

***In situ* DOC concentrations (n=5) measured in the water column (2 m off the reef slope; water) and at the substrate-water interfaces of the reef algae *Dictyota* sp. (algae) and the scleractinian coral *Orbicella faveolata* (coral) at 5, 10 and 20 m depth.** Concentrations marked with an asterisk were excluded from the analysis due to irregularities during the injection and measurement procedure of the samples.

DOC concentration [$\mu\text{mol C L}^{-1}$]						
Type	Depth	1	2	3	4	5
water	5 m	102	104	85	84	78
	10 m	90	92	89	98	*122
	20 m	81	80	92	97	88
algae	5 m	*162	82	85	95	88
	10 m	107	100	90	108	112
	20 m	81	90	84	80	77
coral	5 m	85	88	93	93	86
	10 m	86	98	81	83	103
	20 m	99	88	94	90	85

Ambient light intensity (PAR) measured during the water sampling at 20, 10, and 5 m depth.

Depth	Time	Light intensity [$\mu\text{mol photons m}^{-2} \text{s}^{-1}$]
20 m	12:13	328
20 m	12:14	193
20 m	12:15	409
20 m	12:16	396
20 m	12:17	373
20 m	12:18	447
20 m	12:19	393
20 m	12:20	367
20 m	12:21	407
20 m	12:22	348
20 m	12:23	456
10 m	12:26	736
10 m	12:27	865
10 m	12:28	772
10 m	12:29	578
10 m	12:30	725
10 m	12:31	672
10 m	12:32	615
10 m	12:33	678

Depth	Time	Light intensity [$\mu\text{mol photons m}^{-2} \text{s}^{-1}$]
10 m	12:34	615
10 m	12:35	762
10 m	12:36	715
10 m	12:37	695
5 m	12:38	1132
5 m	12:39	1107
5 m	12:40	1718
5 m	12:41	1087
5 m	12:42	978
5 m	12:43	1122
5 m	12:44	1599
5 m	12:45	1328
5 m	12:46	840
5 m	12:47	1186
5 m	12:48	1145
5 m	12:49	851
5 m	12:50	1176
5 m	12:51	1726