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The fisheries history of small pelagics in the Northern Mediterranean.

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# **Supplementary material: Table S2**

Table S2 Results of the GAM models, per species and for two periods; before (1865-1960) and after (1963-2013) the 1960s landings increase. Models for the last period were run on both the dataset with and without Marseille. For every retained linear term, the estimate (mean) is given with its standard error (s.e.) and the corresponding t- and p-value. For the smoothed (s) year effect, the effective degrees of freedom (edf), the estimated smoothing parameter (λ), the F-statistic and the p-value are shown. P-values were categorised into high (p<0.001,\*\*\*), intermediate (0.01<p<0.001,\*\*), low (0.05<p<0.01,\*) or close to (0.05<p<0.10, .) significance.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Early (1865-1960)** | | | | | | | | | |
| **Sardine** | | | | | | | | | |
|  | Estimate | s.e. | t | p | | | | | |
| Intercept | 7.31 | 8.63x10-2 | 84.65 | \*\*\* | | | | | |
| Sard(t-1) | 1.81x10-4 | 3.52x10-5 | 5.13 | \*\*\* | | | | | |
|  | edf | λ | F | p | | | | | |
| s(year) | 8.47 | 6.59 | 2.26 | \* | | | | | |
| **Anchovy** | | | | | | | | | |
|  | Estimate | s.e. | t | p | | | | | |
| Intercept | 4.79 | 0.16 | 30.47 | \*\*\* | | | | | |
| AMO | -0.45 | 0.16 | -8.90 | \*\* | | | | | |
| Anch(t-1) | 2.05x10-3 | 4.69x10-4 | 4.36 | \*\*\* | | | | | |
|  | edf | λ | F | p | | | | | |
| s(year) | 2.65 | 3.32 | 4.80 | \*\* | | | | | |
| **Mackerel** | | | | | | | | | |
|  | Estimate | s.e. | t | p | | | | | |
| Intercept | 5.54 | 0.11 | 51.53 | \*\*\* | | | | | |
| Mack(t-1) | 8.69x10-4 | 1.21x10-4 | 7.19 | \*\*\* | | | | | |
| **Late (1963-2013)** | | | | | | | | | |
| **Sardine** | | | | | | | | | |
|  | *With Marseille* | | | | *Without Marseille* | | | | |
|  | Estimate | s.e. | t | p | Estimate | | s.e. | t | p |
| Intercept | 9.51 | 1.93x10-1 | 49.32 | \*\*\* | 8.50 | | 1.72x10-1 | 49.30 | \*\*\* |
| Sard(t-1) | 7.32x10-6 | 1.25x10-5 | 0.58 |  | 5.48x10-5 | | 1.71x10-5 | 3.20 | \*\* |
|  | edf | λ | F | p | edf | | λ | F | p |
| s(year) | 5.25 | 6.42 | 1.73 |  | 7.19 | | 8.23 | 14.71 | \*\*\* |
| **Anchovy** | | | | | | | | | |
|  | *With Marseille* | | | | *Without Marseille* | | | | |
|  | Estimate | s.e. | t | p | Estimate | s.e. | | t | p |
| Intercept | 7.42 | 2.13x10-1 | 34.79 | \*\*\* | 7.43 | 1.63x10-1 | | 45.68 | \*\*\* |
| WeMO | 1.08x10-1 | 4.00x10-2 | 2.54 | \* | 6.62x10-2 | 3.01x10-2 | | 2.20 | \* |
| AMO | 3.24x10-1 | 1.85x10-1 | 1.76 | . | / | / | | / | / |
| Anch(t-1) | 1.69x10-4 | 5.01x10-5 | 3.38 | \*\* | 1.42x10-4 | 4.53x10-5 | | 3.13 | \*\* |
|  | edf | λ | F | p | edf | λ | | F | p |
| s(year) | 4.48 | 5.43 | 4.52 | \*\* | 5.20 | 6.33 | | 3.95 | \*\* |
| **Mackerel** | | | | | | | | | |
|  | *With Marseille* | | | | *Without Marseille* | | | | |
|  | Estimate | s.e. | t | p | Estimate | s.e. | | t-value | p |
| Intercept | 6.33 | 0.18 | 34.29 | \*\*\* | 6.15 | 1.40x10-1 | | 43.82 | \*\*\* |
| Mack(t-1) | 5.57x10-4 | 1.80x10-4 | 3.10 | \*\* | 6.64x10-4 | 1.55x10-4 | | 4.82 | \*\*\* |