

**TABLE S1.1** | Geographic information of stream stretches in full protection protected areas. Altitude and width in meters, depth in centimeters, and velocity in meter per second. Physical habitat index (PHI). Protected Areas (PA): Parque Estadual do Jurupará (PEJU), Parque Estadual Carlos Botelho (PECB), and Parque Estadual Intervales (PEI).

Stream stretch	Micro-basin	Latitude	Longitude	Altitude	Width	Depth	Velocity	PHI	PA
Grande	Juquiá-Guaçu	-23.843	-47.328	899	6.17	33.37	0.21	64	PEJU
São Pedro	Taquari	-24.290	-48.369	870	2.83	20.62	0.2	80	PEI
Temível	Preto	-24.129	-47.985	791	4.1	33.58	0.1	80	PECB
Bonito	Preto	-24.142	-47.994	769	5.1	17.57	0.11	79	PECB
AFrança	Juquiá-Guaçu	-23.929	-47.292	666	3.73	21.36	0.38	57	PEJU
AJGuacu2	Juquiá-Guaçu	-23.972	-47.223	585	2.97	18.25	0.17	67	PEJU
Carmo	Pilões	-24.306	-48.414	577	9.2	21.42	0.4	80	PEI
APreto	Preto	-24.172	-47.962	572	6.53	21.16	0.27	79	PECB
AJGuacu	Juquiá-Guaçu	-24.009	-47.276	513	2.9	18	0.14	80	PEJU
da Serra	Quilombo	-24.185	-47.933	231	6.4	21.63	0.27	80	PECB
mean				647.3	5	22.7	0.23	74.6	
sd				198.5	2.1	5.9	0.1	8.6	
min				231	2.8	17.6	0.1	57	
max				899	9.2	33.6	0.4	80	

**TABLE S1.2** | Geographic information of stream stretches in sustainable use protected areas. Altitude and width in meters, depth in centimeters, and velocity in meter per second. Physical habitat index (PHI). Protected Areas (PA): Área de Proteção Ambiental da Serra do Mar (APASM) and Área de Proteção Ambiental Quilombos do Médio Ribeira (APAQMR).

Stream stretch	Micro-basin	Latitude	Longitude	Altitude	Width	Depth	Velocity	PHI	PA
Verde	Açungui	-23.973	-47.573	739	4.93	38.07	0.4	56	APASM
Ouro Fino	Açungui	-24.013	-47.812	662	4.83	24.28	0.1	80	APASM
Cachoeira do Chá	Açungui	-24.029	-47.575	602	11.4	30	0.4	80	APASM
Corujas	Açungui	-24.060	-47.589	428	6.5	53.78	0.4	49	APASM
Areias	Juquiá-Guaçu	-24.031	-47.452	299	6.4	30.25	0.38	62	APASM
Pilões	Pilões	-24.453	-48.509	128	33	37.85	0.5	70	APAQMR
Itacolomi	Pilões	-24.474	-48.469	107	18.5	31.92	0.8	65	APAQMR
Pedro Cubas	Pedro Cubas	-24.461	-48.307	92	9.67	46.89	0.2	56	APASM
Ribeirão Fundo	Ribeirão Fundo	-24.143	-47.752	92	4	22.09	0.03	64	APAQMR
Ipiranga	Preto	-24.164	-47.850	89	26	46.24	0.36	73	APASM
AfTaquari	Taquari	-24.455	-48.210	86	3.1	17.33	0.2	65	APASM
Etá	Etá	-24.273	-48.107	71	23	30.08	0.3	73	APASM
Quilombo	Quilombo	-24.233	-48.053	43	16.67	68.33	0.3	55	APASM
Preto	Preto	-24.192	-47.891	28	11.47	56.28	0.3	65	APASM
mean				247.6	12.8	38.1	0.33	65.2	
sd				252.5	9.3	14.5	0.19	9.3	
min				28	3.1	17.3	0.03	49	
max				739	33	68.3	0.8	80	

**TABLE S1.3** | Geographic information of outside stream stretches. Altitude and width in meters, depth in centimeters, and velocity in meter per second. Physical habitat index (PHI).

Stream stretch	Micro-basin	Latitude	Longitude	Altitude	Width	Depth	Velocity	PHI
das Cachoeiras	Juquiá-Guaçu	-23.978	-46.891	729	5.27	65.2	0.1	72
AJuquiá	Juquiá-Guaçu	-23.987	-47.003	713	6.8	26.25	0.01	71
Turvo	Teixeira	-24.719	-49.522	710	19	31.89	0.5	75
Vargens	Juquiá-Guaçu	-23.863	-47.243	690	5.13	22.87	0.38	70
Laranjeiras	Juquiá-Guaçu	-23.842	-47.061	683	5.43	48.27	0.19	53
Itapirapuã	Figueira	-24.565	-49.318	647	15.17	42.91	0.5	57
Criminosas	Criminosas	-24.551	-49.202	632	5.77	41.06	0.2	70
Claro	Catas Altas	-24.441	-49.096	620	8.25	36.69	0.2	71
Guabiroba	Alto Ribeira	-24.900	-49.604	615	6.89	19.6	0.3	64
Socavão	Alto Ribeira	-24.919	-49.552	451	11.27	40.95	0.4	60
Palmital	Palmital	-24.573	-48.873	338	7.53	29.73	0.5	68
Iporanga	Monte Alegre	-24.521	-48.585	113	15.83	37.98	0.3	74
mean				578.4	9.4	36.9	0.3	67.1
sd				186.5	4.8	12.4	0.16	7
min				113	5.1	19.6	0.01	53
max				729	19	65.2	0.5	75



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