

Table S1. AEC measurement times and site characteristics of kelp bed (KB) and bare rocky bottom (BR) habitats (locations, water depth, bottom water salinity and temperature, photosynthetically active radiation [PAR], mean flow velocity [\bar{U}], and dissolved oxygen [O_2]). The parenthesized values of O_2 are the daily mean and standard error.

	AEC measurement time (Local dates and times)	Location	Depth (m)	Salinity	Temperature (°C)	PAR ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	\bar{U} (cm s^{-1})	O_2 ($\mu\text{mol L}^{-1}$)
KB	10/10/2019 07:30 – 10/11/2019 08:10	37.2432 N	5.1	33.82–34.26	18.83–19.63	< 493	4.8–38.4	259–303
		131.8645 E				(74)	(8.8)	(276 ± 0.5)
BR	10/10/2019 07:30 – 10/11/2019 08:03	37.2440 N	8.4	(34.02)	(19.20)	< 399	2.4–16.5	196–261
		131.8639 E				(67)	(3.6)	(226 ± 0.4)