Supplementary materials

Table S1

Profile of soil physicochemical properties. *n* is sample size at each depth.

Depth (cm)	Bulk density ($Mg\ m^{-3}$)	Total C (%)	Total N (%)	C:N ratio
n	6	3	3	3
0–10	0.16 ± 0.04	51.5 ± 0.1	2.0 ± 0.00	25.8
10–20	0.11 ± 0.01	52.6 ± 0.1	1.8 ± 0.01	29.2
20–30	0.11 ± 0.01	52.6 ± 0.0	1.9 ± 0.01	27.7
30–40	0.12 ± 0.01	53.0 ± 0.2	1.7 ± 0.01	31.2
40–50	0.10 ± 0.01	53.2 ± 0.3	1.7 ± 0.04	31.3
50–60	0.10 ± 0.01	54.0 ± 0.1	1.6 ± 0.00	33.8
Mean	0.12 ± 0.02	52.8 ± 0.8	1.8 ± 0.13	29.3

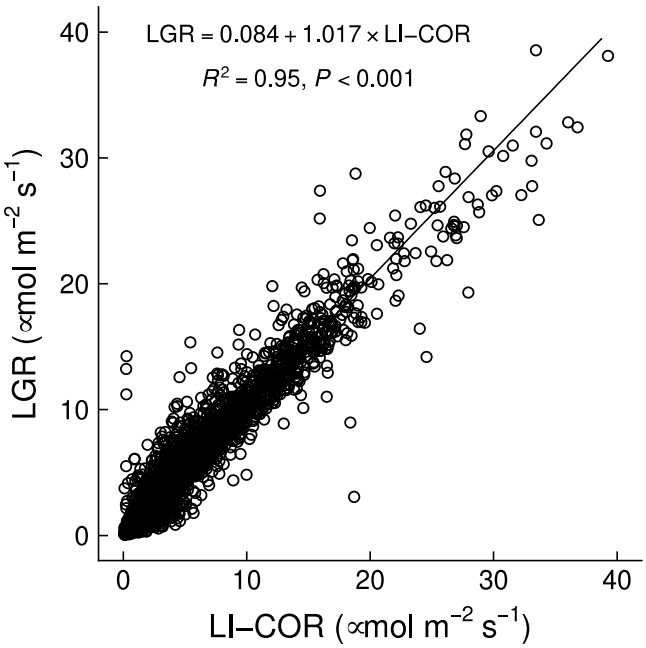

Fig. S1

Comparison of soil CO_2 flux between LI-COR's and LGR's CO_2 analyzer

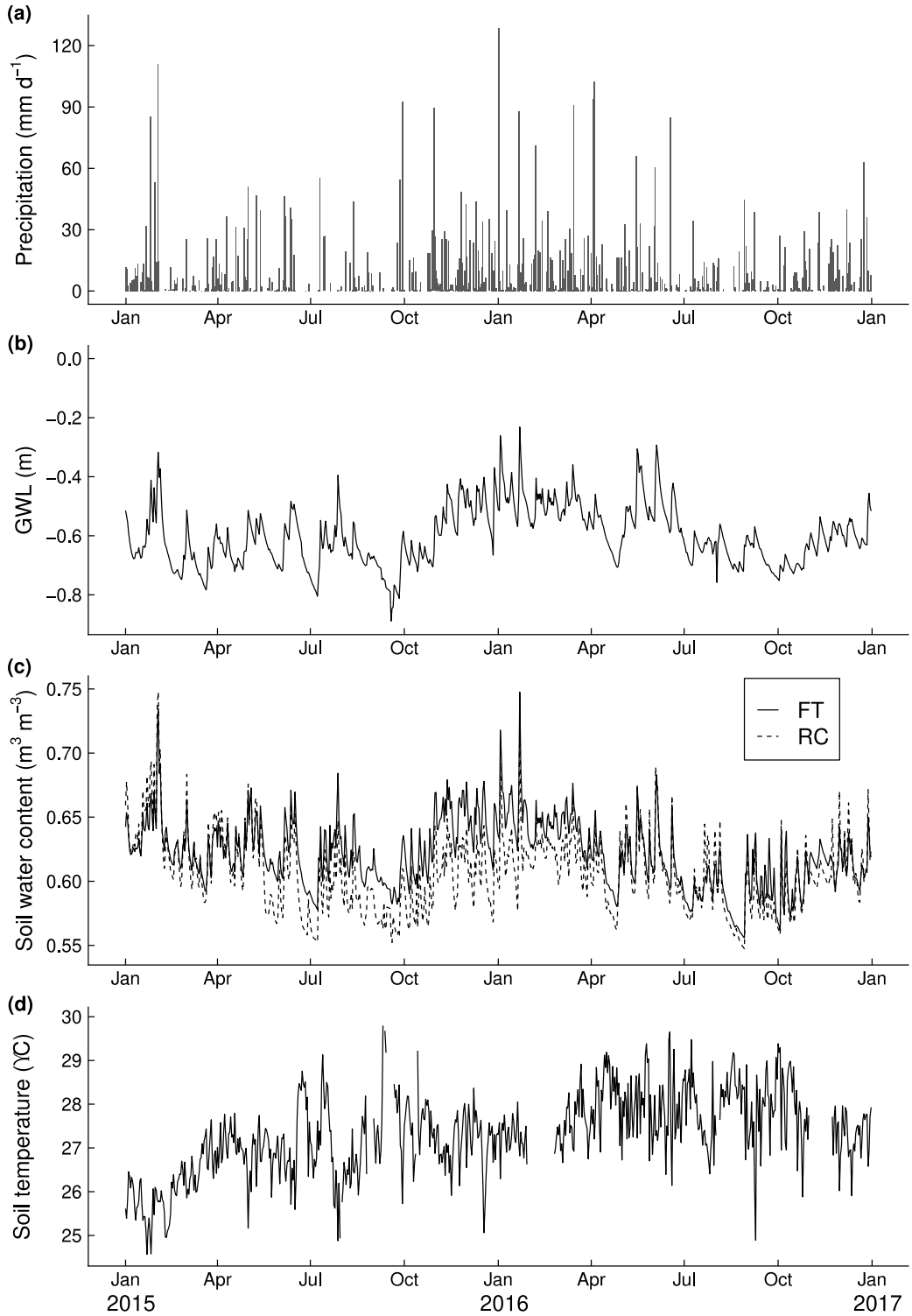

Fig. S2

Seasonal change of (a) daily precipitation, (b) daily mean groundwater level (GWL), (c) daily mean soil water content, and (d) daily mean soil temperature. FT and RC in soil water content represent far-from-tree (> 3 m) and root-cut, respectively.

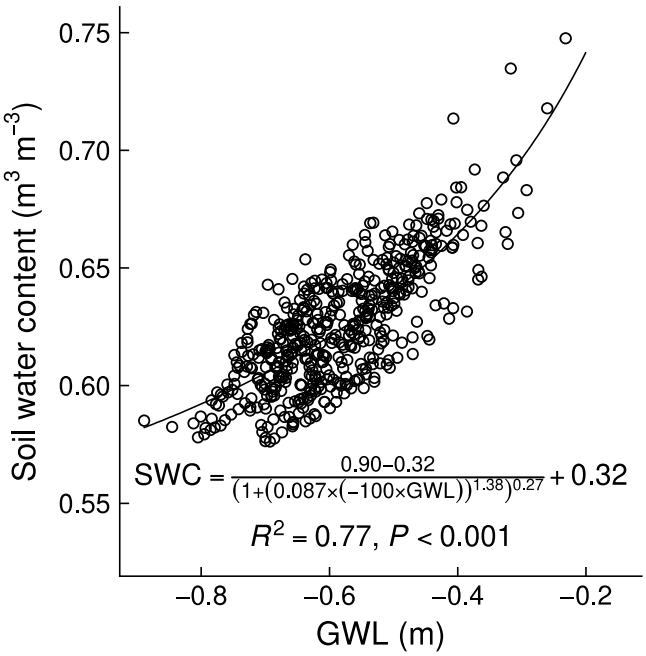

Fig. S3

Relationship between soil water content (SWC) and groundwater level (GWL).