Green Status of Species: Supplementary information

Acigöl Killifish (*Anatolichthys transgrediens*)

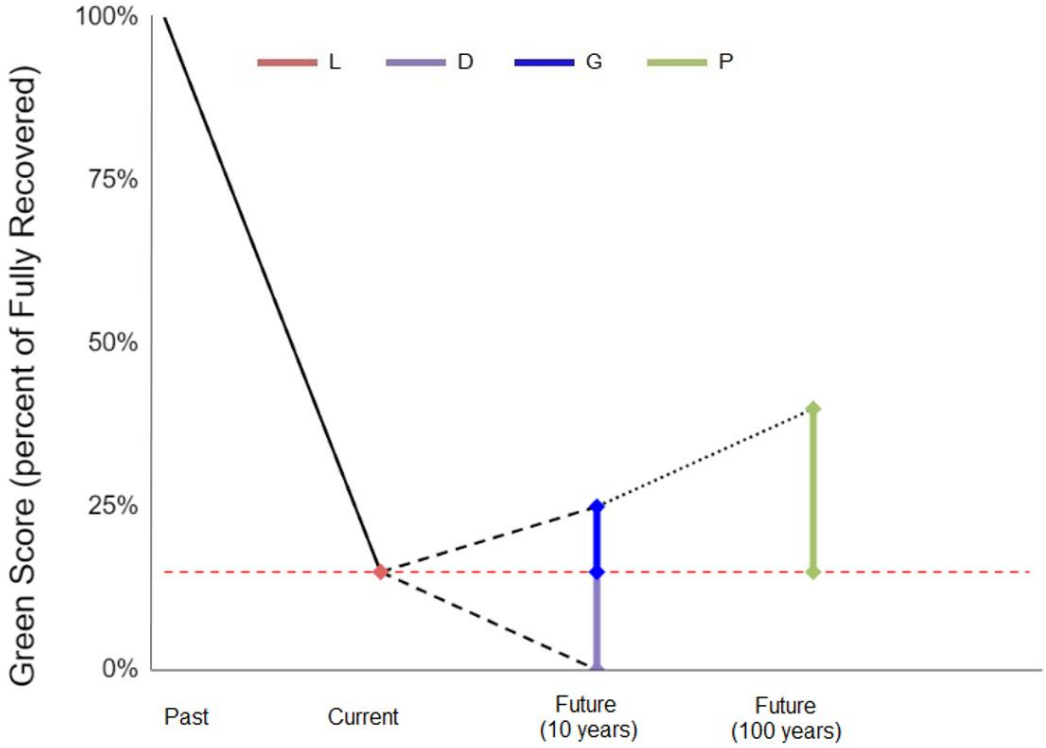

Figure S1. Graphical representation of the conservation metrics based on the Green Scores. Key: Vertical arrows represent the four conservation metrics: L – Conservation Legacy (may not appear if current and counterfactual states are the same); D – Conservation Dependence (may not appear if current and future-without-conservation states are the same); G – Conservation Gain (may not appear if current and future-with-conservation states are the same); P – Recovery Potential (may not appear if current and potential states are the same). The horizontal red dashed line represents the Current Green Score. Solid black line: observed change in the Green Score of the species (ignore it if "Former" state is not specified). Long-dashed black line: (counterfactual) past change expected in the absence of past conservation efforts. Dashed black lines: future scenarios of change expected with and without current and future conservation efforts. Dotted black line: long-term potential change expected with future conservation innovation and efforts.

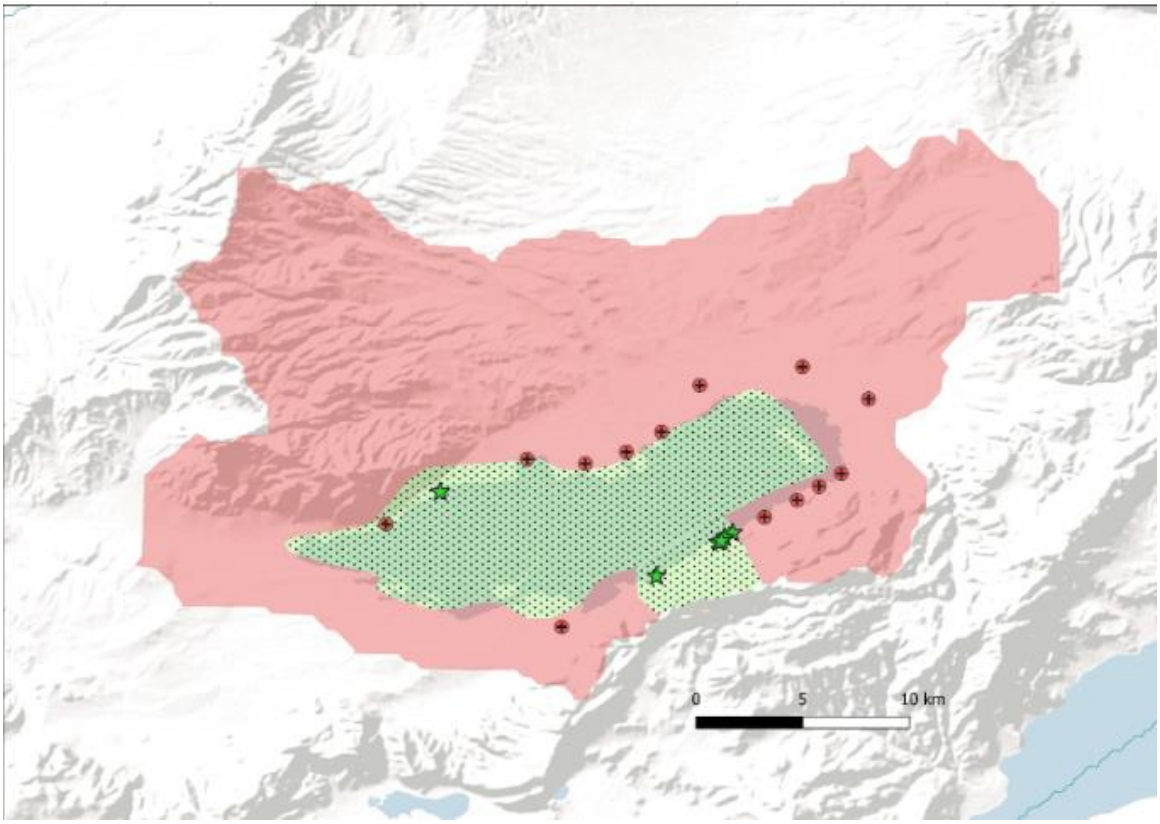

Figure S2. Map showing the extirpated (in red) and extant (in green) native range of the Acigöl Killifish. Points marked with a red + indicate historical records where the species is now extirpated (mostly extracted from Grimm 1979). Points marked with a green star are extant sites based on recent site scale records. The two clusters of location where this species is found in the south are grouped together as they fall within the same hydrobasin (level 12). The main lake is included in the current range due to this species' ability to migrate and use the lake. Map prepared by Baran Yoğurtçuoğlu.

References

Grimm, H. 1979. Veränderungen in der variabilität von populationen des zahnkarpfens *Aphanius anatoliae* (Leidenfrost, 1912) während 30 Jahren: 1943–1974. *Journal of Zoological Systematics and Evolutionary Research* 17(4): 272–280.

Appendix 1. Assessor Self-Review

1. **Disclose any potential conflicts of interest which could bias the assessment**. There are no conflicts of interest to disclose

2. **Is there any discrepancy between this assessment and the Red List assessment for the species? If so, comment on the likely reason for this discrepancy.**
   The Red List account states that there are no conservation actions in place for this species, but several have been implemented (as described in this assessments) since the publication of the Red List account.

3. **Review the impact that you assigned to the various threats and conservation actions. Would the trajectory of the species be very different if other choices were made? If so, review your justification for these choices. If appropriate, widen the bounds on tabs 4 and 5-8 (change the lower and upper plausible values) to reflect the uncertainty introduced by the possibility of these other choices. How, if at all, did this review question cause this assessment to change? If no changes were needed, please write "no changes".**
   The short-term future scenarios were difficult to assess as the introductions into Hacettepe University lake have only just begun, therefore there is no evidence yet on survival, reproduction and the impact of non-native turtles. We have attempted to capture this in the uncertainty, but highlight that reassessment would be beneficial when there is more evidence to support how the assisted migration to this lake will work. The long-term future for this spatial unit is indeterminate, due to uncertainty on the effects of climate change on this lake.