Supplementary Table I A comparison of terminology for chlorophyll fluorescence parameters.

Maxwell and Johnson	Baker; Litthauer et al.	Walz	Photon Systems Instruments	**This paper**	Formula	Description
F_0	F_0	F_0	F_0	$\boldsymbol{F_0}$	Measured	Minimum F when Q_A is oxidized and there is no non-photochemical quenching
F_m	F_m	F_m	F_m	$\boldsymbol{F_m}$	Measured	Maximum F when Q_A is reduced and there is no non-photochemical quenching
F_v	F_v	F_v	F_v	$\boldsymbol{F_v}$	F_m- F_0	F during transition from dark state with open reaction centers to light state with closed reaction centers
F_v/F_m	F_v/F_m	F_v/F_m	QY^{Max}	$\boldsymbol{F_v/F_m}$	F_v/F_m	Maximum PSII quantum yield after dark adaptation
-	-	_	F_p	$\boldsymbol{F_p}$	Measured	Peak of F after transfer to actinic light when there is photochemical and non-photochemical quenching
F_t	F_t	F	F_t^{Lss}	$\boldsymbol{F'}$	Measured	Steady state F after adaptation to actinic light
F_m'	F_m'	F_m'	F_m^{Lss}	$\boldsymbol{F_m'}$	Measured	Maximum F after adaptation to actinic light when there is non-photochemical quenching
F_0'	F_0'	F_0'	F_0^{Lss}	$\boldsymbol{F_0'}$	Measured	Steady state minimum F immediately after transfer to dark following adaptation to actinic light
-	Fq'	-	-	-	F_m'-F'	Photochemical quenching of fluorescence by

						open PSII centers
qP	*Fq'/Fv'*	*qP*	qP^{Lss}	$\boldsymbol{F_q'/F_v'}$	(F_m'- F')/(F_m'- F_0')	Fraction of open PSII reaction centers
-	-	*qL*	_	_	*qP* x (F_0'/Ft')	Coefficient of photochemical quenching assuming interconnected PSII antennae
-	-	_	Rfd^{Lss}	***Rfd'***	(F_p- F')/(F')	Empiric parameter for plant vitality
NPQ	*NPQ*	*NPQ*	*NPQ*	***NPQ'***	(F_{m-} F_m')/(F_m')	Steady state non-photochemical quenching in actinic light
-	-	*Y(II)*	QY^{Lss}	***QY'***	(F_m'- F')/(F_m')	steady-state PSII quantum yield in light

In the literature (') or (light-steady-state, Lss) represent a consecutive measurement made in actinic light. In this paper (') refers to the fifth measurement (Figure 1) made in actinic light. Maxwell & Johnson (Maxwell and Johnson 2000); Baker (Baker 2008); Littauer et al. (Litthauer et al. 2015); Walz Chlorophyll Fluroscence PAM (Bavaria, Germany); Photon Systems Instruments (Brno, Czech Republic).