ISPM

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| Scarus ghobban | |

Peces

Estructura comunitaria

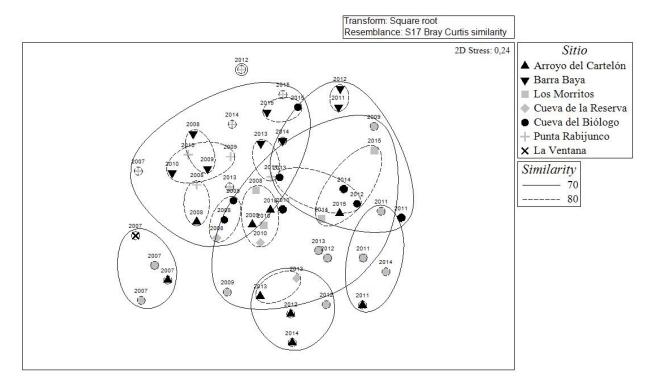
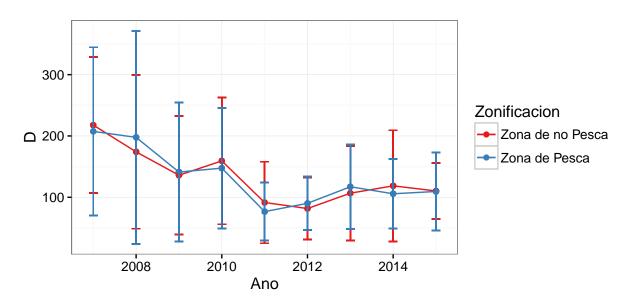


Figure 1: Escalamiento multidimensional no métrico para peces. Los marcadores en negro y gris representan zonas de pesca y no pesca, respectivamente.

Densidad promedio por zona



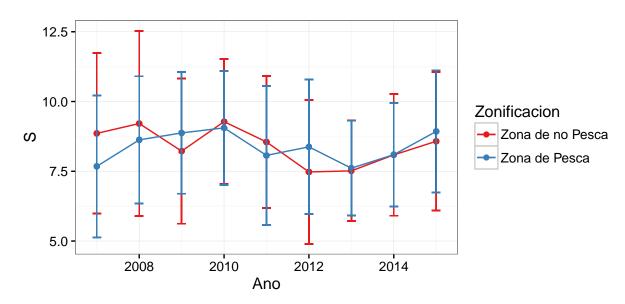
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Table 1: Modelos lineales describiendo cambios en las densidades promedio por zona.

| | Densidad (orgs / transecto) | | |
|-------------------------|-----------------------------|--------------------------|-----------------------------|
| | | | |
| | Pesca | Reserva | |
| | (1) | (2) | (3) |
| Año | -12.889 | -12.207 | -15.905 |
| | t = -3.249** | $t = -3.125^{**}$ | $t = -5.903^{***}$ |
| Zonificacion | | | -8.412 |
| | | | t = -2.266** |
| Temperatura | 26,053.270 | 24,681.770 | 32,296.540 |
| | t = 3.266** | $t = 3.142^{**}$ | $t = 5.922^{***}$ |
| R^2 | 0.601 | 0.583 | 0.714 |
| Adjusted R ² | 0.544 | 0.523 | 0.673 |
| Residual Std. Error | 30.727 (df = 7) | 30.256 (df = 7) | 25.449 (df = 14) |
| F Statistic | $10.558^{**} (df = 1; 7)$ | $9.767^{**} (df = 1; 7)$ | $17.486^{***} (df = 2; 14)$ |
| 77 | · | |) 4 44 00 × 444 004 |

Note: *p<0.1; **p<0.05; ***p<0.01

Riqueza promedio por zona



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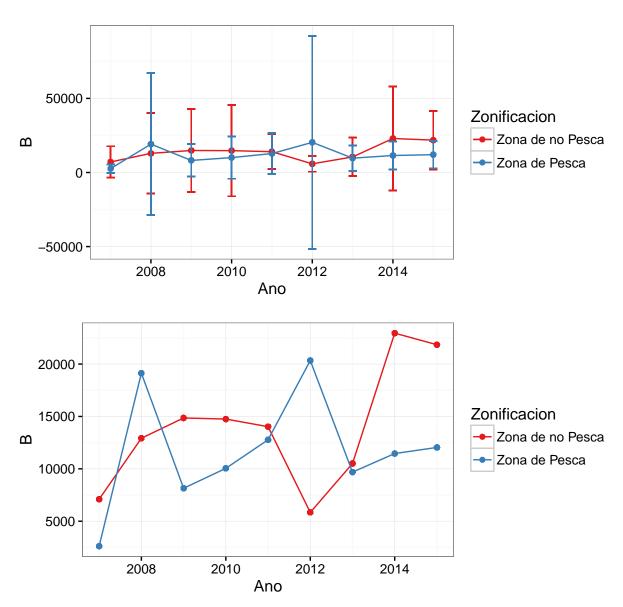
Table 2: Modelos lineales describiendo cambios en las densidades promedio por zona.

| | Riqueza (s / transecto) S | |
|--------------------------------|-----------------------------|------------|
| | | |
| | Pesca | Reserva |
| | (1) | (2) |
| Año | 0.003 | -0.129 |
| | t = 0.046 | t = -1.680 |
| Constant | 1.442 | 267.160 |
| | t = 0.010 | t = 1.735 |
| \mathbb{R}^2 | 0.0003 | 0.287 |
| Adjusted R ² | -0.143 | 0.186 |
| Residual Std. Error $(df = 7)$ | 0.576 | 0.593 |
| F Statistic (df = $1; 7$) | 0.002 | 2.823 |
| Note: | *n<0.1. **n<0.05. ***n<0.01 | |

Note:

*p<0.1; **p<0.05; ***p<0.01

Biomasa promedio por zona



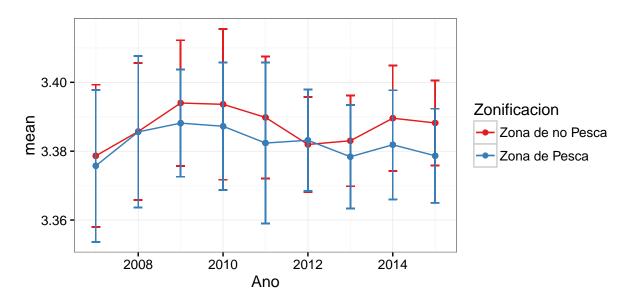
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Table 3: Modelos lineales describiendo cambios en las densidades promedio por zona.

| | Biomasa (grs) B | |
|--------------------------------|-------------------------------------|---------------------------------------|
| | | |
| | Pesca Reserv | |
| | (1) | (2) |
| Año | 467.307 | 1,191.358 |
| Constant | t = 0.646 -927,948.900 t = -0.638 | t = 1.794 -2,381,956.000 t = -1.784 |
| Adjusted R ² | -0.079 | 0.217 |
| Residual Std. Error $(df = 7)$ | 5,604.198 | 5,143.631 |
| F Statistic (df = $1; 7$) | 0.417 | 3.219 |
| Note: | *p<0.1; **p<0.05; ***p<0.01 | |

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Nivel trófico promedio por zona

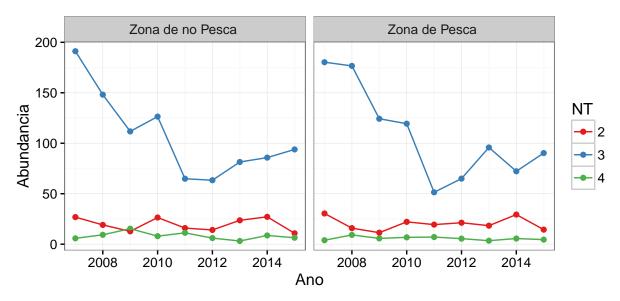


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Table 4: Modelos lineales describiendo cambios en las densidades promedio por zona.

| | Nivel Trófico NT | |
|--------------------------------|-----------------------------------|----------------------------------|
| | | |
| | Pesca | Reserva |
| | (1) | (2) |
| Año | -0.0004 | 0.0003 |
| Constant | t = -0.685 4.157 $t = 3.674***$ | t = 0.377 2.842 t = 1.968* |
| Adjusted R ² | -0.071 | -0.120 |
| Residual Std. Error $(df = 7)$ | 0.004 | 0.006 |
| F Statistic (df = $1; 7$) | 0.469 | 0.142 |
| Note: | *p<0.1; **p<0.05; ***p<0.01 | |

Proporciones de Nivel Trófico en Peces



Pearson's Chi-squared test

data: pro.NT_P X-squared = 0.38274, df = 16, p-value = 1

Pearson's Chi-squared test

data: pro.NT_R X-squared = 0.29691, df = 16, p-value = 1

Invertebrados

Estructura comunitaria

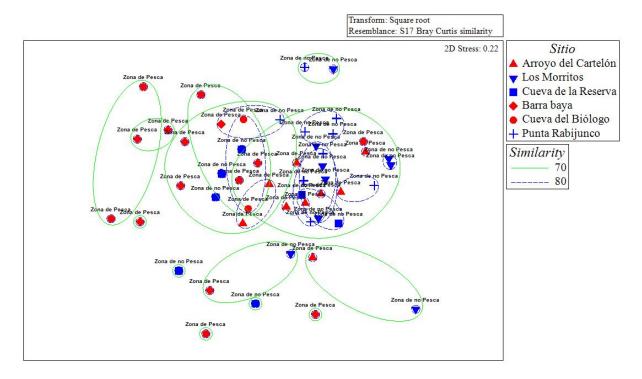
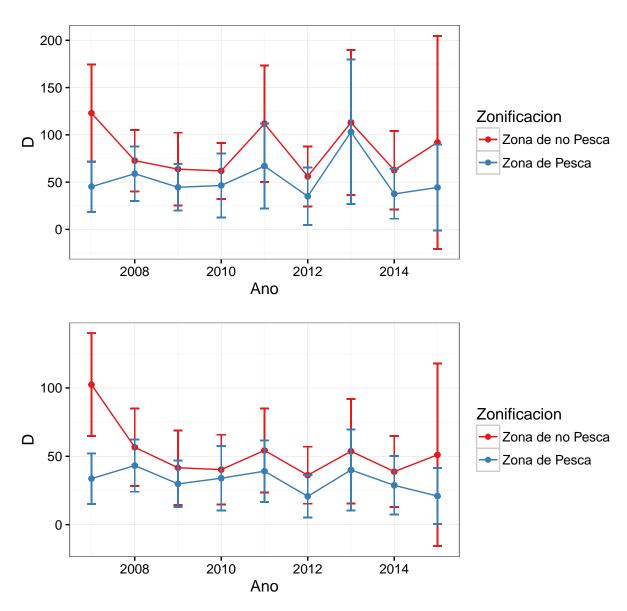


Figure 2: Escalamiento multidimensional no métrico para invertebrados. Los marcadores rojos y azules representan zonas de pesca y no pesca, respectivamente.

Densidad promedio por zona

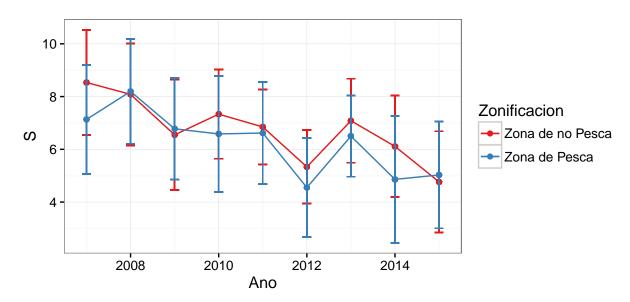


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Table 5: Modelos lineales describiendo cambios en las densidades promedio por zona.

| | $\frac{-\text{Densidad (org / transecto)}}{\text{N}}$ | |
|--------------------------------|---|---------------------------|
| | | |
| | Pesca | Reserva |
| | (1) | (2) |
| Año | 0.640 | -1.013 |
| Constant | $t = 0.220 \\ -1,232.770$ | $t = -0.282 \\ 2,120.260$ |
| | t = -0.211 | t = 0.294 |
| Adjusted R^2 | -0.135 | -0.130 |
| Residual Std. Error $(df = 7)$ | 22.482 | 27.773 |
| F Statistic (df = $1; 7$) | 0.049 | 0.080 |
| Note: | *p<0.1; **p<0.05; ***p<0.01 | |

Riqueza promedio por zona



% Table created by stargazer v.5.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu % Date and time: vi., ago. 19, 2016 - 16:06:56

Table 6: Modelos lineales describiendo cambios en las densidades promedio por zona.

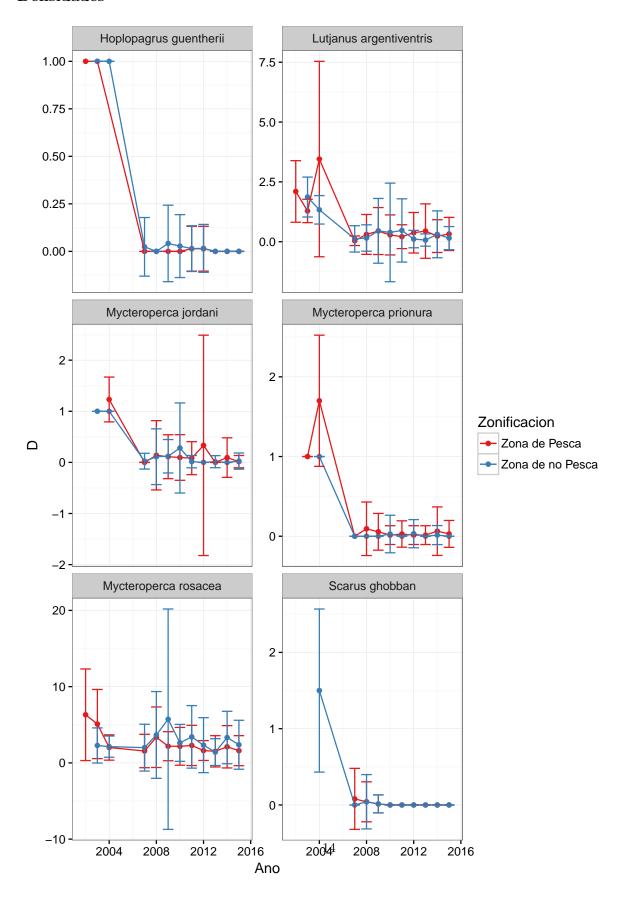
| | Riqueza S | |
|---|--|--|
| | | |
| | Pesca | Reserva |
| | (1) | (2) |
| Año | -0.350 | -0.365 |
| Constant | $t = -3.543^{***}$ 710.537 $t = 3.574^{***}$ | $t = -3.838^{***}$ 741.466 $t = 3.873^{***}$ |
| Adjusted R ² | 0.591 | 0.632 |
| Residual Std. Error $(df = 7)$ | 0.766 | 0.737 |
| F Statistic ($df = 1; 7$) | 12.552*** | 14.731*** |
| F Statistic (df = 1; 7) Note: M_{obs} | 12.552*** *n <0.1. **n | |

Note:

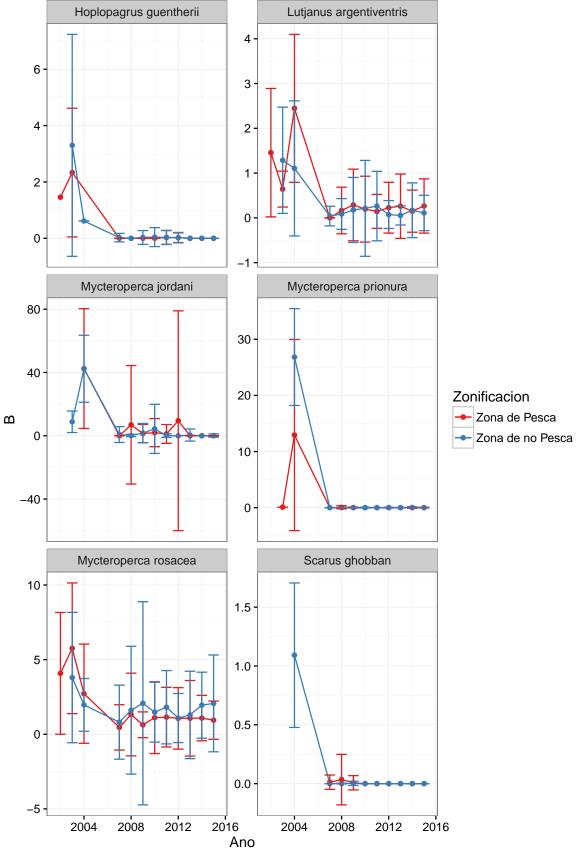
*p<0.1; **p<0.05; ***p<0.01

Especies objetivo de RBISPM

Densidades



Biomasa



Mycteroperca jordani

Mycteroperca prionura

Mycteroperca rosacea

Lutjanus argentiventris

Hoplopagrus guntherii

Scarus ghobban