**Table S1**. Almond in shell and kernel production (kg tree$^{-1}$) of almond cultivars under organic (O) and conventional (C) management in 2020 and 2021 seasons.

| Cultivar | 2020 | | | | 2021 | | | |
|---|---|---|---|---|---|---|---|---|
| | Almond in shell production | | Kernel production | | Almond in shell production | | Kernel production | |
| | O | C | O | C | O | C | O | C |
| Guara | 2.02$^{b}$ | 8.40$^{b}$* | 0.65$^{b}$ | 2.68$^{b}$* | 7.93$^{a}$ | 12.12$^{a}$* | 2.66$^{a}$ | 4.41$^{a}$* |
| Marcona | 0.61$^{c}$ | 2.95$^{c}$* | 0.19$^{c}$ | 0.93$^{c}$* | 2.80$^{a}$ | 6.93$^{a}$* | 0.69$^{b}$ | 2.19$^{b}$* |
| Lauranne | 3.87$^{a}$ | 10.69$^{b}$* | 1.18$^{a}$ | 3.01$^{b}$* | 9.89$^{b}$ | 12.67$^{a}$ | 2.97$^{a}$ | 3.93$^{a}$ |
| Marta | 3.26$^{a}$ | 15.92$^{a}$* | 1.03$^{a}$ | 4.07$^{a}$* | 3.04$^{a}$ | 10.03$^{a}$* | 0.91$^{b}$ | 2.61$^{b}$* |
| Mean | 2.44 | 9.49 | 0.76 | 2.67 | 5.91 | 10.44 | 1.81 | 3.28 |
| Ratio O/C | 0.26 | | 0.28 | | 0.57 | | 0.55 | |

Data are average of 32 trees (4 trees per repetition, and 8 repetitions) for each cultivar. The asterisk indicates the existence of significant differences between both types of management, and different letters indicate the existence of significant differences among cultivars, $p \leq 0.05$.

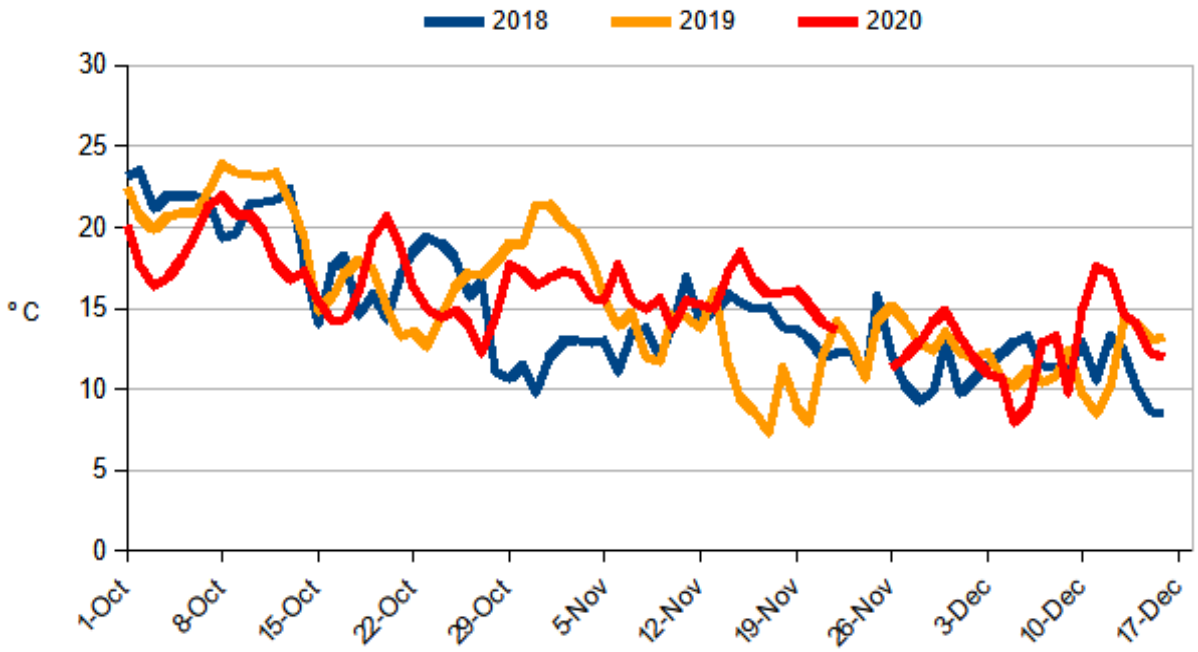


**Figure S1.** Daily mean temperature in the experimental location from 1st October to 18 December in 2018, 2019 and 2020