Only Particle Motion

Fishes without a gas bubble such as a swim bladder (e.g., Elasmobranchii; Pleuronectiformes)

Fishes with a swim bladder distant from the ear (e.g., Salmoniformes, Scombridae)

Fishes with a swim bladder that extends to close to the ear, but is not connected to it (e.g., Gadiformes)

Fishes with a gas bubble near, but not connected to the ear, as well as having a swim bladder (e.g., Anabantidae)

Fishes with gas bubbles associated with the ear (e.g., Mormyridae, Clupeiformes), as well as having a swim bladder

Fishes with a swim bladder that touches or connects to the ear (e.g., Holocentridae)

Fishes with mechanical connections between the swim bladder and the ear (e.g., Cypriniformes; Siluriformes)

Extensive use of Sound Pressure

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