

Supplementary Material

Table SI. Pianka index values for each pair of fish species captured in lentic and lotic stretch of the Chavantes Reservoir, middle Paranapanema river basin.

Observed	Stretch	Pianka index (O)
<i>Acestrorhynchus lacustris</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.999
<i>Acestrorhynchus lacustris</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.999
<i>Galeocharax gulo</i> vs. <i>Hoplias malabaricus</i>	Lentic	0.999
<i>Plagioscion squamosissimus</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.998
<i>Hoplias malabaricus</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.997
<i>Galeocharax gulo</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.995
<i>Acestrorhynchus lacustris</i> vs. <i>Hoplias malabaricus</i>	Lentic	0.994
<i>Hoplias malabaricus</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.992
<i>Acestrorhynchus lacustris</i> vs. <i>Galeocharax gulo</i>	Lentic	0.99
<i>Galeocharax gulo</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.988
<i>Apareiodon affinis</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.878
<i>Apareiodon affinis</i> vs. <i>Schizodon nasutus</i>	Lentic	0.744
<i>Astyanax lacustris</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.723
<i>Pimelodus maculatus</i> vs. <i>Schizodon nasutus</i>	Lentic	0.523
<i>Schizodon nasutus</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.47
<i>Apareiodon affinis</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.411
<i>Gymnotus carapo</i> vs. <i>Leporinus amblyrhynchus</i>	Lentic	0.4
<i>Iheringichthys labrosus</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.365
<i>Apareiodon affinis</i> vs. <i>Iheringichthys labrosus</i>	Lentic	0.351
<i>Pimelodus maculatus</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.33
<i>Gymnotus carapo</i> vs. <i>Schizodon nasutus</i>	Lentic	0.314
<i>Iheringichthys labrosus</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.309
<i>Pimelodus maculatus</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.241
<i>Acestrorhynchus lacustris</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.24
<i>Pimelodus maculatus</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.232
<i>Iheringichthys labrosus</i> vs. <i>Leporinus amblyrhynchus</i>	Lentic	0.231
<i>Galeocharax gulo</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.227
<i>Hoplias malabaricus</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.227
<i>Gymnotus carapo</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.225
<i>Astyanax lacustris</i> vs. <i>Gymnotus carapo</i>	Lentic	0.18

Observed	Stretch	Pianka index (O)
<i>Iheringichthys labrosus</i> vs. <i>Schizodon nasutus</i>	Lentic	0.179
<i>Leporinus amblyrhynchus</i> vs. <i>Pimelodus maculatus</i>	Lentic	0.175
<i>Apareiodon affinis</i> vs. <i>Gymnotus carapo</i>	Lentic	0.15
<i>Leporinus amblyrhynchus</i> vs. <i>Schizodon nasutus</i>	Lentic	0.15
<i>Apareiodon affinis</i> vs. <i>Leporinus amblyrhynchus</i>	Lentic	0.141
<i>Gymnotus carapo</i> vs. <i>Iheringichthys labrosus</i>	Lentic	0.141
<i>Leporinus amblyrhynchus</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.12
<i>Astyanax lacustris</i> vs. <i>Leporinus amblyrhynchus</i>	Lentic	0.099
<i>Astyanax lacustris</i> vs. <i>Schizodon nasutus</i>	Lentic	0.093
<i>Gymnotus carapo</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.063
<i>Apareiodon affinis</i> vs. <i>Astyanax lacustris</i>	Lentic	0.058
<i>Acestrorhynchus lacustris</i> vs. <i>Apareiodon affinis</i>	Lentic	0.029
<i>Acestrorhynchus lacustris</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.029
<i>Astyanax lacustris</i> vs. <i>Iheringichthys labrosus</i>	Lentic	0.027
<i>Astyanax lacustris</i> vs. <i>Galeocharax gulo</i>	Lentic	0.021
<i>Acestrorhynchus lacustris</i> vs. <i>Iheringichthys labrosus</i>	Lentic	0.02
<i>Acestrorhynchus lacustris</i> vs. <i>Schizodon nasutus</i>	Lentic	0.018
<i>Astyanax lacustris</i> vs. <i>Hoplias malabaricus</i>	Lentic	0.017
<i>Astyanax lacustris</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.015
<i>Astyanax lacustris</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.013
<i>Gymnotus carapo</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.012
<i>Iheringichthys labrosus</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.012
<i>Astyanax lacustris</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.011
<i>Galeocharax gulo</i> vs. <i>Iheringichthys labrosus</i>	Lentic	0.011
<i>Hoplias malabaricus</i> vs. <i>Iheringichthys labrosus</i>	Lentic	0.01
<i>Iheringichthys labrosus</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.01
<i>Gymnotus carapo</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.008
<i>Schizodon nasutus</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.007
<i>Acestrorhynchus lacustris</i> vs. <i>Astyanax lacustris</i>	Lentic	0.006
<i>Apareiodon affinis</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.006
<i>Leporinus amblyrhynchus</i> vs. <i>Serrasalmus maculatus</i>	Lentic	0.005
<i>Serrasalmus maculatus</i> vs. <i>Steindachnerina insculpta</i>	Lentic	0.005
<i>Acestrorhynchus lacustris</i> vs. <i>Leporinus amblyrhynchus</i>	Lentic	0.004

Observed	Stretch	Pianka index (O)
<i>Acestrorhynchus lacustris</i> vs. <i>Gymnotus carapo</i>	Lentic	0.003
<i>Leporinus amblyrhynchus</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.003
<i>Plagioscion squamosissimus</i> vs. <i>Schizodon nasutus</i>	Lentic	0.003
<i>Apareiodon affinis</i> vs. <i>Plagioscion squamosissimus</i>	Lentic	0.001
<i>Galeocharax gulo</i> vs. <i>Hoplias malabaricus</i>	Lotic	1
<i>Galeocharax gulo</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.998
<i>Hoplias malabaricus</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.998
<i>Acestrorhynchus lacustris</i> vs. <i>Galeocharax gulo</i>	Lotic	0.988
<i>Acestrorhynchus lacustris</i> vs. <i>Hoplias malabaricus</i>	Lotic	0.988
<i>Acestrorhynchus lacustris</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.986
<i>Apareiodon affinis</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.926
<i>Galeocharax gulo</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.916
<i>Hoplias malabaricus</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.916
<i>Plagioscion squamosissimus</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.914
<i>Acestrorhynchus lacustris</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.905
<i>Gymnotus carapo</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.844
<i>Iheringichthys labrosus</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.442
<i>Apareiodon affinis</i> vs. <i>Iheringichthys labrosus</i>	Lotic	0.439
<i>Iheringichthys labrosus</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.417
<i>Iheringichthys labrosus</i> vs. <i>Leporinus amblyrhynchus</i>	Lotic	0.392
<i>Pimelodus maculatus</i> vs. <i>Schizodon nasutus</i>	Lotic	0.386
<i>Apareiodon affinis</i> vs. <i>Schizodon nasutus</i>	Lotic	0.373
<i>Apareiodon affinis</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.291
<i>Leporinus amblyrhynchus</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.255
<i>Apareiodon affinis</i> vs. <i>Leporinus amblyrhynchus</i>	Lotic	0.243
<i>Pimelodus maculatus</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.159
<i>Astyanax lacustris</i> vs. <i>Schizodon nasutus</i>	Lotic	0.155
<i>Acestrorhynchus lacustris</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.153
<i>Acestrorhynchus lacustris</i> vs. <i>Apareiodon affinis</i>	Lotic	0.147
<i>Gymnotus carapo</i> vs. <i>Iheringichthys labrosus</i>	Lotic	0.145
<i>Leporinus amblyrhynchus</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.143
<i>Astyanax lacustris</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.12
<i>Iheringichthys labrosus</i> vs. <i>Schizodon nasutus</i>	Lotic	0.108

Observed	Stretch	Pianka index (O)
<i>Gymnotus carapo</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.105
<i>Apareiodon affinis</i> vs. <i>Astyanax lacustris</i>	Lotic	0.092
<i>Pimelodus maculatus</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.088
<i>Gymnotus carapo</i> vs. <i>Schizodon nasutus</i>	Lotic	0.086
<i>Apareiodon affinis</i> vs. <i>Gymnotus carapo</i>	Lotic	0.075
<i>Gymnotus carapo</i> vs. <i>Leporinus amblyrhynchus</i>	Lotic	0.069
<i>Acestrorhynchus lacustris</i> vs. <i>Iheringichthys labrosus</i>	Lotic	0.064
<i>Astyanax lacustris</i> vs. <i>Gymnotus carapo</i>	Lotic	0.056
<i>Schizodon nasutus</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.045
<i>Astyanax lacustris</i> vs. <i>Iheringichthys labrosus</i>	Lotic	0.044
<i>Schizodon nasutus</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.043
<i>Acestrorhynchus lacustris</i> vs. <i>Leporinus amblyrhynchus</i>	Lotic	0.039
<i>Gymnotus carapo</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.036
<i>Pimelodus maculatus</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.032
<i>Acestrorhynchus lacustris</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.027
<i>Astyanax lacustris</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.025
<i>Apareiodon affinis</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.018
<i>Astyanax lacustris</i> vs. <i>Leporinus amblyrhynchus</i>	Lotic	0.016
<i>Acestrorhynchus lacustris</i> vs. <i>Schizodon nasutus</i>	Lotic	0.015
<i>Leporinus amblyrhynchus</i> vs. <i>Schizodon nasutus</i>	Lotic	0.012
<i>Acestrorhynchus lacustris</i> vs. <i>Gymnotus carapo</i>	Lotic	0.008
<i>Iheringichthys labrosus</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.008
<i>Acestrorhynchus lacustris</i> vs. <i>Astyanax lacustris</i>	Lotic	0.007
<i>Astyanax lacustris</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.006
<i>Galeocharax gulo</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.006
<i>Hoplias malabaricus</i> vs. <i>Pimelodus maculatus</i>	Lotic	0.006
<i>Astyanax lacustris</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.003
<i>Gymnotus carapo</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.003
<i>Hoplias malabaricus</i> vs. <i>Iheringichthys labrosus</i>	Lotic	0.003
<i>Serrasalmus maculatus</i> vs. <i>Steindachnerina insculpta</i>	Lotic	0.003
<i>Galeocharax gulo</i> vs. <i>Iheringichthys labrosus</i>	Lotic	0.002
<i>Iheringichthys labrosus</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.002
<i>Galeocharax gulo</i> vs. <i>Gymnotus carapo</i>	Lotic	0.001

Observed	Stretch	Pianka index (O)
<i>Gymnotus carapo</i> vs. <i>Hoplias malabaricus</i>	Lotic	0.001
<i>Leporinus amblyrhynchus</i> vs. <i>Plagioscion squamosissimus</i>	Lotic	0.001
<i>Leporinus amblyrhynchus</i> vs. <i>Serrasalmus maculatus</i>	Lotic	0.001
<i>Plagioscion squamosissimus</i> vs. <i>Schizodon nasutus</i>	Lotic	0.001