Name of parameter	Symbol	Unit	Notes
Rate of photosynthesis	p	$\mu mol\, CO_2\, m^{-2}\, s^{-1}$	
Rate of transpiration	E	$mmol\, H_2O\, m^{-2}\, s^{-1}$	
Photosynthetically active irradiation	I	$\mu mol\, photons\, m^{-2}\, s^{-1}$	
Efficiency of photosynthesis	b	$\mu mol\, g\, m^{-2}\, s^{-1}$	
Stomatal conductance when stomata are fully open	g_{max}	$mmol\, H_2O\, m^{-2}\, s^{-1}$	
Optimal degree of stomatal opening	u_{opt}	unitless	
CO_2 concentration in ambient air	C_a	$g\, m^{-3}$	
Rate of respiration	r	$\mu mol\, CO_2\, m^{-2}\, s^{-1}$	
Temperature	T	K	
State of the photosynthetic machinery	S	unitless	
Parameters describing the annual cycle of photosynthesis, estimated using numeric methods (see Hari et al., 2017)	$a_1 \ldots a_4$		$a_1 = 10; a_2 = 0.065$ $a_3 = 2; a_4 = 1.15 \times 10^{-7}$