

**Supplementary material**

**Habitat suitability for Chilean silverside (*Basilichthys microlepidotus*) in the Mataquito River, Maule Region: a geospatial approach**

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**Table S1. Summary of the different environmental parameters monitored along Mataquito River. The values of each parameter were calculated as average ( $\pm$ s.d.) in each station locations (40 sample sites) for sampling periods (January, March, June, August and November)**

s.d., standard deviation. For case of the substrate, (1) Silt; (2) Sand; (3) Gravel and (4) Boulders

Station	Temperature (°C)	Dissolved oxygen (mg L <sup>-1</sup> )	Conductivity ( $\mu$ S cm <sup>-1</sup> )	Current velocity (m s <sup>-1</sup> )	Substrate
S01	15.34 ( $\pm$ 4.1)	6.62 ( $\pm$ 1.4)	433.88 ( $\pm$ 21.1)	0.68 ( $\pm$ 0.15)	3
S02	15.47 ( $\pm$ 4.3)	7.22 ( $\pm$ 0.9)	415.30 ( $\pm$ 18.8)	0.69 ( $\pm$ 0.18)	3
S03	15.49 ( $\pm$ 4.4)	7.48 ( $\pm$ 0.7)	396.74 ( $\pm$ 17.9)	0.71 ( $\pm$ 0.21)	2
S04	15.52 ( $\pm$ 4.5)	7.80 ( $\pm$ 0.5)	381.61 ( $\pm$ 22.3)	0.73 ( $\pm$ 0.25)	3
S05	15.58 ( $\pm$ 4.6)	8.14 ( $\pm$ 0.5)	366.47 ( $\pm$ 27.3)	0.76 ( $\pm$ 0.29)	3
S06	15.61 ( $\pm$ 4.7)	8.43 ( $\pm$ 0.4)	349.62 ( $\pm$ 30.1)	0.77 ( $\pm$ 0.34)	3
S07	15.65 ( $\pm$ 4.8)	8.72 ( $\pm$ 0.5)	332.77 ( $\pm$ 33.2)	0.80 ( $\pm$ 0.38)	3
S08	15.71 ( $\pm$ 4.9)	9.10 ( $\pm$ 0.7)	315.92 ( $\pm$ 36.4)	0.82 ( $\pm$ 0.42)	2
S09	15.77 ( $\pm$ 5.0)	9.37 ( $\pm$ 1.0)	307.50 ( $\pm$ 38.1)	0.82 ( $\pm$ 0.45)	4
S10	15.84 ( $\pm$ 5.1)	9.65 ( $\pm$ 1.2)	299.07 ( $\pm$ 39.8)	0.84 ( $\pm$ 0.48)	4
S11	15.95 ( $\pm$ 5.1)	9.59 ( $\pm$ 1.4)	298.80 ( $\pm$ 39.7)	0.92 ( $\pm$ 0.49)	3
S12	16.02 ( $\pm$ 5.1)	9.56 ( $\pm$ 1.5)	298.06 ( $\pm$ 39.2)	0.97 ( $\pm$ 0.48)	3
S13	16.13 ( $\pm$ 5.1)	9.53 ( $\pm$ 1.6)	297.32 ( $\pm$ 38.7)	1.04 ( $\pm$ 0.47)	4
S14	16.23 ( $\pm$ 5.2)	9.50 ( $\pm$ 1.6)	296.89 ( $\pm$ 38.4)	1.10 ( $\pm$ 0.45)	3
S15	16.31 ( $\pm$ 5.2)	9.47 ( $\pm$ 1.7)	296.45 ( $\pm$ 38.1)	1.16 ( $\pm$ 0.44)	3
S16	16.44 ( $\pm$ 5.2)	9.42 ( $\pm$ 1.9)	295.60 ( $\pm$ 37.6)	1.26 ( $\pm$ 0.46)	2
S17	16.41 ( $\pm$ 5.0)	9.12 ( $\pm$ 1.5)	296.73 ( $\pm$ 38.3)	1.22 ( $\pm$ 0.51)	2
S18	16.38 ( $\pm$ 4.8)	8.83 ( $\pm$ 1.3)	297.88 ( $\pm$ 39.0)	1.18 ( $\pm$ 0.57)	3
S19	16.34 ( $\pm$ 4.7)	8.54 ( $\pm$ 1.4)	299.01 ( $\pm$ 39.8)	1.15 ( $\pm$ 0.66)	2
S20	16.34 ( $\pm$ 4.6)	8.40 ( $\pm$ 1.5)	299.57 ( $\pm$ 40.1)	1.13 ( $\pm$ 0.70)	2
S21	16.34 ( $\pm$ 4.6)	8.26 ( $\pm$ 1.7)	300.15 ( $\pm$ 40.5)	1.11 ( $\pm$ 0.75)	3
S22	16.69 ( $\pm$ 4.8)	8.45 ( $\pm$ 1.3)	300.39 ( $\pm$ 40.1)	1.02 ( $\pm$ 0.70)	2
S23	17.05 ( $\pm$ 5.0)	8.65 ( $\pm$ 1.1)	300.62 ( $\pm$ 39.6)	0.93 ( $\pm$ 0.66)	3
S24	17.36 ( $\pm$ 5.4)	8.88 ( $\pm$ 1.3)	300.78 ( $\pm$ 39.4)	0.86 ( $\pm$ 0.65)	2
S25	17.45 ( $\pm$ 5.5)	8.93 ( $\pm$ 1.4)	300.83 ( $\pm$ 39.3)	0.84 ( $\pm$ 0.64)	2
S26	17.53 ( $\pm$ 5.5)	8.98 ( $\pm$ 1.5)	300.90 ( $\pm$ 39.2)	0.82 ( $\pm$ 0.64)	2
S27	17.75 ( $\pm$ 5.7)	9.03 ( $\pm$ 1.7)	301.07 ( $\pm$ 38.8)	0.74 ( $\pm$ 0.62)	3
S28	17.47 ( $\pm$ 5.3)	8.84 ( $\pm$ 1.4)	303.53 ( $\pm$ 39.5)	0.65 ( $\pm$ 0.50)	2
S29	17.32 ( $\pm$ 5.2)	8.77 ( $\pm$ 1.3)	304.75 ( $\pm$ 40.1)	0.61 ( $\pm$ 0.44)	2
S30	17.19 ( $\pm$ 5.0)	8.69 ( $\pm$ 1.2)	305.98 ( $\pm$ 40.8)	0.56 ( $\pm$ 0.38)	1
S31	16.89 ( $\pm$ 4.7)	8.51 ( $\pm$ 1.0)	308.45 ( $\pm$ 42.4)	0.48 ( $\pm$ 0.27)	1
S32	16.62 ( $\pm$ 4.5)	8.35 ( $\pm$ 1.0)	310.92 ( $\pm$ 44.4)	0.40 ( $\pm$ 0.16)	2
S33	16.74 ( $\pm$ 4.7)	8.01 ( $\pm$ 0.8)	336.37 ( $\pm$ 50.6)	0.61 ( $\pm$ 0.08)	1
S34	16.84 ( $\pm$ 4.7)	7.74 ( $\pm$ 0.8)	326.83 ( $\pm$ 52.2)	0.49 ( $\pm$ 0.11)	1
S35	16.97 ( $\pm$ 4.7)	7.46 ( $\pm$ 0.9)	317.32 ( $\pm$ 56.6)	0.36 ( $\pm$ 0.15)	2
S36	16.68 ( $\pm$ 4.5)	7.53 ( $\pm$ 0.6)	399.84 ( $\pm$ 189.0)	0.34 ( $\pm$ 0.12)	1
S37	16.38 ( $\pm$ 4.4)	7.62 ( $\pm$ 0.6)	482.40 ( $\pm$ 354.0)	0.31 ( $\pm$ 0.13)	2
S38	16.59 ( $\pm$ 4.8)	8.15 ( $\pm$ 0.7)	782.15 ( $\pm$ 415.0)	0.28 ( $\pm$ 0.08)	2
S39	16.70 ( $\pm$ 5.0)	8.42 ( $\pm$ 0.9)	932.01 ( $\pm$ 526.0)	0.25 ( $\pm$ 0.09)	1
S40	16.81 ( $\pm$ 5.2)	8.69 ( $\pm$ 1.1)	1081.90 ( $\pm$ 660.0)	0.24 ( $\pm$ 0.11)	1