

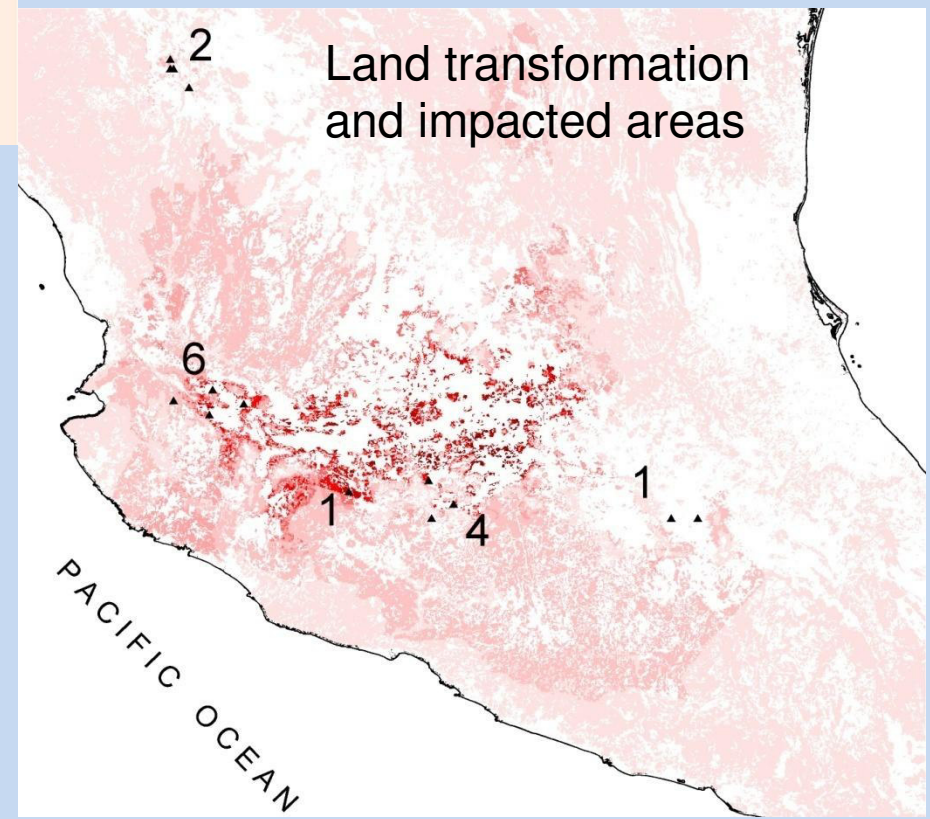
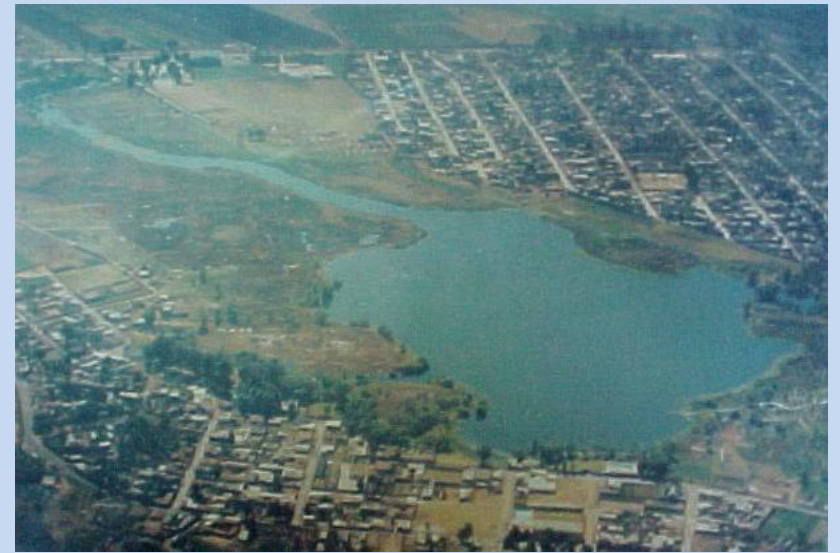
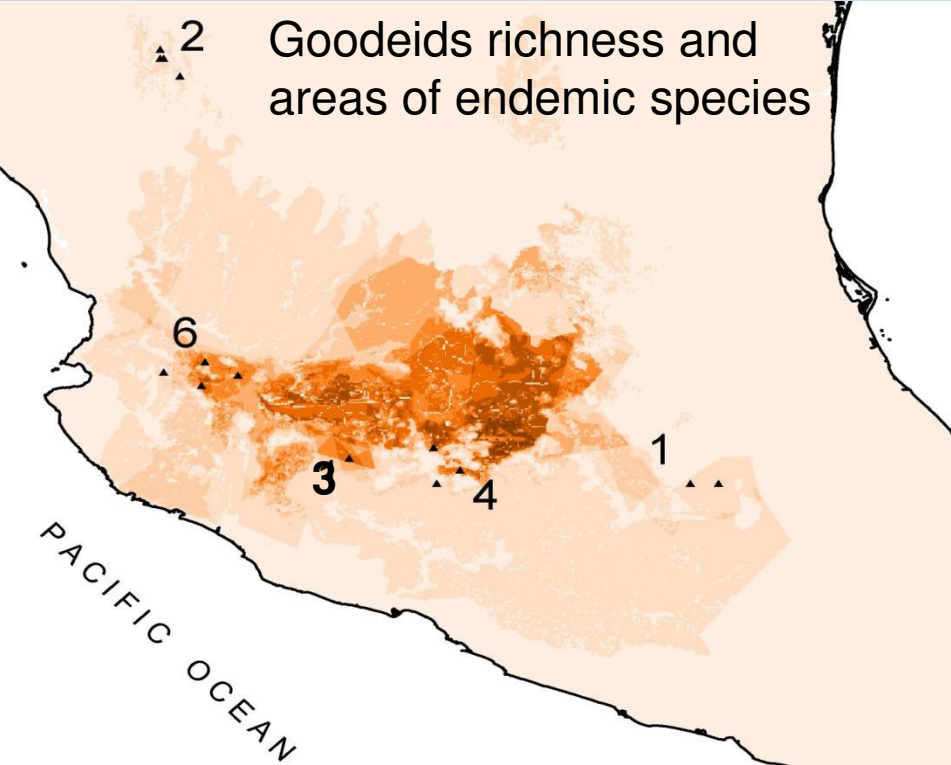


Fish ark-México

Reintroducing *tequila*

Hobbyist Aqualab Conservation Project





Population density

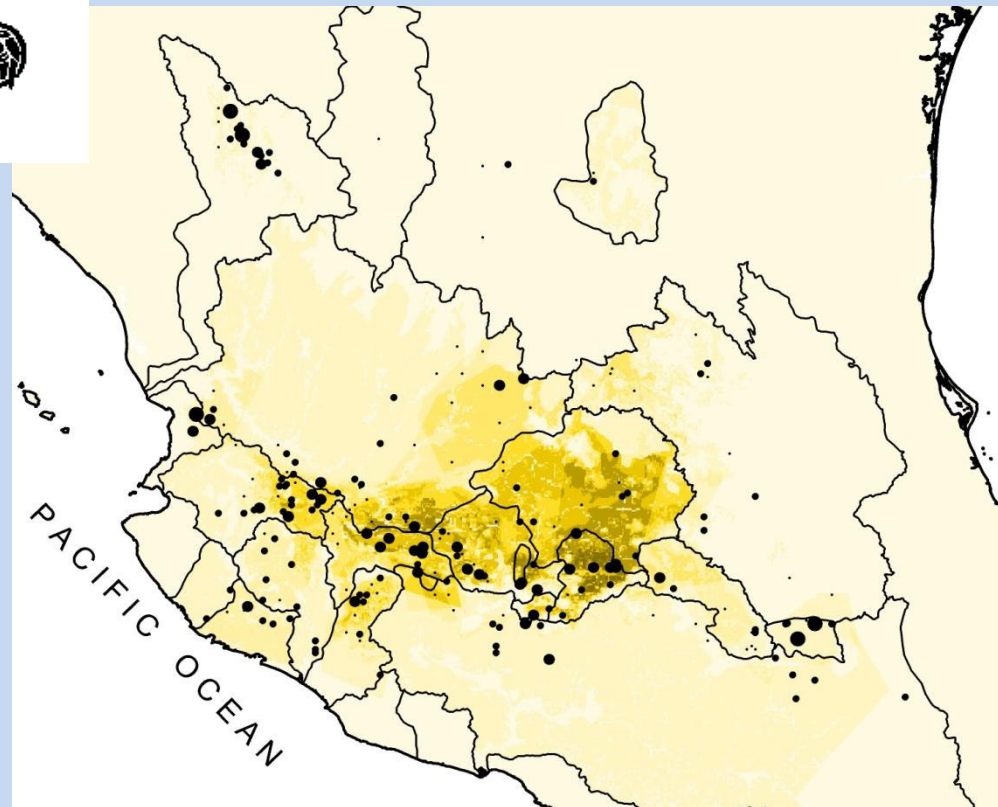
70% P
56% I
20% W

SIMBOLOGÍA
Hab/km² (1995)
5 - 20
21 - 60
61 - 150
151 - 300
301 - 600
601 - 5750

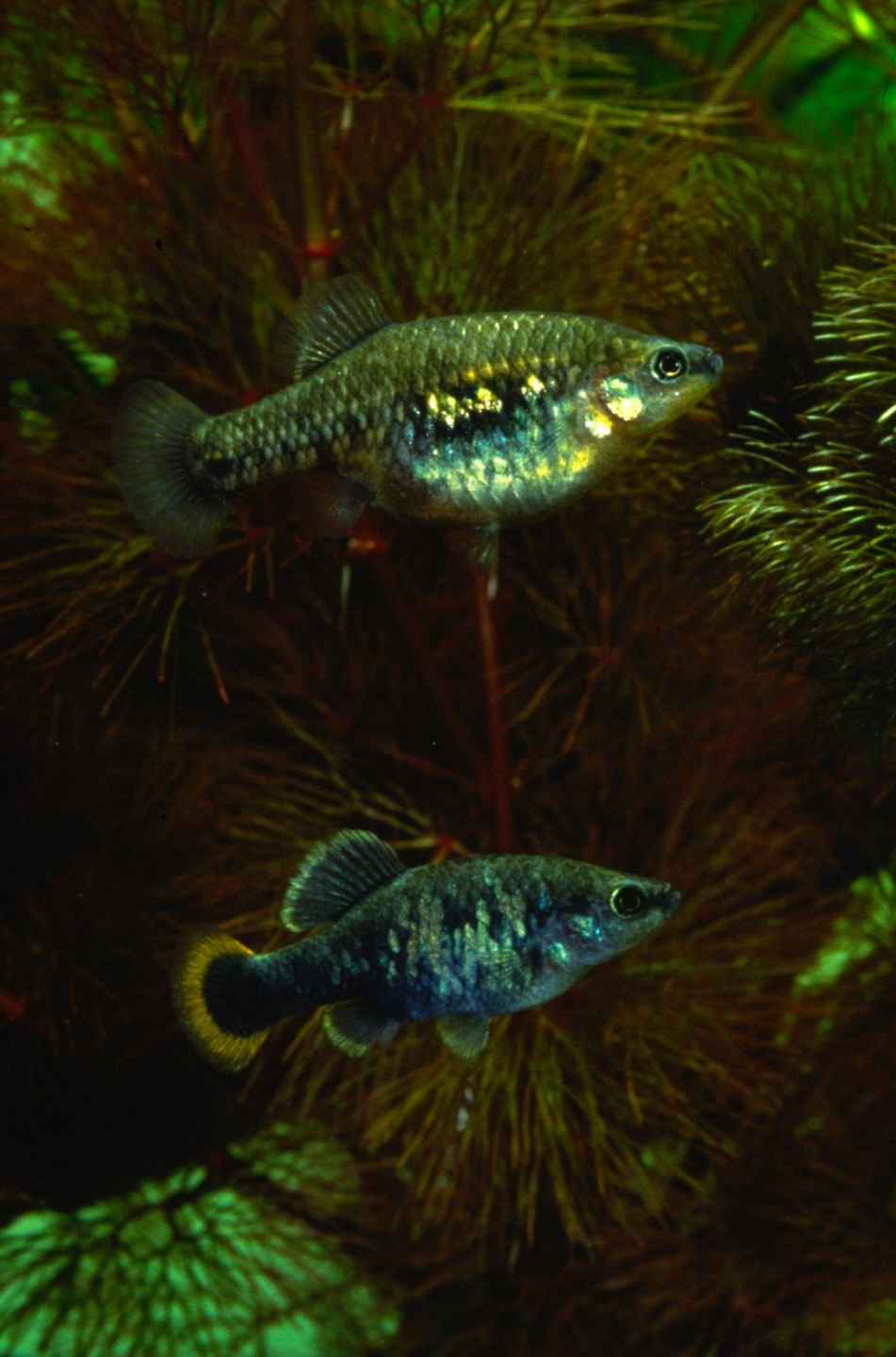
km
50 0 50 100 150



Local extinctions







- Described in 1998, extinct
- Extinct in the wild
- New population was found
- Change the status
- The place was known only by a few people and disappeared
- Extinct in the wild

1998



2008







Back to the wild



Four-years-project

First year: habitat characterization

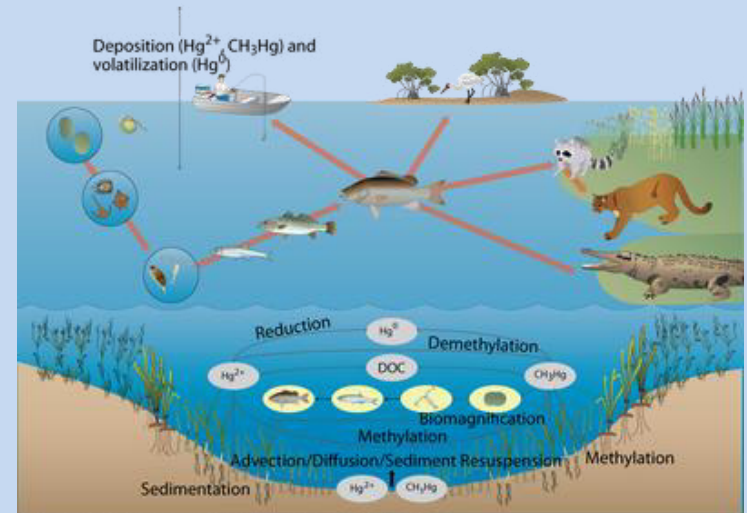


30 physical and chemical parameters

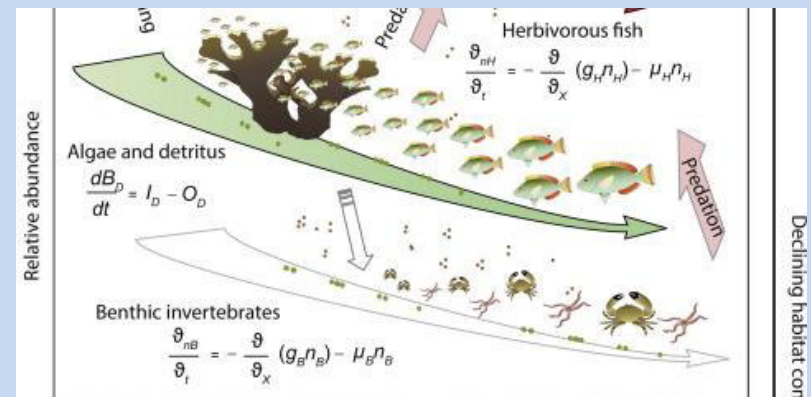
Limnological characterization

Environmental quality index and ichthyological relevant data

- Geomorphologic variables
- Aquatic vegetation
- Potential food sources
- Fish community structure
- Food chain of the fish community
- Growth and reproduction
- Parasitological studies



Conceptual diagram illustrating mercury biomagnification within the aquatic food chain. Diagram courtesy of the Integration and Application Network (ian.umces.edu), University of Maryland Center for Environmental Science. Source: Kruczynski, W.L., and P.J. Fletcher (eds.), 2012. Tropical Connections: South Florida's marine environment. IAN Press, University of Maryland Center for Environmental Science, Cambridge, Maryland. 492 pp.



A word cloud centered around the words "BIOLOGICAL" and "INTEGRITY". The words are arranged in a circular pattern, with "BIOLOGICAL" and "INTEGRITY" being the largest and most prominent. Other words include "ENVIRONMENT", "APPEARED", "REFINE", "DEBATE", "CONTRIBUTE", "ADAPTIVE", "ORIGINAL", "UTILIZING", "SYSTEM", "QUANTIFY", "MAINTAINED", "COMPARABLE", "ALTERATIONS", "INTERACTIONS", "SUPPORTING", "ECOSYSTEM", "RICHNESS", "FUNCTIONAL", "IMPOSED", "MEASUREMENT", "PROCESSES", "REFERS", "COMPOSITION", "EVOLUTIONARY", "IMPLICATIONS", "ORGANISMS", "INVASIVE", "CORRIDOR", "ACADEMIA", "ASSEMBLED", "PORTAL", "INFLUENCE", "COMPLEXITIES", "CAPABILITY", "SCALES", "DIVERSITY", "TERM", "INDEX", "PRIMARYLY", "DERIVED", "NATURAL", "BALANCED", "ASSUMPTION", "COMMUNITY", "PRISTINE", "HOLDINGS", "ALTERED", "ACCEPTED", "AQUATIC", "VOCABULARY", "TECHNICALLY", "HABITAT", "QUANTITATIVELY", "DEFINITION", "EVALUATE", "RELATIVE", "CONCEPT", "SPECIES", "AMENDMENTS", "MONITORING", "ADGE", "FRAGMENTATION", "DECLINE", "PRESERVED", "REGION", "MEASURE", "INDICATOR", "HEAVILY", "IMPAIRED", "METHODS", "BASELINE", "HYBRIDS", "BIOLOGICAL".



Environmental education facilities in the Interpretative Site “Guachimontones”.





Environmental education program



Reintroducing tequila

Understanding tequila



- Water quality parameters
- Potential food in the water
- Stomach contents analysis, fecundity index
- Population trends and other biological parameters of interest (growth rate, recruitment rate, body mass, etc.)

Reintroducing tequila (year three)

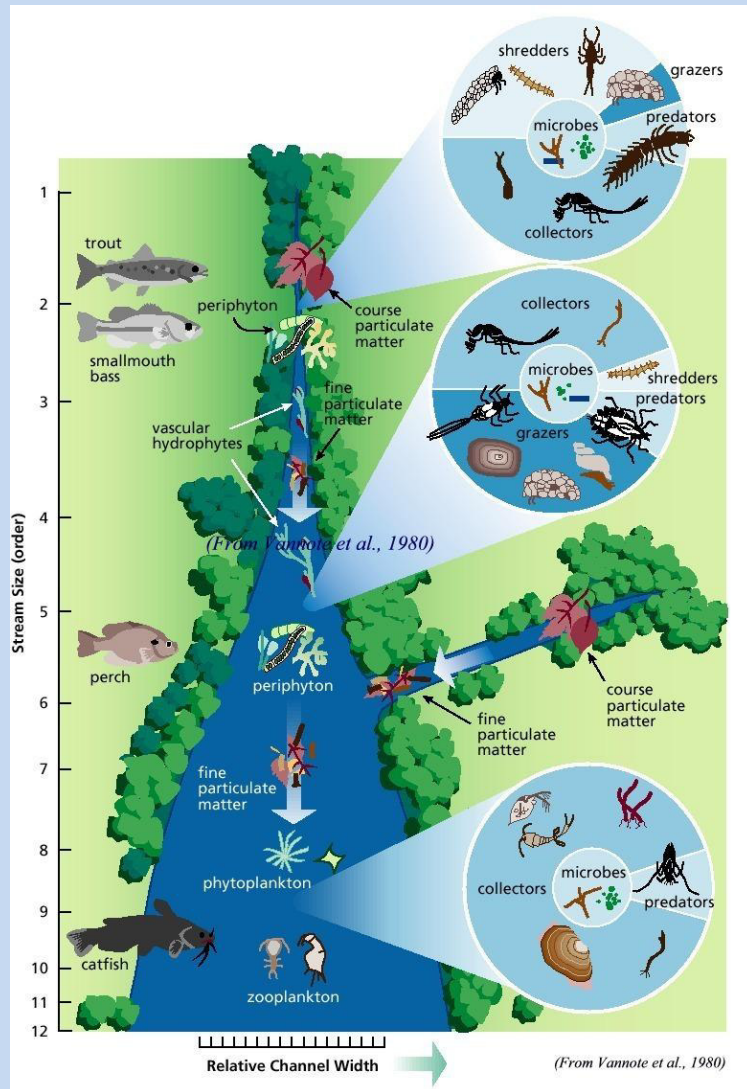
The physical, chemical and biological data will continuously be collected

Also the education program will be running during year two and three.



Following tequila (year four)

The physical, chemical and biological data will continuously be collected



Bienvenido de regreso



Welcome back