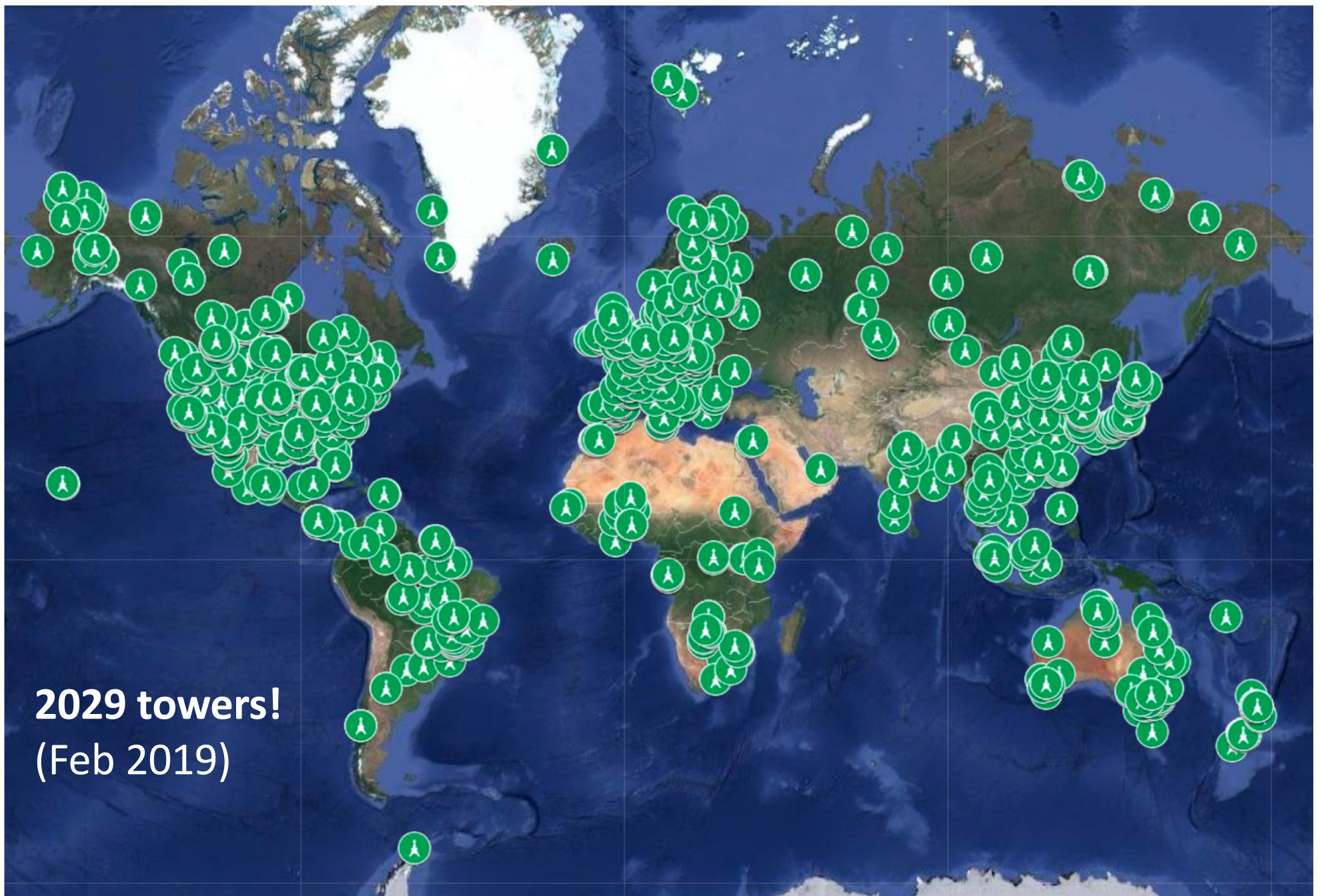


Comparison of Daily ET



Comparison of Cumulative ET



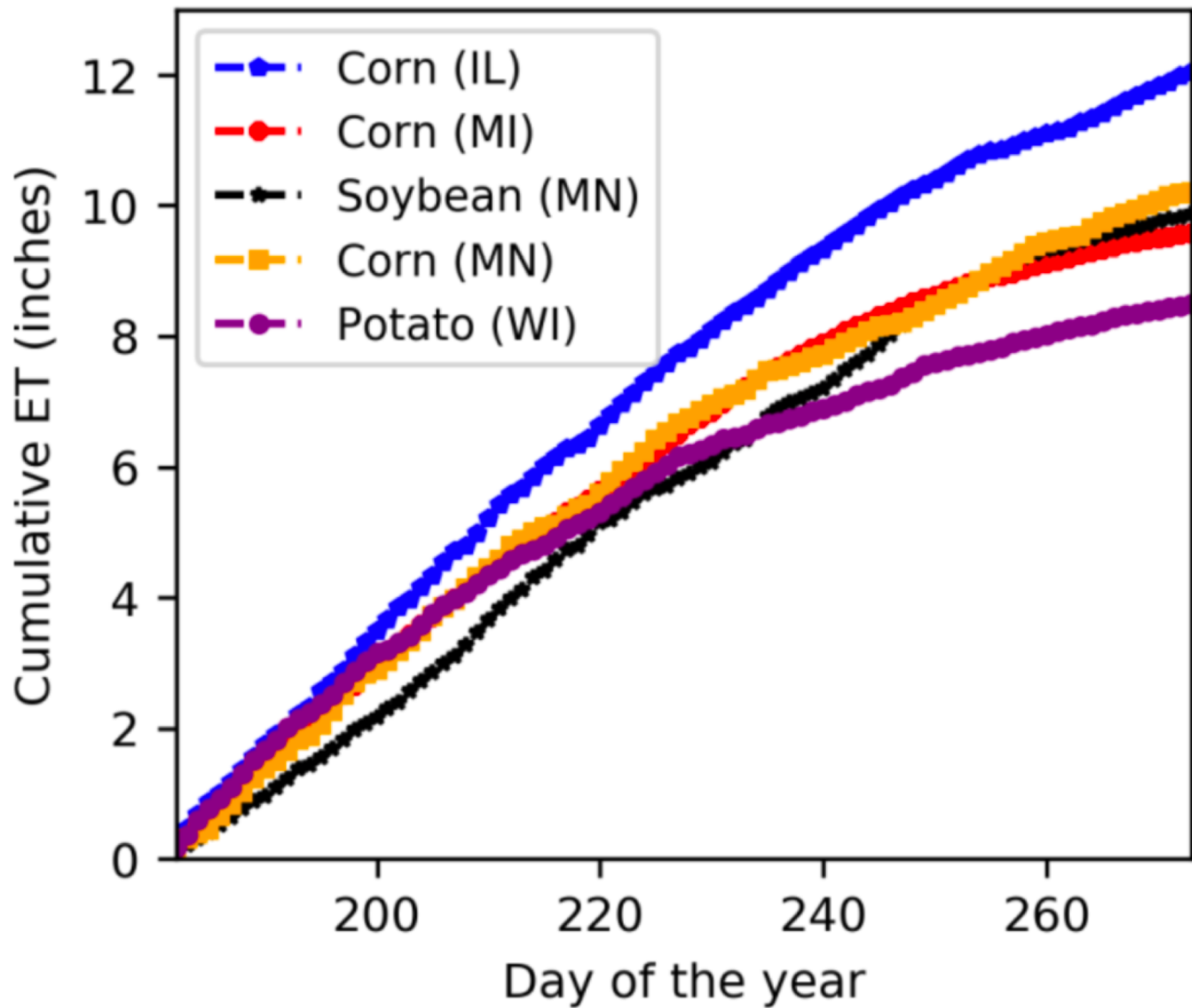


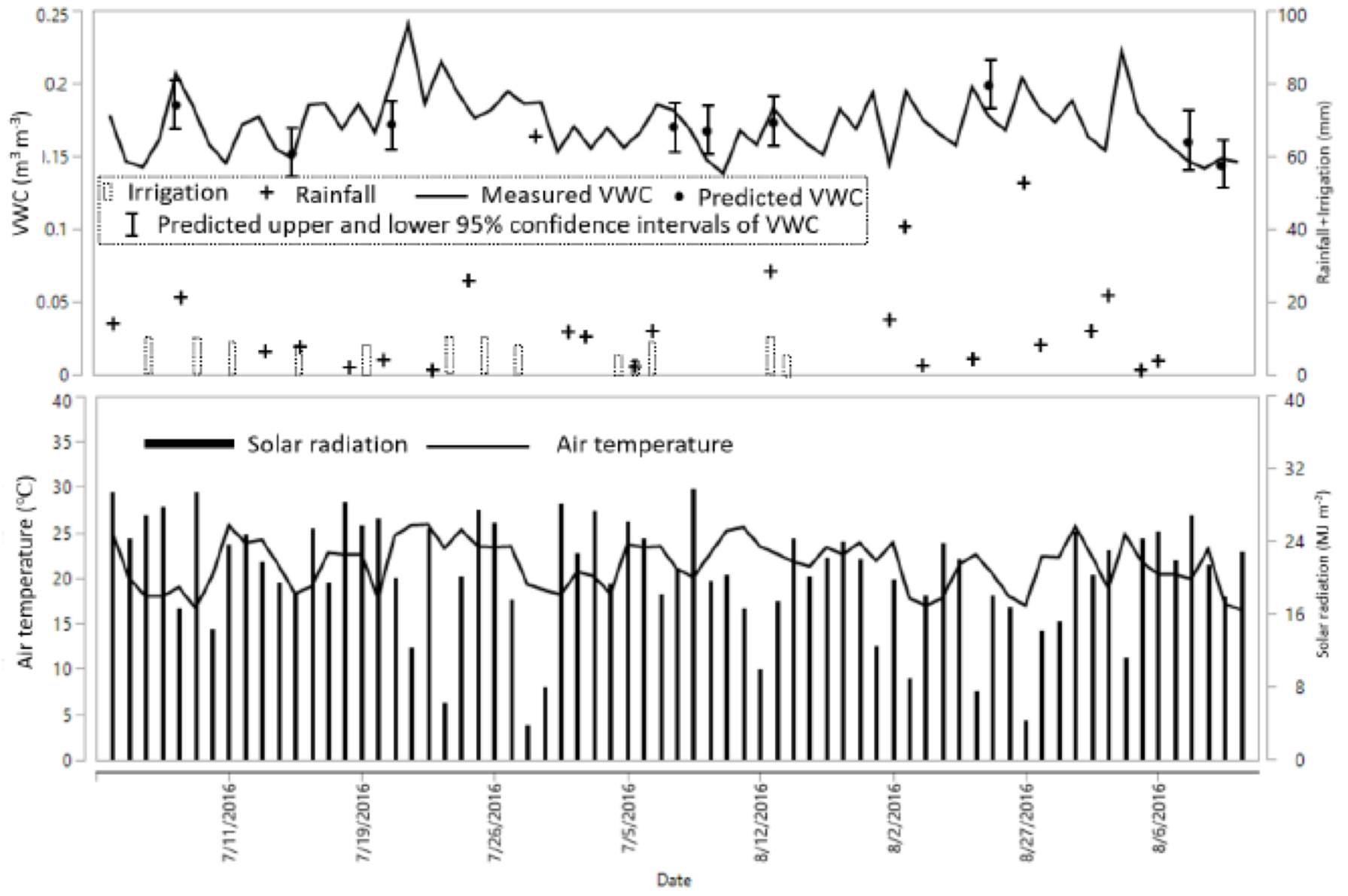
2029 towers!
(Feb 2019)

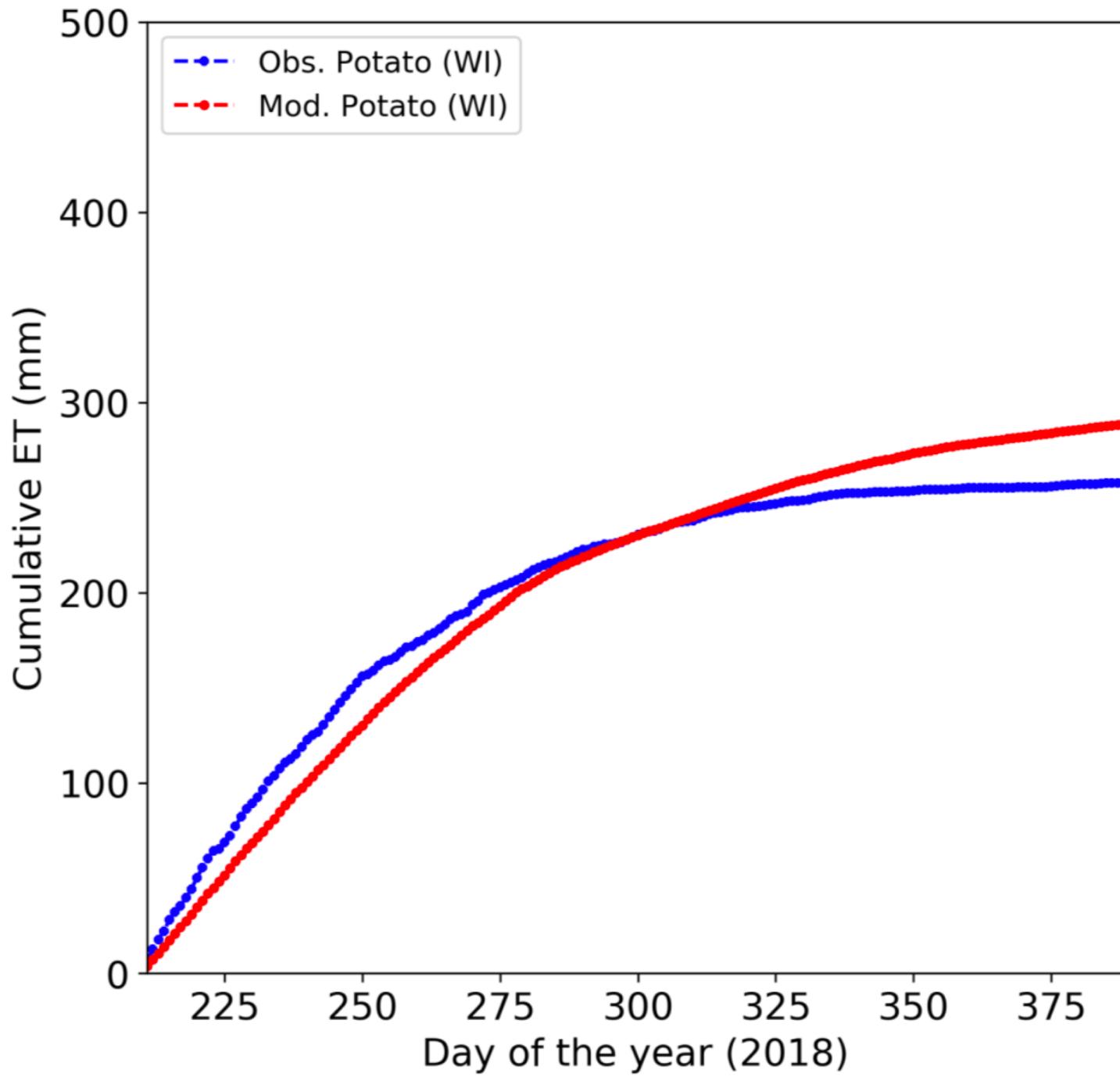
George Burba, doi:10.13140/RG.2.2.25992.67844/1

Ameriflux: The Coalition of the Willing

Novick et al (2018) Agricultural and Forest Meteorology







Other updates and plans

- Recent Badger Common Tater article on measuring ET
- Two NASA proposals submitted to potential enhance project with satellite observations and more support for Ammara's PhD dissertation on irrigation demand forecasting
- Continue run towers for more years, submit data to global database, set up website for real-time views
- New soil moisture, precipitation, and vegetation sensors being installed with Jingyi Huang and Ammara Talib
- New sapflow and groundwater wells to be added to pine site by Dom Ciruzzi and Steve Loheide