

Appendix.

Table 1. Relationship between fish occupancy and complexity indices by species.

**Fractal dimensions**

<i>Excluding control habitat</i>	Intercept	Slope	d.f.	r <sup>2</sup>	p	
<i>C. julis</i>	-2.567	1.98	8	0.45	0.031	*
<i>D. vulgaris</i>	-1.425	1.18	8	0.466	0.029	*
<i>S. ocelluatus</i>	-3.291	2.45	8	0.361	0.066	

**Visual surface area**

<i>Including control habitat</i>	Intercept	Slope	d.f.	r <sup>2</sup>	p	
<i>C. julis</i>	0.283	0.0003	9	0.51	0.001	***
<i>D. vulgaris</i>	0.288	0.0002	9	0.62	0.004	**
<i>S. ocelluatus</i>	0.245	0.0004	9	0.45	0.022	**

Table 2. Comparing differences in linear relationships between the three fish species occupancies and complexity indices.

**ANCOVA (Fractal dimensions)**

	Df	Sum Sq	Mean Sq	F	value	Pr(>F)
Fractal Dimensions	1	0.4418	0.4418	14.98	0.0007	***
Species	2	0.0243	0.0121	0.411	0.6673	
Fractal Dimensions:Species	2	0.0345	0.0172	0.584	0.5654	
Residuals	24	0.7078	0.029			

**ANCOVA (Visual surface area)**

	Df	Sum Sq	Mean Sq	F	value	Pr(>F)
Surface area	1	0.6255	0.6255	24.903	3.13E-05	***
Species	2	0.0177	0.0088	0.352	0.706	
Surface area:Species	2	0.0413	0.0207	0.823	0.45	
Residuals	27	0.6782	0.0251			