



# Non- conventional fishing methods

## Electric fishing

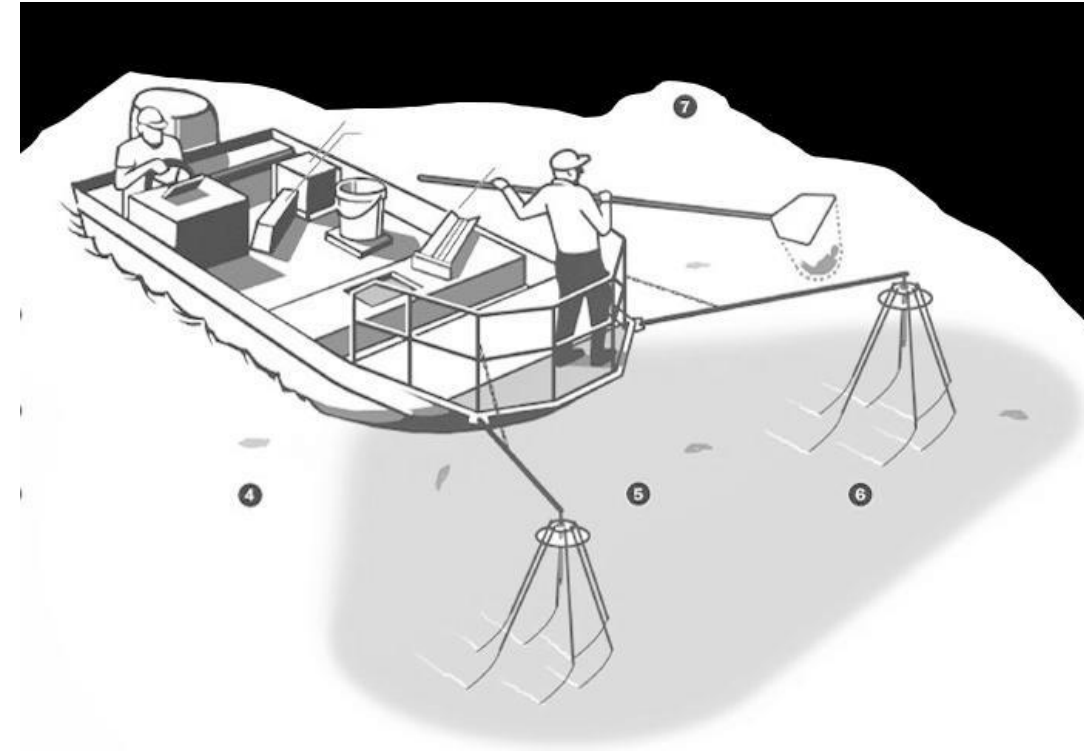
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# Electric fishing

- Electrofishing is a fishing technique that uses **direct current (DC) electricity** flowing between a submerged cathode and anode.
- This **affects the movements** of nearby fish so that they swim toward the anode, where they can be caught.



# Electric fishing

- Electrofishing is a common scientific survey method used to sample fish populations to determine abundance, density and species composition.
- When performed correctly, electrofishing results in no permanent harm to the fish, which return to their natural mobility state in as little as two minutes after being caught.



# Electric fishing

- Electrofishing depend on on two electrodes which deliver direct current (DC) at high-voltage from the anode to the cathode through the water.
- When a fish encounters, it becomes affected by the electricity.
- Usually pulsed direct current (DC) is applied, which causes **galvanotaxis** in the fish.
- **Galvanotaxis is uncontrolled muscular spasm** that results in the fish swimming towards the anode.
- At **least two people are required** for an effective electrofishing crew: one to operate the anode, and the other to catch the shocked fish with a dip net.



# There are three types of electrofishers

1. Backpack models
2. Tote barge models
3. Boat mounted models / Stun boat



# There are three types of electrofishers

## 1. Backpack models:

- Backpack electrofisher generators are either battery or gas powered.
- They employ a transformer to pulse the current before it is delivered into the water.
- The anode is located at the end of a long, two meter pole and is usually in the form of a ring.
- The cathode is a long, three-meter braided steel cable that trails behind the operator.
- The electrofisher is operated by a deadman's switch on the anode pole.



# There are three types of electrofishers

## 2. Tote barge models:

- It operate similarly to backpack electrofishers, with the exception that the generator is located on a floating barge instead of on a backpack.
- Often the barge can be left stationary on the shore and longer cathodes and anodes allow the crew to sample large areas.
- Barge electrofishers often employ gas-powered generators since a user does not have to carry the extra weight on his or her back.



# There are three types of electrofishers

## 3. Boat electrofishing:

- Boat electrofishing, the boat itself is the cathode, and the anode(s) are generally mounted off the bow.
- The stunned fish swim toward the anode, where they are caught alive using a dip net.



# Electric fishing

- **Electrofishing is used by multiple government agencies.**
- **It may be illegal to use it as a form of recreational (entertaining) fishing.**
- **This method can be considered poaching. For example, in Florida, as in many other states, it is illegal for recreational use.**
- **Some time Electrofishing is potentially dangerous, or even mortal.**

Thank  
You

I'M NOT REALLY INTO ELECTROFISHING  
THESE DAYS. I'M MORE ABOUT  
POST-DUBSTEP NU-FISHING.

