

| Experimental setup | | | | | | | Phytolith samples | | | | Leaf water–irrigation water (LW–IW) | | | | Phytolith–leaf water (Phyto-LW) | | | | Phytolith–irrigation water (Phyto-IW) | | | | | |
|--------------------|----------|-----|-------|-----|--|------------------------|-------------------|-----------------|--|----------|-------------------------------------|-----------------------|-----------------------|--------------------------------------|---------------------------------|-----------------------|-----------------------|--------------------------------------|---------------------------------------|-----------------------|-----------------------|--------------------------------------|----------|--|
| d. | <i>T</i> | SD | RH | SD | Light | Transp. | Biomass | | | C. | LC | $\Delta^{18}\text{O}$ | $\Delta^{17}\text{O}$ | ^{17}O -excess _e | θ | $\Delta^{18}\text{O}$ | $\Delta^{17}\text{O}$ | ^{17}O -excess _e | θ | $\Delta^{18}\text{O}$ | $\Delta^{17}\text{O}$ | ^{17}O -excess _e | θ | |
| (day) | (°C) | | (%) | | (mmol m ⁻² s ⁻¹) | (l day ⁻¹) | (g) | | | (% d.w.) | (%) | (‰) | (‰) | (per meg) | | (‰) | (‰) | (per meg) | | (‰) | (‰) | (per meg) | | |
| 11 | 25 | 0.2 | 41.2 | 1 | 278 | | 13 | P1-40-29-04-16 | | n.v. | | 16.238 | 8.420 | −154 | 0.519 | 33.776 | 17.589 | −244 | 0.521 | 50.013 | 26.009 | −398 | 0.520 | |
| 10 | 25 | 0.2 | 41.3 | 1.1 | 278 | 0.49 | 21 | P10-40-10-05-16 | | 0.8 | | 13.171 | 6.799 | −155 | 0.516 | 33.530 | 17.498 | −206 | 0.522 | 46.701 | 24.297 | −361 | 0.520 | |
| 11 | 25 | 0.4 | 41.9 | 1 | 311 | 0.69 | 37 | P1-40-20-05-16 | | 0.8 | 21 | 16.345 | 8.460 | −170 | 0.518 | 29.577 | 15.401 | −216 | 0.521 | 45.922 | 23.861 | −385 | 0.520 | |
| 14 | 25 | 0.2 | 41.4 | 0.9 | 278 | 0.65 | 38 | P1-40-03-06-16 | | 1.8 | | n.v. | n.v. | n.v. | n.v. | 32.415 | 16.874 | −241 | 0.521 | n.v. | n.v. | n.v. | n.v. | |
| | | | | | Av. | 0.61 | | | | 1.2 | | 15.251 | 7.893 | −159 | 0.517 | 32.324 | 16.840 | −227 | 0.521 | 47.545 | 24.723 | −381 | 0.520 | |
| | | | | | SD | 0.11 | | | | 0.6 | | 1.802 | 0.947 | 9 | 0.001 | 1.925 | 1.011 | 19 | 0.0006 | 2.172 | 1.135 | 19 | 0.0003 | |
| 11 | 25 | 0.5 | 60.2 | 2.5 | 311 | | 21 | P10-60-29-04-16 | | n.v. | | 15.115 | 7.864 | −117 | 0.520 | 29.133 | 15.211 | −171 | 0.522 | 44.248 | 23.075 | −288 | 0.521 | |
| 11 | 25 | 0.2 | 60.5 | 1 | 289 | 0.57 | 33 | P2-60-10-05-16 | | 0.7 | | 16.885 | 8.737 | −178 | 0.517 | 25.877 | 13.575 | −88 | 0.525 | 42.761 | 22.312 | −266 | 0.522 | |
| 10 | 25 | 0.8 | 60.2 | 4.8 | 311 | 0.60 | 48 | P10-60-20-05-16 | | 0.8 | 13 | 12.014 | 6.242 | −101 | 0.520 | 30.254 | 15.804 | −170 | 0.522 | 42.268 | 22.047 | −271 | 0.522 | |
| 14 | 25 | 0.6 | 60.3 | 3.2 | 311 | 0.76 | 60 | P10-60-03-06-16 | | 1.3 | | n.v. | n.v. | n.v. | n.v. | 32.915 | 17.186 | −193 | 0.522 | n.v. | n.v. | n.v. | n.v. | |
| | | | | | Av. | 0.64 | | | | 0.9 | | 14.671 | 7.614 | −132 | 0.519 | 29.545 | 15.444 | −156 | 0.523 | 43.093 | 22.478 | −275 | 0.522 | |
| | | | | | SD | 0.10 | | | | 0.3 | | 2.465 | 1.266 | 41 | 0.001 | 2.915 | 1.496 | 46 | 0.0012 | 1.031 | 0.534 | 11 | 0.0001 | |
| 11 | 25 | 0.2 | 80.2 | 2.8 | 289 | n.v. | 24 | P2-85-29-04-16 | | n.v. | | 7.826 | 4.067 | −65 | 0.520 | 28.039 | 14.668 | −136 | 0.523 | 35.865 | 18.736 | −201 | 0.522 | |
| 10 | 25 | 0.2 | 81.5 | 1.3 | 289 | 0.28 | 27 | P1-85-10-05-16 | | 0.4 | | 7.957 | 4.139 | −62 | 0.520 | 28.276 | 14.783 | −147 | 0.523 | 36.233 | 18.922 | −209 | 0.522 | |
| 11 | 25 | 0.2 | 76.6 | 2.5 | 278 | 0.22 | 27 | P2-85-20-05-16 | | 0.6 | 10 | 6.679 | 3.429 | −97 | 0.513 | 28.668 | 14.993 | −144 | 0.523 | 35.347 | 18.422 | −241 | 0.521 | |
| 14 | 25 | 0.2 | 82.5 | 1.1 | 289 | 0.36 | 37 | P2-85-03-06-16 | | 1.0 | | n.v. | n.v. | n.v. | n.v. | 28.888 | 15.041 | −212 | 0.521 | n.v. | n.v. | n.v. | n.v. | |
| | | | | | Av. | 0.29 | | | | 0.7 | | 7.487 | 3.879 | −75 | 0.518 | 28.468 | 14.871 | −160 | 0.522 | 35.815 | 18.694 | −217 | 0.522 | |
| | | | | | SD | 0.07 | | | | 0.3 | | 0.703 | 0.391 | 20 | 0.004 | 0.382 | 0.176 | 35 | 0.0012 | 0.445 | 0.253 | 21 | 0.0007 | |
| 11 | 25 | | 100.0 | | 307 | 0.03 | 31 | P3-100-10-05-16 | | 0.0 | | 14.681 | 7.630 | −122 | 0.520 | 21.325 | 11.170 | −90 | 0.524 | 36.006 | 18.800 | −212 | 0.522 | |
| 10 | 25 | | 100.0 | | 307 | 0.01 | | P3-100-20-05-16 | | 0.0 | 5 | 7.706 | 4.014 | −54 | 0.521 | 27.344 | 14.284 | −153 | 0.522 | 35.050 | 18.299 | −208 | 0.522 | |
| 14 | 25 | | 100.0 | | 307 | 0.05 | 21 | P3-100-03-06-16 | | 0.2 | | n.v. | n.v. | n.v. | n.v. | 35.233 | 18.403 | −200 | 0.522 | n.v. | n.v. | n.v. | n.v. | |
| | | | | | Av. | 0.03 | | | | 0.1 | | 11.194 | 5.822 | −88 | 0.520 | 27.968 | 14.619 | −148 | 0.523 | 35.528 | 18.549 | −210 | 0.522 | |
| | | | | | SD | 0.02 | | | | 0.1 | | 4.932 | 2.557 | 48 | 0.001 | 6.975 | 3.628 | 55 | 0.0008 | 0.676 | 0.354 | 3 | 0.0000 | |
| | | | | | | | | Av.* | | | | | | | 0.519 | | | | 0.522 | | | | | |
| | | | | | | | | SD* | | | | | | 0.002 | | | | 0.001 | | | | | | |
| | | | | | | | | | | | | $\lambda = 0.518$ | | | | | | | | | $\lambda = 0.515$ | | | |