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Fish Net – an update on four freshwater conservation projects



What is Fish Net?

"A consortium of zoos, aquariums, universities, research centres, non-government organisations and hobbyists working together to save freshwater fish from extinction."





ZSL's Fish Net locations



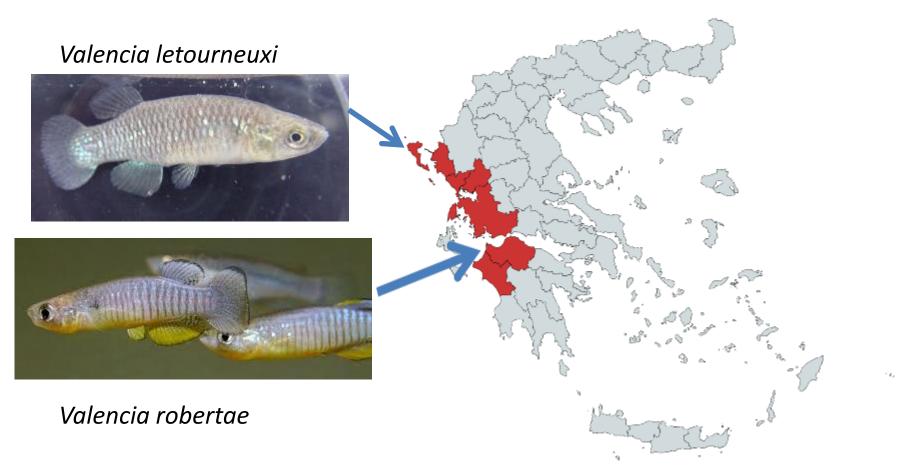


ZSL's Fish Net locations





Fish Net Greece



Created with mapchart.net #



Partners







ENYAPEIO





INSTITUTE OF MARINE BIOLOGICAL RESOURCES AND INLAND WATERS







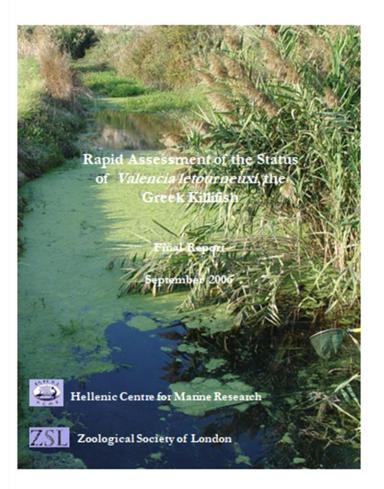






Early activities

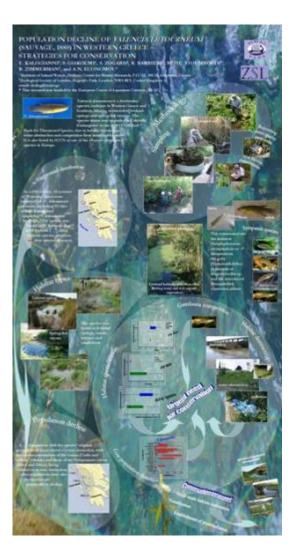
- 2005-2006 Surveyed the full range of Valencia letourneuxi in Greece (92 separate sites)
- Prepared a report: "Rapid Assessment of the Status of *Valencia letourneuxi*, the Greek Killifish" (2006)





Outputs

- Poster presented at the European Congress of Conservation Biology, Eger, Hungary (2006)
- Feeding ecology of the critically endangered Valencia letourneuxi (Valenciidae)E Kalogianni, S Giakoumi, A Andriopoulou, Y Chatzinikolaou. Aquatic ecology 44 (1), 289-299
- Current distribution and ecology of the critically endangered Valencia letourneuxi in Greece. E Kalogianni, S Giakoumi, S Zogaris, Y Chatzinikolaou, B Zimmerman. Biologia 65 (1), 128-139
- Reduced genetic variation and strong genetic population structure in the freshwater killifish Valencia letourneuxi (Valenciidae) based on nuclear and mitochondrial markers. E Vogiatzi, E Kalogianni, B Zimmerman, S Giakoumi, R Barbieri. Biological journal of the Linnean Society 111 (2), 334-349
- Prey utilisation and trophic overlap between the non native mosquitofish and a native fish in two Mediterranean rivers. E Kalogianni, S Giakoumi, A Andriopoulou, Y Chatzinikolaou. Mediterranean Marine Science 15 (2), 287-301
- Rapid population collapse of the critically endangered Valencia letourneuxi in Kalamas basin of Northwest Greece. C Perdikaris. AACL Bioflux 3 (2), 69-76.
- Characterization of polymorphic microsatellite markers in Valencia letourneuxi (Valenciidae) and cross-amplification in two other cyprinodontiform species. E Vogiatzi, E Kalogianni, S Giakoumi, A Magoulas, CS Tsigenopoulos. Conservation Genetics Resources 1 (1), 27
- Current population status of Valencia letourneuxi (Sauvage, 1880) in the Mornos River Delta. S Giakoumi, B Zimmerman, S Zogaris, A Economou, E Kaloginni
- Occurrence and effect of trematode metacercariae in two endangered killifishes from Greece. E Kalogianni, N Kmentová, E Harris, B Zimmerman, S Giakoumi. Parasitology Research, 1-12





Current activities

- Two translocation exercises:
 - Supplementation (Chiliadou springs \rightarrow Kryoneri springs)





- Assisted migration (Vlychos springs \rightarrow Priala springs)







Translocations











Sorting the catch





Packing fish for transport







Releasing







eDNA for monitoring





Surveying with a drone



"Spriridoula"







Kastoria Aquarium



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Bringing nature to the classroom





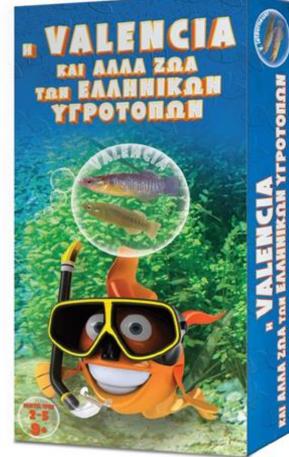






Killifish board games





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Fish Net Turkey



Aphanius transgrediens



Aphanius saldae



Aphanius fontinalis



Created with mapping the ID

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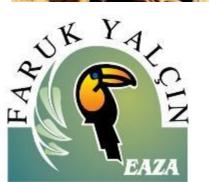












HAYVANAT BAHÇESI VE BOTANIK PARKI











Early activities





Early activities





Current activities







Killifish of Lake salda

Aphanius fontinalis

Aphanius saldae

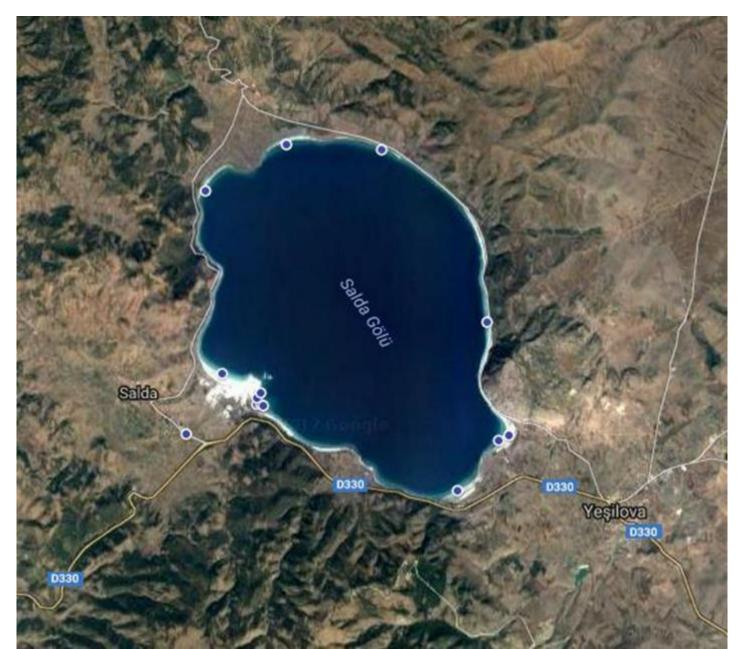








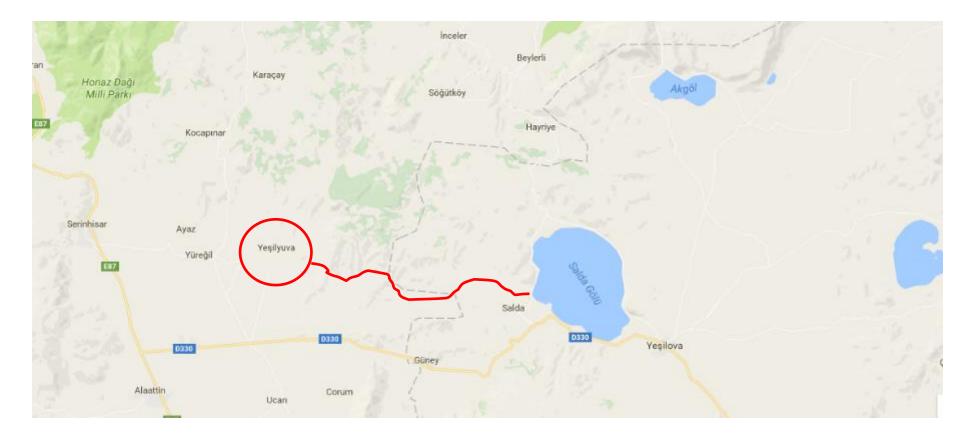








Hydroelectric dam





What's next?





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Ptychochromis insolitus



Paretroplus nourissati

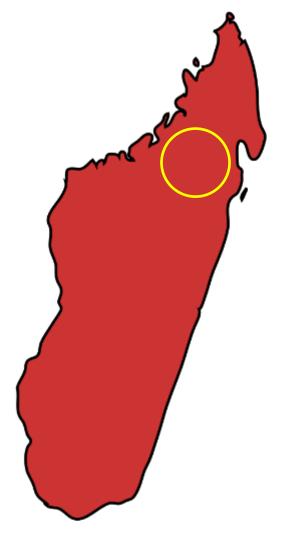


Rehocles derhami



Pachypanchax cf. sofiae

Fish Net Madagascar





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Early activities









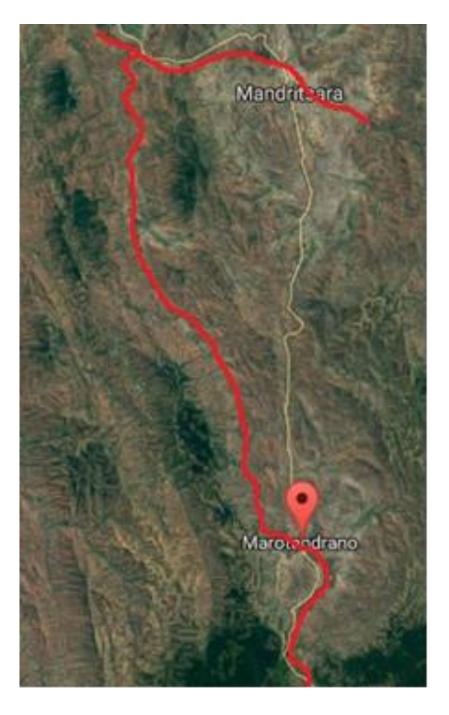
Establishing secure populations ex-situ





Current activity: 110 kilometre hike







Current and planned activities







Map of water availability and habitat quality





Spiridoula returns...



ZSL For Sweet The future: community fish ponds & possible translocation







Fish Net - Turkmenistan



Nemacheilus starostini



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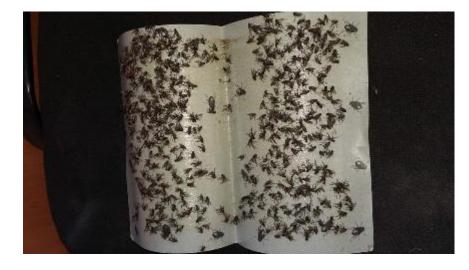


Activities













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Water quality analysis & training









Naught-EE, the ROV









Catching, measuring and photographing





Other sites, other species











Outputs

- DNA extracted from all species sampled
- Report submitted to Turkmen government
- Staff at nature reserve trained in water quality analysis and continued monitoring of the sinkhole
- Application submitted to UNESCO for World Heritage nomination









Thank you!