

Table 2. Significant ( $p < 0.01$ ) correlations between percentages of relative abundance per sampling for each module (from A to F) and diverse variables. PC X represents the coordinates of the sampling points considered as supplementary qualitative variables in the morphospace along axis number X. Carbon export has no day/night distinction. Last column contains pieces of information from non-parametric statistical tests.

Module	PC 1	PC 2	PC 3	PC 4	Carbon export	Other relationships
A	n.s.	n.s.	n.s.	n.s.	n.s.	Night ( $p < 0.001$ )
B	n.s.	n.s.	n.s.	n.s.	n.s.	Not bloom community ( $p = 0.02$ )
C	n.s.	+0.74	n.s.	n.s.	-0.51	Summer community ( $p < 0.001$ )
D	n.s.	n.s.	+0.67	n.s.	+0.87	Bloom community ( $p < 0.001$ )
E	+0.56	n.s.	n.s.	n.s.	n.s.	n.s.
F	n.s.	+0.55	-0.54	n.s.	-0.60	n.s.