

Denní chody fotosyntézy pomocí fluorometrických metod

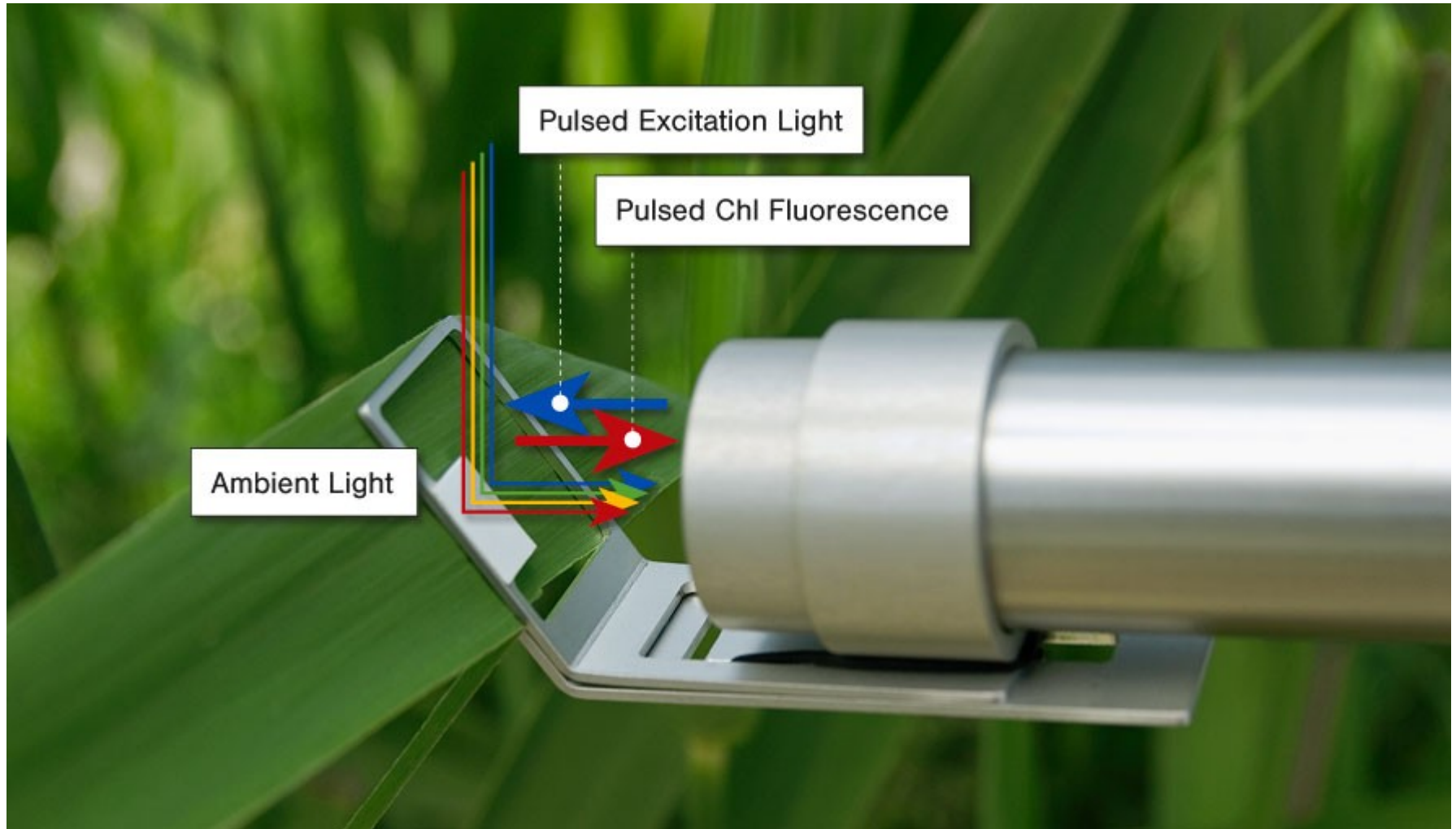
Miloš Barták

Ekofyziologie fotosyntézy
Jaro 2014

Moni_PAM



Základní principy



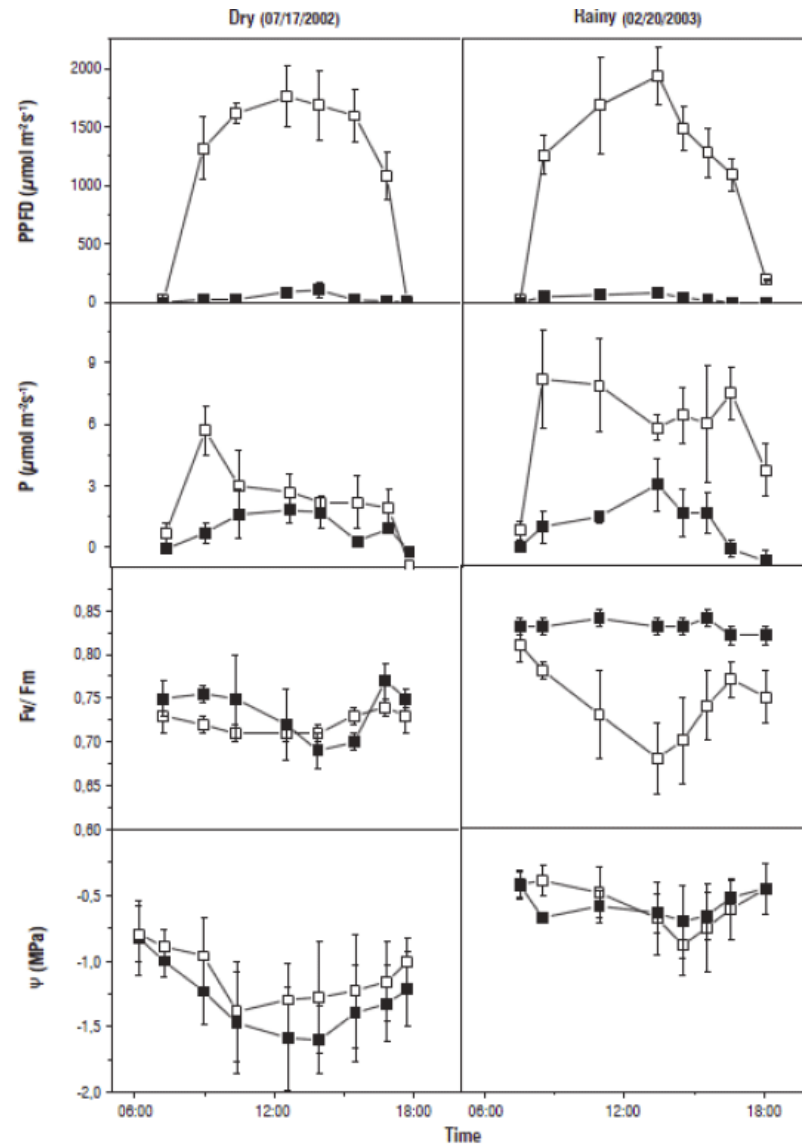
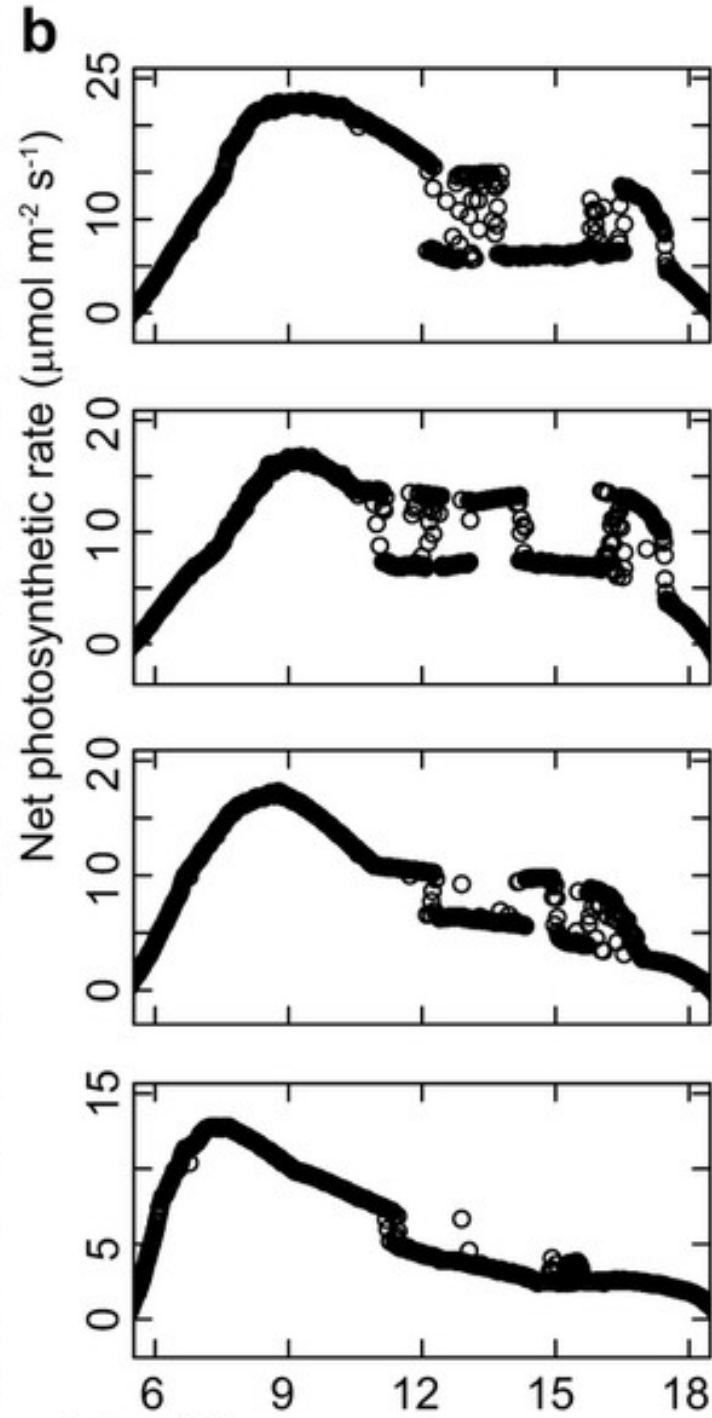
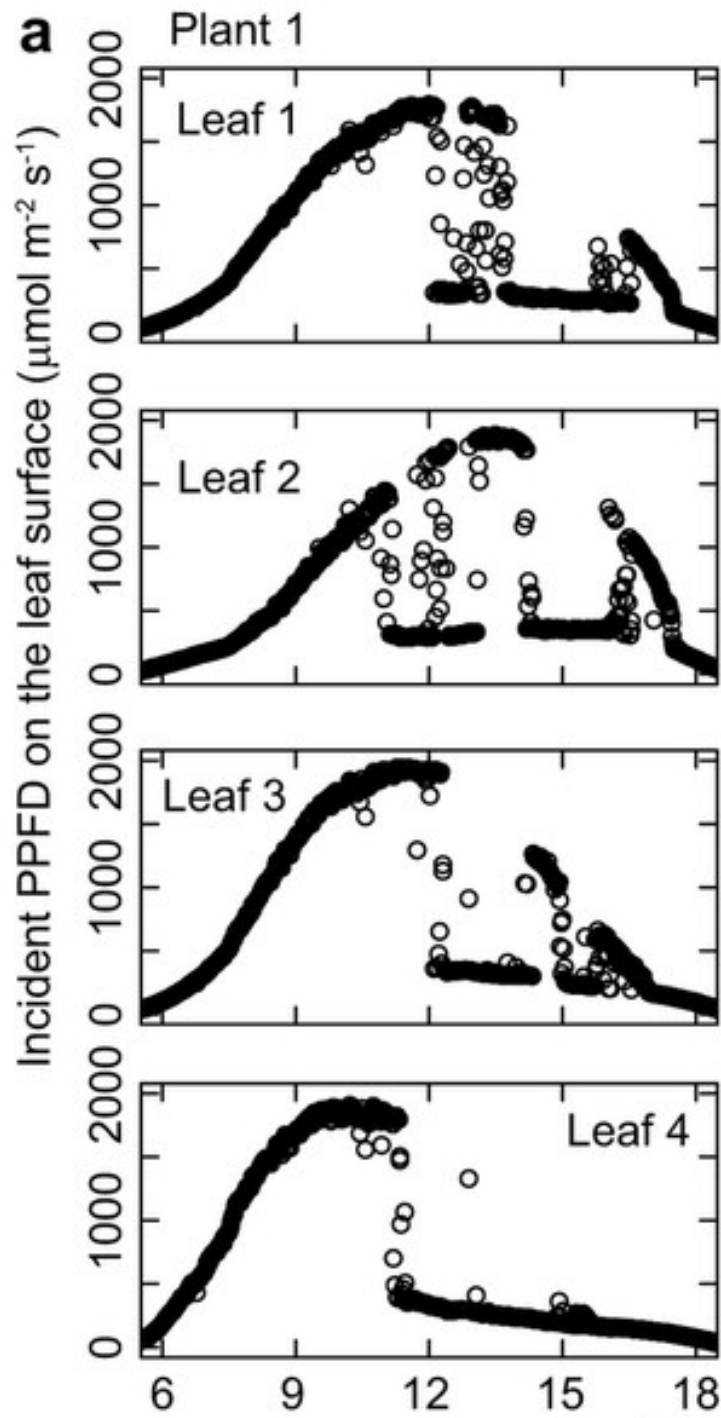
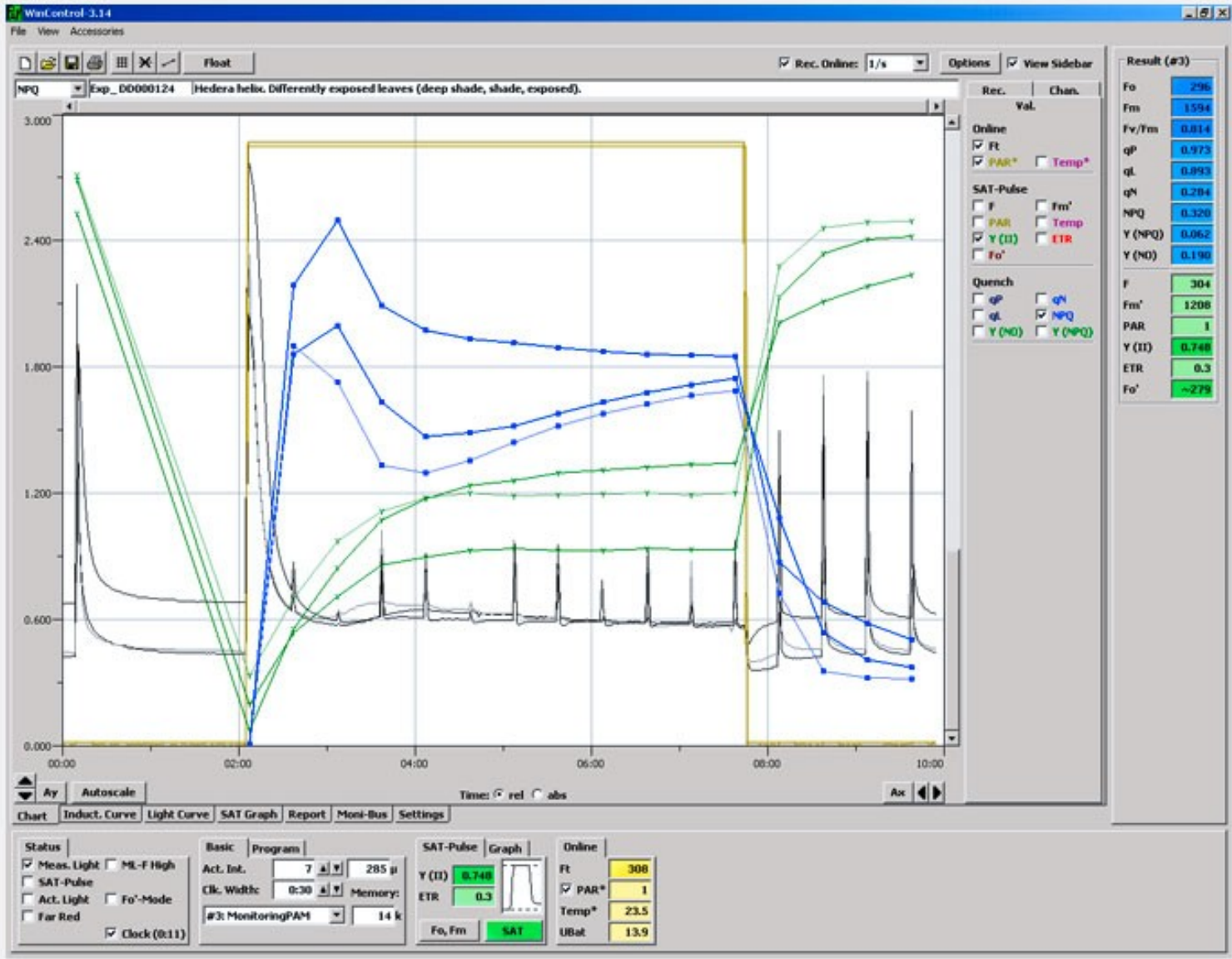


Figure 4. Mean values (symbols) \pm standard deviation (bars) during the daily course of photosynthetic photon flux density (PPFD), net photosynthesis (P), potential photochemical efficiency (Fv/Fm) and water potential (Ψ) obtained on leaflets of young plants of *Copaifera langsdorffii* growing in sunny (open symbols) and shaded (solid symbols) areas during dry and rainy periods.





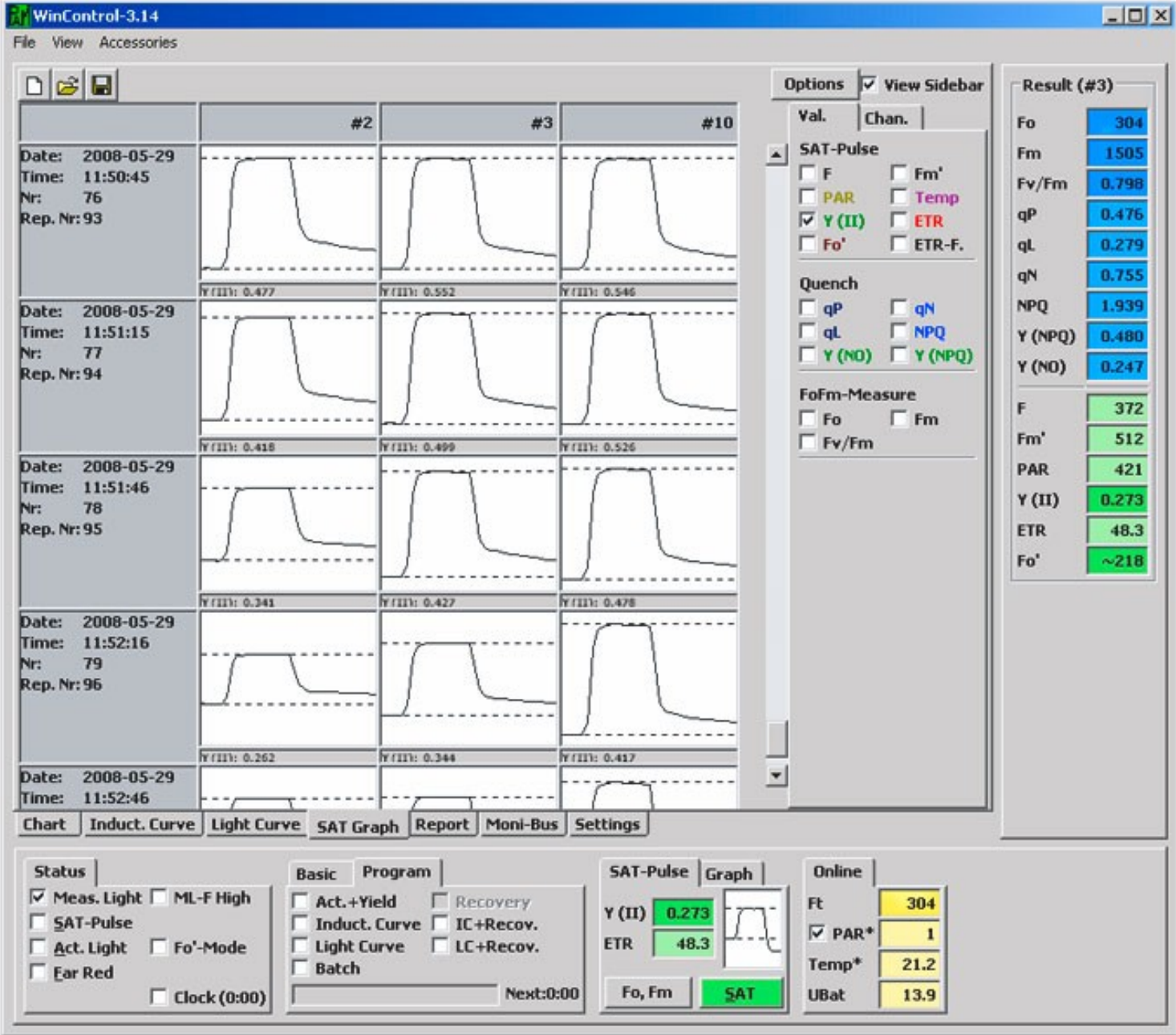


Chart Induct. Curve Light Curve **SAT Graph** Report Moni-Bus Settings

Online

Ft	304
<input checked="" type="checkbox"/> PAR*	1
Temp*	21.2
UBat	13.9

Status

<input checked="" type="checkbox"/> Meas. Light	<input type="checkbox"/> ML-F High
<input type="checkbox"/> SAT-Pulse	
<input type="checkbox"/> Act. Light	<input type="checkbox"/> Fo'-Mode
<input type="checkbox"/> Ear Red	<input type="checkbox"/> Clock (0:00)

Basic Program

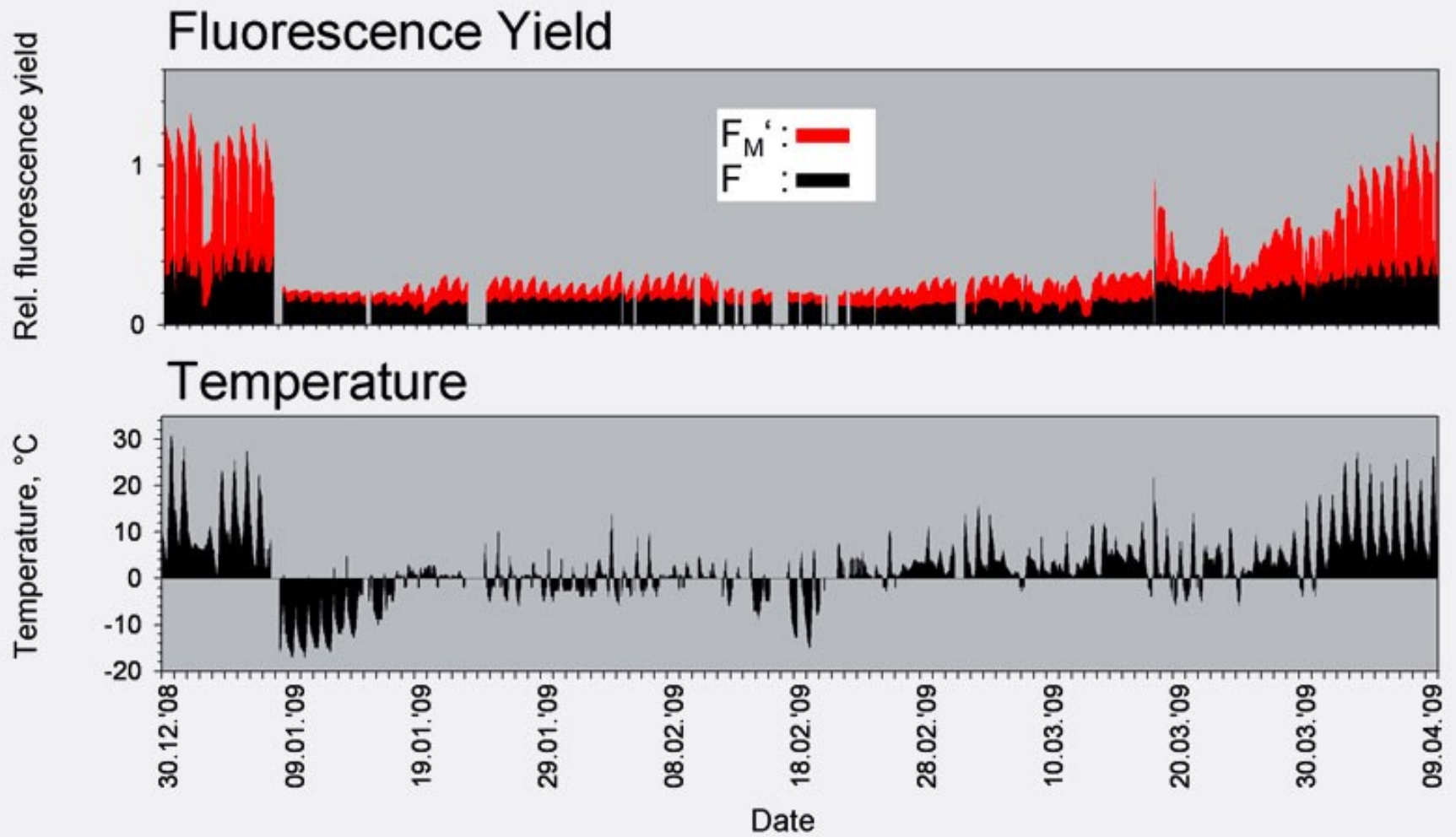
<input type="checkbox"/> Act.+Yield	<input type="checkbox"/> Recovery
<input type="checkbox"/> Induct. Curve	<input type="checkbox"/> IC+Recov.
<input type="checkbox"/> Light Curve	<input type="checkbox"/> LC+Recov.
<input type="checkbox"/> Batch	

Next:0:00

SAT-Pulse Graph

Y (II)	0.273
ETR	48.3

Fo, Fm **SAT**



2012

Barták M, Váczi P, Hájek J:

Photosynthetic activity in three vascular species of Spitsbergen vegetation during summer season in response to microclimate.

Polish Polar Research 33:

443–462

<http://dx.doi.org/...>

2012

Zsom T, Zsom-Muha V, Dénes DL, Ecseki H, Felföldi J:

Novel methods for the monitoring of postharvest changes of different pear cultivars.

In: International Conference of Agricultural Engineering 2012, Valencia, Spain. Conference proceedings. P2069.

<http://cigr.ageng2012.org/...>

2012

García-Plazaola JI, Esteban R, Fernández-Marín B, Kranner I, Porcar-Castell A: Thermal energy dissipation and xanthophyll cycles beyond the *Arabidopsis* model.

Photosynthesis Research 113: 89-103

<http://dx.doi.org/...>

2011

Porcar-Castell A: A high-resolution portrait of the annual dynamics of photochemical and non-photochemical quenching in needles of *Pinus sylvestris*.

Physiologia Plantarum 143:

139–153

<http://dx.doi.org/...>

2011

Chen H, Zheng X, Li J, Zhang J, Xu X:

Response of sugarcane chlorophyll fluorescence parameters and spectral reflectance to water stress in elongation.

In: International Conference on Computer Distributed Control and Intelligent Environmental Monitoring (CDCIEM), 2011, Changsha, Hunan, China.

Conference Proceeding. pp. 981-984

<http://dx.doi.org/...>

2011

Wan G, Najeeb U, Jilani G, Naeem M, Zhou W: Calcium invigorates the cadmium-stressed *Brassica napus* L. plants by strengthening their photosynthetic system.

Environmental Science and Pollution Research 18:1478-1486

<http://dx.doi.org/...>

2010

Drolet G, Nichol CJ, Wade TJ, Porcar-Castell A, Nikinmaa E, Middleton E, Ong L, Vesala T, Levula J, Moncrieff JB: Spatial and temporal patterns of solar-induced chlorophyll fluorescence from a Finnish boreal landscape:

2008

Porcar-Castell A, Pfündel E, Korhonen JFJ, Juurola E: A new monitoring PAM fluorometer (MONI-PAM) to study the short- and long-term acclimation of photosystem II in field conditions.

2008

Hitka G, Balla C, Fodor P, Gyepes A, Csobánczi A, Timea S: New methods to determine the level of low oxygen limit.

Postharvest Unlimited 2008. Berlin - Germany - November 4 -7, 2008