**Supplementary Information**

Calendar

Description automatically generated

**Supplementary Figure 1**: Climatic and topographic characterization of sites where *L. serriola*, *L. virosa*, and both species were found. The thick vertical line represents median values across occurrences, the boxplots between 25 and 75% of variation, and circles the outliers within 90% of total variation.

**A**

Chart, scatter chart

Description automatically generated

**B**

**Chart

Description automatically generated**

**C**

**Chart, scatter chart

Description automatically generated**

**Supplementary Figure 2**: A. Non-metric multidimensional scaling, B. principal component analysis, and C Biplot of principal component analysis, showing the 23 measured climatic and topographic variables, for *L. serriola* and *L. virosa*. Sites where the species overlap are not included in these analyses.